NOAA Data Report ERL PMEL-61a

CHEMICAL AND HYDROGRAPHIC MEASUREMENTS IN THE EASTERN PACIFIC DURING THE CGC94 EXPEDITION (WOCE SECTION P18)

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UNITED STATES DEPARTMENT OF COMMERCE

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NOTE: Due to an error in the data tables, this is a revised version of the NOAA Data Report ERL PMEL-61 titled "Chemical and Hydrographic Measurements in the Eastern Pacific During the CGC94 Expedition (WOCE Section P18)."

This new version has been given a different report number: NOAA Data Report ERL PMEL-61a.

Please disregard NOAA Data Report ERL PMEL-61.

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REMOTE ACCESS TO DATA LISTED IN THIS REPORT

The data presented in this report is available on a computerized Remote Bulletin Board System (RBIS), Internet FTP, and the World Wide Web (WWW). For information regarding electronic access to the data sets contact:

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Contoured sections of the data are also available at http://www.pmel.noaa.gov/CO2/

The evaluation of the CGC94 dissolved oxygen, nutrients, and CFC measurements by the WOCE Data Quality Experts and WOCE Hydrographic Office has not been completed. After completion of this process, revised versions of these data will be available from the WOCE Hydrographic Office, or by contacting bullister@pmel.noaa.gov.

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CONTENTS

PAGE

FIGURES

TABLES

Chemical and Hydrographic Measurements in the Eastern Pacific During the CGC94 Expedition (WOCE Section P18)

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ABSTRACT. NOAA's Climate and Global Change (CGC) Program sponsored a major cooperative effort in the eastern Pacific along WOCE Hydrographic Programme Line P18 from 26 January to 27 April 1994. The first leg (Leg 1) consisted of a transit from Seattle to Punta Arenas, Chile. The second leg (Leg 2) covered hydrographic stations from 67°S, 103°W to 27°S, 103°W. The third leg (Leg 3) included stations between 26.5°S, 103°W and 23°N, 110°W. Full depth CTD/rosette casts were made to the ocean bottom at a nominal spacing of 30 miles on Legs 2 and 3. Water samples were collected on the casts for analyses of concentrations of salinity, DO, CFC, fCO_2, DIC, TAlk, pH, TOC/TON, $^{13}C/^{12}C$ isotopes, and nutrients. Biological parameters were also sampled, and included biogenic Si, chlorophyll-a, phaeopigments, and primary productivity.

1. INTRODUCTION

Human activity is rapidly changing the trace gas composition of the earth's atmosphere, causing the greenhouse warming effect from excess carbon dioxide (CO_2) along with other trace gas species such as chlorofluorocarbons, methane, and nitrous oxide. These gases play a critical role in controlling the earth's climate because they increase the infrared opacity of the atmosphere, causing the planetary surface to warm. Of all the anthropogenic CO_2 that has ever been produced, only about half remains in the atmosphere; the global ocean is considered to be the dominant sink for the "missing" CO_2.

The National Oceanic and Atmospheric Administration's (NOAA) Ocean-Atmosphere Carbon Exchange Study (OACES) Program, and the Ocean Tracers and Hydrography Program, in cooperation with the World Ocean Circulation Experiment (WOCE) and the U.S. Joint Global Ocean Flux Study (U.S. JGOFS), participated in a multifaceted oceanographic research cruise conducted aboard the NOAA ship *Discoverer* from 26 January 1994 to 27 April 1994. This hydrographic section is identified as P18 in the WOCE Implementation Plan. The objective of this effort was to 1) describe water properties and relate them to circulation processes throughout the water column in the eastern Pacific Ocean; 2) determine the souces and sinks of carbon dioxide along a line between 103° and 110°W; 3) study the invasion of the ocean by chlorofluorocarbons;

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and 4) provide a high-quality set of baseline measurements for the continuing evaluation of changes in ocean content of dissolved gasses, water properties, and circulation. Underway Acoustic Doppler Current Profiler (ADCP) measurements were made along the track, and Autonomous Lagrangian Circulation Explorer (ALACE) floats were released at designated positions. In addition, underway measurements of surface pH, fCO_2, nitrate (by wet chemistry), photosynthetically available radiation, and fluorescence were collected on a continuous basis throughout the cruise. This data report summarizes the measurements of chlorofluorocarbons (CFC), dissolved inorganic carbon (DIC), CO_2 fugacity (fCO_2), total alkalinity (TAlk), total organic carbon (TOC), pH, $^{13}C/^{12}C$ isotopes ($\delta^{13}C$), silicate ($Si(OH)_4$), biogenic silica, phosphate (PO_4^{3-}) nitrate (NO_3^-), nitrite (NO_2^-), total organic nitrogen (TON), dissolved oxygen (DO), chlorophyll-*a*, phaeopigments, primary productivity, temperature, and salinity. The tabulated bottle data, beam attenuation due to particles, and CTD temperature and salinity data from the CTD casts are given in Appendix A; bottle data from Kevlar™ casts (biological parameters) are presented in Appendix B. This report does not address the underway measurements or the data from the ALACE floats.

1.1 Cruise Itinerary

The first leg (Leg 1a, 1b) departed Seattle, Washington, on 26 January 1994 and performed two shallow test casts in Puget Sound to check equipment. The ship then steamed to the East Blanco Depression off the Washington/Oregon coast, where significant volcanic activity had been detected. A total of six water column CTD/rosette stations were occupied at this site. The ship then proceeded to San Francisco for a touch-and-go on 30 January 1994; after disembarking several scientists, *Discoverer* left for Punta Arenas, Chile. No hydrographic data from Leg 1 are included in this report. Underway measurements were conducted for pH, pCO_2, nitrous oxide, methyl bromide, salinity, and temperature from the ship's underway sea water system (Lobert *et al*., 1996; Wanninkhof *et al*., in prep.).

The second leg (Leg 2) departed Punta Arenas on 22 February 1994. The ship steamed from the entrance of the Strait of Magellan to the first station at 103°W, 67°S; two test casts were conducted en route. Seventy-eight stations were occupied along 103°W; following WOCE Hydrographic Programme (WHP) protocol, station spacing was 30 nautical miles (nm). Between 58°30′S and 48°S, station spacing was increased to 40 nm due to time constraints. The last station occupied on Leg 2 was at 103°W, 26°S, and the ship inported at Isla de Pascua, Chile (Easter Island) on 24 March.

The third leg (Leg 3) departed Isla de Pascua on 29 March 1994 and proceeded to 103°W, 25°30′S; 30-nm spacing was resumed along 103°W to 10°S. Stations were occupied at 40-nm intervals along a dogleg from 103°W, 10°S to 110°20′W, 5°S, over the East Pacific Rise. Spacing of 30 nm was resumed from 5°S to 3°S along 110°20′W. Station spacing was reduced to 20-nm from 3°S to 3°N to obtain better resolution over the equatorial region. From 3°N to 22°30′N, stations were occupied at 30-nm intervals, except from 12°N to 16°N, where spacing was again increased to 40 nm. A gradual shift in longitude from 110°20′W to 110°W was made between 8°N and 10°N. North of 22°30′N, station spacing was reduced to as little as 3 nm over the rapidly shoaling bathymetry approaching Cabo San Lucas, Mexico. The last station occupied was at 110°W, 22°51′N, in less than 200 m of water, and the cruise ended in San Diego on 27 April 1994. Station locations (CTD) and dates are contained in Fig. 1 and Table 1.

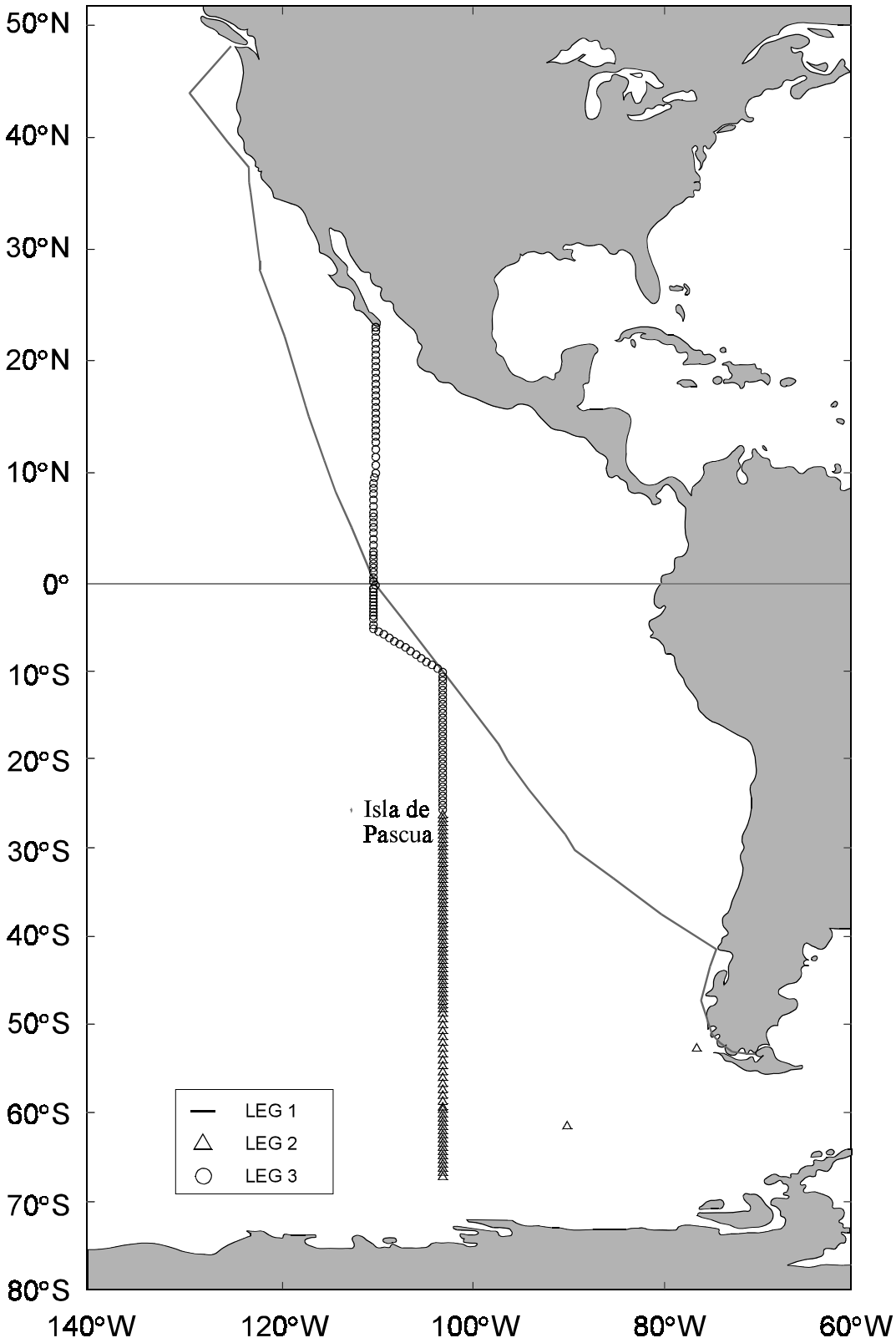

Fig. 1. CTD station locations.

Table 1. CTD station locations and dates during the eastern Pacific 1994 cruise.

Station	Latitude	Longitude	Date	Bottom Depth (m)
Leg 2				
8(test)	52° 22.9′ S	76° 22.0′ W	23 Feb 94	1888
9(test)	61° 13.2′ S	90° 10.9′ W	25 Feb 94	4917
10	66° 59.8′ S	103° 0.2′ W	27 Feb 94	4734
11	66° 29.8′ S	102° 59.9′ W	28 Feb 94	4807
12	66° 0.0′ S	102° 59.8′ W	28 Feb 94	4856
13	65° 29.9′ S	102° 59.9′ W	28 Feb 94	4900
14	64° 59.9′ S	103° 0.0′ W	28 Feb 94	4949
15	64° 29.9′ S	102° 59.9′ W	1 Mar 94	4979
16	63° 59.5′ S	102° 59.1′ W	1 Mar 94	5050
17	63° 30.0′ S	102° 59.6′ W	2 Mar 94	4987
18	63° 0.1′ S	102° 58.4′ W	2 Mar 94	5037
19	62° 29.7′ S	103° 0.5′ W	2 Mar 94	5041
20	61° 59.8′ S	102° 59.8′ W	2 Mar 94	5079
21	61° 29.2′ S	102° 59.3′ W	3 Mar 94	5143
22	61° 0.5′ S	103° 0.3′ W	3 Mar 94	4975
23	60° 30.9′ S	102° 57.1′ W	3 Mar 94	5240
24	60° 0.2′ S	103° 0.0′ W	4 Mar 94	5100
25	59° 30.3′ S	103° 1.6′ W	4 Mar 94	4931
26	59° 0.0′ S	103° 0.9′ W	4 Mar 94	4700
27	58° 30.3′ S	102° 59.7′ W	5 Mar 94	4796
28	57° 49.6′ S	102° 59.4′ W	5 Mar 94	4700
29	57° 10.3′ S	103° 0.1′ W	6 Mar 94	4100
30	56° 31.5′ S	103° 4.9′ W	7 Mar 94	4900
31	55° 50.2′ S	102° 59.9′ W	8 Mar 94	4662
32	55° 9.5′ S	102° 59.5′ W	8 Mar 94	4523
33	54° 30.0′ S	103° 0.0′ W	8 Mar 94	4100
34	53° 49.9′ S	102° 59.0′ W	8 Mar 94	4260
35	53° 10.0′ S	103° 0.9′ W	9 Mar 94	4100
36	52° 30.4′ S	103° 0.4′ W	9 Mar 94	4433
37	51° 50.0′ S	103° 0.0′ W	9 Mar 94	4048
38	51° 10.0′ S	103° 0.0′ W	10 Mar 94	3758
39	50° 30.0′ S	103° 0.5′ W	10 Mar 94	5180
40	49° 50.0′ S	103° 0.1′ W	10 Mar 94	4200
41	49° 9.8′ S	103° 0.3′ W	11 Mar 94	4272
42	48° 29.8′ S	102° 59.7′ W	11 Mar 94	4205
43	47° 59.8′ S	103° 0.4′ W	11 Mar 94	4085
44	47° 30.0′ S	103° 0.1′ W	11 Mar 94	4300
45	47° 0.0′ S	102° 59.8′ W	12 Mar 94	4017
46	46° 30.0′ S	103° 0.0′ W	12 Mar 94	3854
47	46° 0.0′ S	103° 0.0′ W	12 Mar 94	4437
48	45° 28.9′ S	102° 58.4′ W	12 Mar 94	4035
49	45° 0.1′ S	102° 59.9′ W	13 Mar 94	3740
50	44° 29.5′ S	102° 59.7′ W	13 Mar 94	3900
51	43° 59.2′ S	102° 59.8′ W	13 Mar 94	4100
52	43° 30.1′ S	103° 0.9′ W	13 Mar 94	3750

Table 1. (continued)

Station	Latitude	Longitude	Date	Bottom Depth (m)
Leg 2 (continued)				
53	43° 0.2′ S	102° 59.9′ W	14 Mar 94	3790
54	42° 29.5′ S	102° 59.6′ W	14 Mar 94	3791
55	41° 59.7′ S	103° 0.2′ W	14 Mar 94	3672
56	41° 29.6′ S	102° 59.5′ W	15 Mar 94	3780
57	41° 0.0′ S	103° 0.0′ W	15 Mar 94	4803
58	40° 30.2′ S	102° 59.2′ W	15 Mar 94	3930
59	40° 0.2′ S	102° 58.8′ W	15 Mar 94	4058
60	39° 29.9′ S	102° 59.9′ W	16 Mar 94	3917
61	39° 0.0′ S	103° 0.2′ W	16 Mar 94	3834
62	38° 30.6′ S	103° 0.9′ W	16 Mar 94	3990
63	37° 59.9′ S	102° 59.9′ W	16 Mar 94	4143
64	37° 29.9′ S	102° 59.0′ W	17 Mar 94	3498
65	36° 59.7′ S	103° 0.3′ W	17 Mar 94	4050
66	36° 29.9′ S	103° 0.1′ W	17 Mar 94	3479
67	35° 59.6′ S	102° 59.5′ W	17 Mar 94	4483
68	35° 30.0′ S	103° 0.0′ W	18 Mar 94	3099
69	34° 59.9′ S	103° 0.2′ W	18 Mar 94	3600
70	34° 30.8′ S	103° 0.2′ W	18 Mar 94	3434
71	34° 0.4′ S	103° 0.0′ W	18 Mar 94	3730
72	33° 30.0′ S	102° 59.9′ W	19 Mar 94	3592
73	32° 59.7′ S	102° 59.9′ W	19 Mar 94	3682
74	32° 30.0′ S	103° 0.0′ W	19 Mar 94	3569
75	31° 59.7′ S	102° 59.9′ W	19 Mar 94	3830
76	31° 29.5′ S	103° 0.0′ W	20 Mar 94	3532
77	31° 0.1′ S	103° 0.4′ W	20 Mar 94	3489
78	30° 30.1′ S	103° 0.9′ W	20 Mar 94	3410
79	30° 0.0′ S	103° 0.0′ W	21 Mar 94	3586
80	29° 29.5′ S	103° 0.3′ W	21 Mar 94	3400
81	29° 0.1′ S	103° 0.8′ W	21 Mar 94	3546
82	28° 29.7′ S	102° 59.8′ W	22 Mar 94	3287
83	28° 1.0′ S	103° 0.9′ W	22 Mar 94	3347
84	27° 30.7′ S	103° 1.1′ W	22 Mar 94	3059
85	26° 55.2′ S	103° 0.5′ W	22 Mar 94	3139
86	26° 29.7′ S	103° 0.0′ W	23 Mar 94	3463
87	25° 59.4′ S	103° 0.3′ W	23 Mar 94	3454
Leg 3				
88	25° 29.9′ S	103° 0.0′ W	29 Mar 94	3326
89	24° 59.3′ S	103° 0.1′ W	29 Mar 94	3844
90	24° 30.0′ S	103° 0.0′ W	29 Mar 94	3584
91	23° 59.9′ S	103° 0.1′ W	29 Mar 94	3856
92	23° 29.8′ S	102° 59.7′ W	30 Mar 94	3893
93	23° 0.0′ S	102° 59.8′ W	30 Mar 94	3900
94	22° 29.9′ S	103° 0.0′ W	30 Mar 94	4009
95	21° 59.6′ S	102° 59.4 W	30 Mar 94	3953

Table 1. (continued)

Station	Latitude	Longitude	Date	Bottom Depth (m)
Leg 3 (continued)				
96	21° 30.0′ S	102° 59.9′ W	31 Mar 94	3993
97	20° 59.9′ S	103° 0.1′ W	31 Mar 94	4079
98	20° 30.1′ S	103° 0.1′ W	31 Mar 94	4067
99	20° 0.0′ S	103° 0.0′ W	1 Apr 94	4108
100	19° 30.1′ S	102° 59.5′ W	1 Apr 94	4110
101	18° 59.9′ S	103° 0.1′ W	1 Apr 94	4094
102	18° 30.0′ S	103° 0.0′ W	2 Apr 94	4047
103	17° 59.9′ S	103° 0.2′ W	2 Apr 94	4186
104	17° 29.9′ S	103° 0.4′ W	2 Apr 94	4043
105	16° 59.9′ S	102° 59.7′ W	2 Apr 94	3905
106	16° 29.9′ S	103° 0.0′ W	3 Apr 94	3114
107	16° 0.0′ S	103° 0.0′ W	3 Apr 94	3785
108	15° 30.1′ S	103° 0.1′ W	3 Apr 94	3727
109	15° 0.0′ S	102° 59.9′ W	3 Apr 94	4203
110	14° 30.2′ S	102° 59.4′ W	4 Apr 94	3992
111	14° 0.0′ S	102° 59.6′ W	4 Apr 94	4177
112	13° 29.9′ S	103° 0.2′ W	4 Apr 94	4127
113	13° 0.6′ S	103° 0.5′ W	5 Apr 94	4320
114	12° 30.1′ S	103° 0.1′ W	5 Apr 94	4184
115	12° 0.1′ S	103° 0.1′ W	5 Apr 94	4352
116	11° 30.3′ S	103° 0.0′ W	5 Apr 94	4096
117	11° 0.0′ S	103° 0.8′ W	6 Apr 94	4276
118	10° 30.4′ S	103° 0.1′ W	6 Apr 94	4682
119	10° 0.2′ S	103° 0.0′ W	6 Apr 94	4560
120	9° 38.9′ S	103° 36.6′ W	7 Apr 94	4300
121	9° 14.2′ S	104° 8.1′ W	7 Apr 94	4107
122	8° 51.2 S	104° 41.6′ W	7 Apr 94	3713
123	8° 27.8′ S	105° 15.6′ W	7 Apr 94	3655
124	8° 4.7′ S	105° 49.6′ W	8 Apr 94	3993
125	7° 42.0′ S	106° 23.0′ W	8 Apr 94	3245
126	7° 18.7′ S	106° 56.6′ W	8 Apr 94	3181
127	6° 56.4′ S	107° 30.7′ W	9 Apr 94	3179
128	6° 33.6′ S	108° 4.4′ W	9 Apr 94	3286
129	6° 9.3′ S	108° 38.5′ W	9 Apr 94	3300
130	5° 46.4′ S	109° 12.2′ W	9 Apr 94	3474
131	5° 23.6′ S	109° 46.0′ W	10 Apr 94	3800
132	5° 0.1′ S	110° 20.1′ W	10 Apr 94	3448
133	4° 29.7′ S	110° 19.6′ W	10 Apr 94	3810
134	4° 0.2′ S	110° 19.8′ W	10 Apr 94	3873
135	3° 30.0′ S	110° 20.0′ W	11 Apr 94	3915
136	3° 0.0′ S	110° 20.0′ W	11 Apr 94	3914
137	2° 40.0′ S	110° 20.0′ W	11 Apr 94	3900
138	2° 20.0′ S	110° 20.0′ W	11 Apr 94	4616
139	2° 0.8′ S	110° 20.5′ W	12 Apr 94	3978
140	1° 40.0′ S	110° 19.9′ W	12 Apr 94	3907

Table 1. (continued)

Station	Latitude	Longitude	Date	Bottom Depth (m)
Leg 3 (continued)				
141	1° 20.0′ S	110° 20.1′ W	12 Apr 94	3900
142	1° 0.1′ S	110° 19.7′ W	13 Apr 94	4049
143	0° 40.3′ S	110° 19.8′ W	13 Apr 94	3810
144	0° 20.2′ S	110° 19.6′ W	13 Apr 94	3811
145	0° 0.0′ N	110° 0.0′ W	13 Apr 94	3784
146	0° 20.1′ N	110° 20.0′ W	14 Apr 94	3850
147	0° 39.9′ N	110° 20.2′ W	14 Apr 94	3851
148	1° 0.0′ N	110° 20.0′ W	14 Apr 94	3700
149	1° 20.0′ N	110° 20.0′ W	14 Apr 94	3772
150	1° 40.6′ N	110° 20.2′ W	15 Apr 94	3834
151	2° 0.2′ N	110° 20.0′ W	15 Apr 94	3835
152	2° 20.0′ N	110° 20.0′ W	15 Apr 94	3700
153	2° 40.0′ N	110° 19.9′ W	15 Apr 94	3761
154	3° 0.0′ N	110° 20.0′ W	15 Apr 94	3770
155	3° 30.0′ N	110° 20.0′ W	16 Apr 94	3918
156	4° 0.1′ N	110° 20.1′ W	16 Apr 94	3841
157	4° 30.0′ N	110° 20.0′ W	16 Apr 94	3984
158	4° 59.7′ N	110° 20.0′ W	17 Apr 94	4196
159	5° 30.0′ N	110° 20.0′ W	17 Apr 94	3935
160	6° 0.0′ N	110° 20.0′ W	17 Apr 94	3850
161	6° 30.0′ N	110° 20.0′ W	17 Apr 94	3254
162	7° 0.0′ N	110° 20.4′ W	18 Apr 94	3840
163	7° 30.0′ N	110° 20.1′ W	18 Apr 94	3952
164	7° 59.9′ N	110° 20.2′ W	18 Apr 94	3943
165	8° 30.0′ N	110° 15.1′ W	18 Apr 94	3900
166	9° 0.0′ N	110° 9.9′ W	19 Apr 94	3672
167	9° 30.7′ N	110° 5.1′ W	19 Apr 94	3471
168	10° 0.0′ N	110° 0.0′ W	19 Apr 94	3316
169	10° 40.0′ N	110° 0.0′ W	20 Apr 94	3853
170	11° 20.0′ N	110° 0.0′ W	20 Apr 94	3500
171	12° 0.1′ N	110° 0.0′ W	20 Apr 94	3300
172	12° 40.0′ N	110° 0.0′ W	20 Apr 94	4157
173	13° 20.0′ N	109° 59.9′ W	21 Apr 94	4100
174	14° 0.1′ N	109° 59.9′ ′W	21 Apr 94	3284
175	14° 29.8′ N	109° 59.8′ W	21 Apr 94	3724
176	15° 0.0′ N	110° 0.0′ W	21 Apr 94	3792
177	15° 29.8′ N	109° 59.7′ W	22 Apr 94	3739
178	16° 0.1′ N	110° 0.0′ W	22 Apr 94	3307
179	16° 29.9′ N	110° 0.1′ W	22 Apr 94	3397
180	17° 0.0′ N	110° 0.0′ W	22 Apr 94	3520
181	17° 30.1′ N	109° 59.9′ W	23 Apr 94	3485
182	18° 0.0′ N	110° 0.0′ W	23 Apr 94	3265
183	18° 30.0′ N	110° 0.0′ W	23 Apr 94	3440
184	19° 0.0′ N	110° 0.0′ W	23 Apr 94	3372
185	19° 30.0′ N	110° 0.0′ W	24 Apr 94	3238

Table 1. (continued)

Station	Latitude	Longitude	Date	Bottom Depth (m)
Leg 3 (continued)				
186	20° 0.1′ N	110° 0.0′ W	24 Apr 94	2627
187	20° 30.0′ N	110° 0.0′ W	24 Apr 94	3100
188	21° 0.0′ N	110° 0.0′ W	24 Apr 94	3234
189	21° 29 .9′ N	110° 0.1′ W	24 Apr 94	3203
190	21° 59.9′ N	110° 0.0′ W	25 Apr 94	3142
191	22° 29.7′ N	109° 59.7′ W	25 Apr 94	3081
192	22° 44.0′ N	110° 0.4′ W	25 Apr 94	1997
193	22° 47.8′ N	110° 0.3′ W	25 Apr 94	967
194	22° 51.1′ N	110° 0.0′ W	25 Apr 94	190

2. SAMPLING AND ANALYTICAL METHODS

2.1 CTD Cast Operations

CTD/DO measurements were made using one of two Sea Bird 9plus CTDs, each equipped with a fixed pumped temperature–conductivity (TC) sensor pair. A mobile pumped TC pair with dissolved oxygen sensor was mounted on whichever CTD was in use so that dual TC measurements and dissolved oxygen measurements were always collected. The TC pairs were monitored for calibration drift and shifts by examining the differences between the two pairs on each CTD and comparing CTD salinities with bottle salinity measurements.

The primary CTD package utilized PMEL's Sea Bird 9plus CTD (S/N 09P8431-0315) (sampling rate 24 Hz) mounted in a 36-position frame. Water samples were collected using a General Oceanics 36-bottle rosette and 10-liter PVC bottles, and was used for the majority of 194 casts. The secondary package was deployed during foul weather at 29 stations, and used PMEL's Sea Bird 9plus CTD (S/N 329053-0209) (sampling rate 24 Hz) mounted in a 24-position frame, and 4-liter bottles.

The 4- and 10-liter sample bottles mounted on the CTD rosette frames were specially designed Niskin™-type PVC bottles (sometimes referred to as "Bullister" bottles) with internal epoxy-coated stainless steel springs. The O-rings were mounted in a dovetail-shaped groove in the endcaps and sealed against the smooth, flat ends of the bottle. This minimized contact of the seawater sample with the O-rings after closure, and reduced CFC contamination due to O-rings.

All pre- and post-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington. Post-cruise data processing was completed at PMEL (McTaggart *et al.*, 1996). Final data are 1-dbar averages in EPIC format (Soreide *et al.*, 1995).

Samples from the CTD casts were collected from the PVC bottles in the following order: chlorofluorocarbons (CFC), helium (He), dissolved oxygen (DO), fugacity of CO_2 (fCO_2), pH, dissolved inorganic carbon (DIC) and total alkalinity (TAlk), tritium, $^{13}C/^{12}C$ isotopes ($\delta^{13}C$), oxygen isotopes, nutrients, total organic carbon (TOC) and nitrogen (TON), chlorophyll-a, phaeopigments, and salinities. This report does not address He, tritium, or oxygen isotope measurements.

2.1.1 Chlorofluorocarbons (CFC)

CFC samples were collected from the PVC bottles before any other samples and were drawn into 100-mL glass syringes. The syringes were sealed with nickel-plated metal stopcocks and positive pressure was maintained with a rubber band. The syringes were stored in a bath of clean seawater until analysis to reduce contamination from the atmosphere.

The bath and the CFC analytical equipment were set up in a seagoing container modified for use as a laboratory. This removed the system from the interior of the ship, which frequently experiences high levels of CFC contamination from air conditioners, water coolers, etc.

The analytical system used for the CFCs was a purge and trap, gas chromatograph/electron capture detector (gc/ECD) system described in Bullister and Weiss (1988). The CFCs were stripped

from an aliquot of the sample with clean carrier gas (95:5 argon:methane), dried over $Mg(ClO_4)_2$, and concentrated on a cold trap of Porasil C™ and Porapak T™. The contents of the trap were injected onto a precolumn of Porasil C™ which vented late unwanted peaks while transferring the gases of interest to a longer Porasil C™ column for final separation. The gases exited the analytical column into an electron capture detector.

About once an hour, a single loop injection of standard was analyzed to monitor changes in sensitivity of the detector. Every few days a number of standard volumes were analyzed to determine changes in sensitivity over a range of responses. The responses of water samples could then be compared to a curve fit through these calibration points. The standard tank used during this cruise (#32386) was calibrated against primary tank #36743 and values assigned on the SIO1986 scale. The concentrations of water samples are reported in picomoles CFC per kilogram (pmol/kg) of seawater.

Sampling blanks may be determined by several methods, including measuring water samples from regions where CFCs have not yet penetrated, and by water bottle incubation tests. Using these methods, the sampling blanks are estimated to have ranged from 0.0048 to 0.0086 pmol/kg for CFC-11, and were 0.0025 pmol/kg or less for CFC-12. During the first 10 stations of Leg 2, the PVC bottles were slightly contaminated with respect to CFC-11. This caused a high variability in the CFC-11/CFC-12 ratio for the deep water samples and, as a result, a larger than normal number of the measurements were flagged as bad or questionable. As the level of contamination in the 10-L bottles declined, the number of flagged samples diminished.

At nearly every station, one or more sets of replicate pairs were drawn and sampled for CFCs. We estimated measurement precision to be about 0.005 pmol/kg or 1% (whichever was greater) for both CFC-11 and CFC-12.

2.1.2 Dissolved Oxygen (DO)

DO samples were drawn from the PVC bottles immediately after CFC and He samples, and were collected in calibrated iodine determination flasks (Corning™ 5400-125) according to the following procedure. The sampling tube was attached to the PVC bottle petcock and the other end inserted into the flask. Seawater was allowed to flow freely into the flask, and the tube was tapped to remove bubbles. The flask was then inverted and the tube pinched slightly to reduce flow while allowing water to drain from the flask. A water sheet formed on the inside of the flask, the sampling tube was pinched off, and the flask was drained and then put right side up. The sampling tube was slowly released to prevent turbulent flow, and the flask was allowed to fill. Fill time was measured to ensure overflow of at least two flask volumes. Typical fill time was 7 seconds.

After a sample was drawn, reagents were introduced quickly using a calibrated Brinkmann™ 1.0-mL Fixed Volume Dispensette repipette with tip lengthened by clear polyolefin shrink tubing. Distilled water or, later, seawater, was added to the collar of the flask to prevent intrusion of air; samples were kept in darkness until analysis. Flasks were reshaken at least 20 minutes after

sampling was finished. All reagents were prepared according to WOCE specifications (WOCE, 1991).

Samples were titrated using Carpenter's whole bottle technique (Carpenter, 1965). An auto-titrator, based on a design by Gernot Friederich (Friederich, 1991) and using a modified version of Friederich's software, was used to titrate the samples. The titrator consists of a Kloehn™ 50100 Syringe Drive with a 5-mL syringe, a custom-built photometer, and a computer. Post-processing software was used to add temperature corrections and to analyze data. The estimated relative accuracy is 0.2%, with an estimated precision of 0.3 µmol/kg.

Samples were analyzed no sooner than 20 minutes and no later than 8 hours after remixing. Liquid from the flask collar was aspirated with a transfer pipette and the stopper removed. Approximately 1 mL of 10N sulfuric acid (H_2SO_4) and a rinsed stir bar were added. The flask was wiped dry, placed in the titrator, and titrated with 0.05 N sodium thiosulfate ($Na_2S_2O_4$). After completion of analysis, the sample was poured out and the flask rinsed with hot tap water.

Titrant was standardized with 0.01N potassium iodate (KIO_3) solution mixed before the cruise and stored in an upside-down airtight bottle. Standard was dispensed using a Kloehn™ 50100 with a calibrated 5-mL buret. The measured precision of the dispensed standards was 0.6 µL and 2.3 µL for volumes below and above 5 mL, respectively. Standards were all within 0.1% of their calculated values when intercompared after the cruise. Concentrations were converted to µmol/kg using sigma-theta. Oxygen values from samples with a sampling or analytical problem are flagged as "3" (questionable) in the data table. Several samples were clearly anomalous relative to surrounding samples in the water column, and to the CTD oxygen sensor. This may have been due to errors in logging the oxygen flask number correctly on the sample log at the time of sample collection, or other labeling errors. These samples are also flagged as questionable.

2.1.3 Discrete Fugacity of CO_2 (fCO_2)

Samples were drawn from the PVC bottles into 500-mL Pyrex™ volumetric flasks using Tygon™ tubing. Bottles were rinsed once and filled from the bottom, overflowing half a volume, and care was taken not to entrain any bubbles. Five mL of water was withdrawn with a pipette to create a small expansion volume. 0.2 mL of saturated $HgCl_2$ solution was added as a preservative. The sample bottles were sealed with a screw cap containing a polyethylene liner and stored upside-down at room temperature for a maximum of a day.

The discrete fCO_2 system is patterned after the setup described in Chipman *et al.* (1993) and is discussed in detail in Wanninkhof and Thoning (1993) and Chen *et al.* (1995). The major difference is that our system uses a LI-COR™ (Model 6262) non-dispersive infrared analyzer, while the system of Chipman *et al.* (1993) utilizes a gas chromatograph with a flame ionization detector and a methanizer which quantitatively converts CO_2 into CH_4 for analysis.

The samples were brought to a temperature of 20.00 ± 0.02°C by inserting the flasks first upside-down in a pre-bath at 19–21°C and subsequently in a Neslab™ (Model RT-220) controlled

temperature bath for equilibration and analysis. A 60-mL headspace was created in the sample flask by displacing the water using a compressed standard gas with a CO_2 mixing ratio close to the fCO_2 of the water.

The headspace contents was circulated in a closed loop through the infrared analyzer, which measured CO_2 and water vapor levels in the sample cell. The headspace contents of two flasks were equilibrated simultaneously in two channels. While the headspace contents of the flask in the first channel flowed through the IR analyzer, that of the flask in the second channel was recirculated in a closed loop. After the first sample was analyzed a valve was switched to put the second channel in line with the analyzer. The samples were equilibrated until the running mean of twenty consecutive 1-second readings from the analyzer had a standard deviation of less than 0.1 ppm (parts per million by volume), which on average took about 10 minutes. An expandable volume consisting of a balloon kept the flask contents at room pressure. In order to maintain measurement precision, a set of six gas standards was run through the system after every eight to twelve seawater samples. The standards had mixing ratios of 201.4, 354.1, 517.0, 804.5, 1012.2, and 2020 ppm, which bracketed most of the fCO_2 at 20°C (fCO_2 (20)) values observed in the water column.

The determination of $fCO_2(20)$ in the headspace contents involved several steps. The IR detector response for the standards was normalized for temperature, the IR analyzer voltage output for samples was normalized to 1 atm pressure, and the IR detector response was corrected for the influence of water vapor. The sample values were converted to a mixing ratio based on the compressed gas standards. The mixing ratio in the headspace contents was converted to fugacity and corrected to the fugacity of CO_2 in the water sample prior to equilibration by accounting for change in total CO_2 in water during the equilibration process (for details see Wanninkhof and Thoning, 1993). The change in $fCO_2(20)$ caused by the change in DIC is calculated using the constraint that TAlk remains constant during exchange of CO_2 gas between the headspace and the water. The calculation is outlined in the appendix of Peng *et al.* (1987).

Relative error of the fCO_2 analysis was determined in two different ways: duplicate samples were taken from PVC bottles tripped at the same depth, and duplicates were taken from the same PVC bottle (Table 2). The difference in relative error between the two types of duplicates was insignificant. The percent relative error is expressed as the absolute difference divided by the mean for two samples.

2.1.4 pH

Seawater samples were drawn from the PVC bottles with a 25-cm length of silicon tubing. One end of the tubing was fit over the petcock of the PVC bottle and the other end was attached over the opening of a 10-cm glass spectrophotometric cell. The spectrophotometric cell was rinsed three to four times with a total volume of approximately 200 mL of seawater; the Teflon™ endcaps were also rinsed and then used to trap a sample of seawater in the glass cell. While drawing the sample, care was taken to make sure that no air bubbles were trapped within the cell.

Table 2. Relative errors for fCO_2 analyses during the eastern Pacific 1994 cruise.

	Samples from different PVC bottles, same depth	Samples from same PVC bottle
Total sets (n)	55	52
Sets used (n)	52	47
Relative error (%)	0.19	0.20

Note: Duplicate samples whose relative error was three times larger than the relative error were omitted from the analyses. The number of sets omitted is the difference between total sets and sets used.

Seawater pH was measured using a double-wavelength spectrophotometric procedure (Byrne, 1987) and the indicator calibration of Clayton and Byrne (1993). The indicator was a 8.0-mM solution of Kodak™ *m*-cresol purple sodium salt ($C_{21}H_{17}O_5Na$) in a 10% ethanol solution; the absorbance ratio of the concentrated indicator solution (RI = 578A/434A) was 1.00. All absorbance ratio measurements were obtained in the thermostatted (25.0 ± 0.05°C) cell compartments of Varian™ CARY 1 and CARY 3 UV-visible dual-beam spectrophotometers. Periodically the spectrophotometric cells were cleaned with a 1 N HCl solution to preclude biological growth.

Measurements of pH were taken at 25.0°C on the total hydrogen ion concentration ($[H^+]_t$) scale, in mol/kg soln:

$$pH_t = -\log[H^+]_t = -\log([H^+]_f\,(1 + [SO_4^{2-}]/K_s)\,)$$

where $[H^+]_f$ represents the concentration of free hydrogen ions in the solution; $[SO_4^{2-}]$ represents the total concentration of sulfate ions in seawater; and K_s represents the dissociation constant of bisulfate ion in seawater.

2.1.5 Dissolved Inorganic Carbon (DIC)

Samples were drawn from the PVC bottles into cleaned, precombusted 500-mL Pyrex™ bottles using Tygon™ tubing according to procedures outlined in the Handbook of Methods for CO_2 Analysis (DOE, 1994). Bottles were rinsed once and filled from the bottom, overflowing half a volume, and care was taken not to entrain any bubbles. The tube was pinched off and withdrawn, creating a 5-mL headspace, and 0.2 mL of saturated $HgCl_2$ solution was added as a preservative. The sample bottles were sealed with glass stoppers lightly covered with Apiezon-L™ grease, and were stored at room temperature for a maximum of 12 hours prior to analysis.

The DIC analytical equipment was set up in a seagoing container modified for use as a laboratory. The analysis was done by coulometry; two analytical systems (PMEL-1 and PMEL-2) were used simultaneously on the cruise, each consisting of a coulometer (UIC, Inc.) coupled with a SOMMA (Single Operator Multiparameter Metabolic Analyzer) inlet system developed by Ken

Johnson (Johnson *et al.*, 1985,1987,1993; Johnson, 1992) of Brookhaven National Laboratory (BNL).

In the coulometric analysis of DIC, all carbonate species (CO_3^{2-} and HCO_3^-) were converted to CO_2 (gas) by addition of excess H^+ to seawater. The analysis was conducted as follows. The 500-mL sample bottle was inserted in a water bath at 20°C and allowed to come to thermal equilibrium; water from the bottle was displaced into a calibrated, thermostatted pipette using a headspace gas (511 ppm CO_2 in N_2). Using Ultra-Pure™ N_2 as the carrier gas, the sample was injected into the reaction vessel in the SOMMA which contained 1 mL 10% H_3PO_4 solution (previously stripped of CO_2), and the evolved CO_2 gas from the sample was carried through a condenser and a $Mg(ClO_4)_2$ column to dry the gas stream, and then through an ORBO-53™ tube to remove volatile acids other than CO_2. In the titration cell of the coulometer, CO_2 reacted quantitatively with ethanolamine to form hydroxyethyl carbamic acid which was titrated with OH^- ions electrogenerated by the reduction of H_2O at a platinum cathode. The equivalence point was detected photometrically with thymolphthalein as indicator. The cell solution was blue at the equivalence point of 10.5 pH and colorless at pH 9.3 after the addition of CO_2 in aqueous solution (Johnson *et al.*, 1985). CO_2 lowers pH and raises % transmittance. As the acid was titrated, pH increased (hence, the blue color returned) and % transmittance decreased, thus causing the titration current to decrease as the equivalence point was approached and sensed by the optical detector. CO_2 was thus measured by the quantity of electrons required to reach the equivalence point, calculated by the magnitude of the current and the passage of time.

The coulometers were calibrated by injecting aliquots of pure CO_2 (99.995%) by means of an 8-port valve outfitted with two sample loops that had been calibrated at BNL (Wilke, 1993). All DIC values were corrected for dilution by 0.2 mL of $HgCl_2$ solution, assuming the solution was saturated with atmospheric CO_2 levels; total water volume was 540 mL. The correction factor used was 1.00037. No correction was made for headspace gas exchange with the sample due to the probable variability of fCO_2 at the location of sampling, and the small magnitude (<1.0 µmol/kg) of the correction.

The instruments were calibrated at the beginning, middle, and end of each coulometer cell solution with a set of the gas loop injections. Using the calculation of CO_2 injected (DOE, 1994), the set of gas loops yielded a mean calibration factor (CF) for the instrument defined as

$$CF = \frac{\text{calculated number of moles } CO_2 \text{ injected from gas loop}}{\text{observed moles of } CO_2 \text{ injected}}$$

The concentration of DIC in the samples was determined according to

$$\text{DIC (µmol/kg)} = \frac{CF \times (\text{Counts} - \text{Blank} \times \text{Run Time}) \times 2.0728 \times 10^{-4}\ \text{µmol/count}}{\text{Pipette Volume} \times \text{Density of Sample}}$$

where “Counts” is the instrument reading at the end of the analysis; “Blank” is the counts/minute determined from blank runs performed at least once for each cell solution; “Run Time” is the length of coulometric titration (in minutes); and 2.0728×10^{-4} is the conversion factor from counts to µmol.

Pipette volume was determined by taking aliquots of distilled water at known temperature dispensed from the pipette before, during, and after the cruise and weighing them ashore. No significant volume change was observed for either instrument. The weights with the appropriate densities were used to determine the volume of the pipette (DOE, 1994).

A Certified Reference Material (CRM) consisting of seawater poisoned with $HgCl_2$ (Batch 19), prepared by Dr. Andrew Dickson (SIO), was analyzed on both instruments over the duration of the cruise (Fig. 2). The CRM value was determined by the manometric technique of Dr. Charles Keeling of SIO. All DIC data have been corrected to the CRM values on a per instrument/per leg basis; the corrections applied are given in Table 3.

The overall uncertainty of the DIC measurements was determined in several different ways. Figure 2 and Table 3 display measurements of the CRMs analyzed during the cruise; no significant trends were observed over time, and the precision was within ±1.9 µmol/kg DIC. From Stations T1 and 192, replicate measurements from different PVC bottles tripped at the same depth, along with replicate measurements from the same PVC bottle, are shown in Table 4. The precision for all samples was within ±1.2 µmol/kg DIC. Duplicate data from the same PVC bottles tripped at 10 m and 1000 m throughout the cruise and analyzed at sea are shown in Table 5. Samples from these pairs were analyzed randomly throughout the life of the coulometer cell solution (25 mg C total throughput), and one remaining sample from one of the pairs was analyzed utilizing a new coulometer cell and solutions. The relative error for these samples was within 0.015%. In addition, sample pairs were collected for shore-based analyses and compared against at-sea analyses. These results are discussed in Section 2.2.5.1.

PMEL has shown a long-term improvement in precision of DIC analyses. Table 6 displays results of CRMs analyzed during cruises in which PMEL has participated from 1990 to 1994. The major improvement in overall precision occurred in 1992 when PMEL scientists began using the SOMMA coulometer system as their primary system for DIC analyses.

2.1.5.1 Shore-based analyses. In addition to the DIC samples analyzed at sea, samples were also collected for post-cruise analyses at SIO’s shore laboratory using a vacuum extraction/manometric analysis method (Guenther, 1994). Pairs of samples for manometric analysis, along with companion samples for at-sea coulometric analysis, were collected at a number of stations throughout the cruise, and were generally drawn from PVC bottles at both 10 and 3000 db (Fig. 3). The data imply a precision of 2.0 µmol/kg for individual shipboard measurements. Using Student’s *t* test (DOE, 1994), the average difference between shore-based and at-sea analyses was not significantly different from zero at the 95% confidence level.

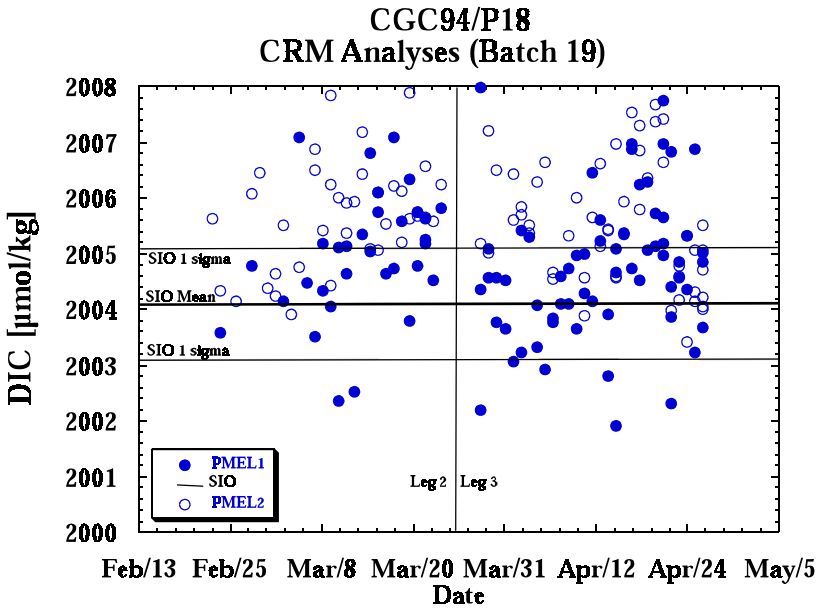

Fig. 2. CRM (Batch 19) analyzed during the eastern Pacific 1994 cruise. The overall uncertainty for both instruments combined was determined to be within ±1.4 µmol/kg DIC. Manometrically derived DIC = 2004.1 ± 1.0 µmol/kg (n=17).

Table 3. CRM (Batch 19) analyzed during the eastern Pacific 1994 cruise.

	PMEL-1 (µmol/kg)	Correction applied	PMEL-2 (µmol/kg)	Correction applied
Leg 2	2005.1 ± 1.9 (n = 35)	–1.0	2005.7 ± 0.9 (n = 39)	–1.6
Leg 3	2004.9 ± 1.5 (n = 67)	–0.8	2005.7 ± 1.3 (n = 54)	–1.6

Standard deviations are given at the 1σ level. The manometrically derived DIC = 2004.1 ± 1.0 µmol/kg.

Table 4. Precision of DIC analyses during the eastern Pacific 1994 cruise.

Station	Depth (m)	Precision (µmol/kg) Samples from different PVC bottles, same depth	Samples from same PVC bottle
T1	500	2301.6 ± 1.2 (n = 5)	2302.3 ± 1.0 (n = 5)
192	1000	2362.4 ± 0.4 (n =10)	2362.1 ± 0.9 (n = 10)

Values shown are for PMEL-1 and PMEL-2 combined. Standard deviations are given at the 1σ level.

Table 5. Relative error of duplicate data from PVC bottles tripped at 10 and 1000 m during the eastern Pacific 1994 cruise.

Depth (m)	*n*	Relative error (%)
10	101	0.015
1000	100*	0.013

*1 pair was omitted from statistical analysis. Values shown are for PMEL-1 and PMEL-2 combined.

Table 6. Long-term precision based on CRM analyses from 1990 to 1994.

Year	CRM Batch #	n	Precision (µmol/kg)
1990	1	26	±2.5
1991	No CRM available	—	—
1992S	10	68	±1.3
1992F	12	76	±1.5
1994	19	195	±1.3

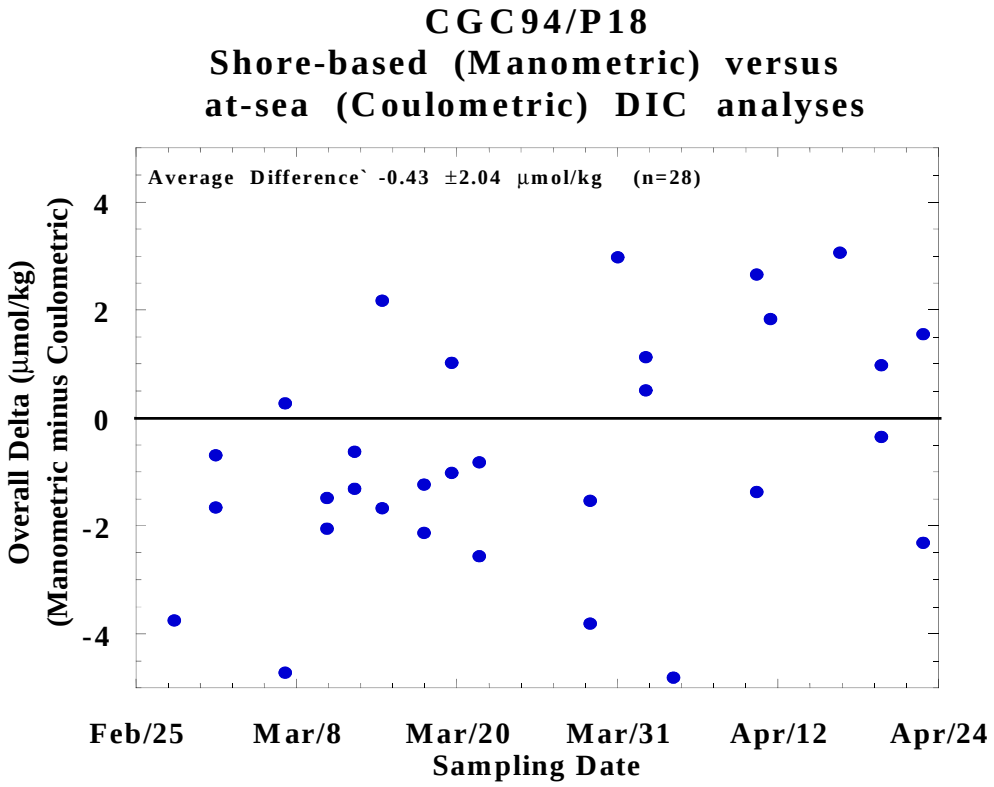

Fig. 3. Shore-based (manometric) versus at-sea (coulometric) DIC analyses during eastern Pacific 1994 cruise.

2.1.6 Total Alkalinity (TAlk)

Samples were taken from the same 500-mL Pyrex™ bottles used for DIC analyses, and were analyzed within 12 hours. The titration system used to determine TAlk consisted of a Metrohm 665 Dosimat™ titrator and an Orion™ 720A pH meter controlled by a personal computer (Millero *et al.*, 1993). The acid titrant, in a water-jacketed burette, and the seawater sample, in a water-jacketed cell, were kept at 25 ± 0.1°C with a Neslab™ constant-temperature bath. The plexiglass water-jacketed cells were similar to those used by Bradshaw *et al.* (1988), except that a larger volume (200 mL) was used to increase the precision. The cells had fill and drain valves with zero dead-volume, to increase the reproducibility of the cell volume.

The GWBASIC™ program used to run the titration recorded the volume of the added acid and the electromagnetic force (emf) of the electrodes using an RS232 interface. The titration was made by adding HCl to seawater past the carbonic acid endpoint. A typical titration records the emf reading after the readings stabilize (±0.09 mv), and adds enough acid to change the voltage to a preassigned increment (±13 mv). In contrast to the delivery of a fixed-volume increment of acid, this method results in an even distribution of data points throughout the titration curve.

The HCl solutions used throughout the cruise were made, standardized, and stored in 500-mL glass bottles in the laboratory for use at sea. The 0.25 M HCl solutions were made from 1 M Mallinckrodt™ standard solutions in 0.45 M NaCl to yield an ionic strength equivalent to that of

average seawater (0.7 M). The acid was independently standardized using a coulometric technique (Taylor and Smith, 1959; Marinenko and Taylor, 1968) by the University of Miami and by Dr. Dickson; the two standardization techniques agreed to ±0.0001 N.

The volumes of the cells used at sea were determined in the laboratory by weighing them filled with degassed Milli-Q™ water. The density of water at the temperature of the measurements (25°C) was calculated from the international equation of the state of seawater (Millero and Poisson, 1981). The nominal volumes of the cells were about 200 mL and the values were determined to ±0.03 mL. The reliability of the volumes was assessed by comparing the values of TAlk obtained for Gulf Stream seawater with open (weighed amounts of seawater) and closed cells using the same acid, electrodes, and Dosimat™. If the volume was correct, the TAlk from the open and closed cells should be the same. If the cells were modified during the cruise, adjustments were made to the volumes using the daily titrations on low-nutrient surface water and CRMs (Batch 19).

The volume of HCl delivered to the cell is traditionally assumed to have a small uncertainty (Dickson, 1981) and is equated with the digital output of the titrator. Calibrations of the Dosimat™ burettes with Milli-Q™ water at 25°C indicated that the systems deliver 3.000 mL (the value for a titration of seawater) to a precision of 0.0004 mL. This uncertainty resulted in an error of 0.4 µmol/kg in TAlk and DIC. The accuracy of the volume of acid delivered by the Dosimats™ was as much as ten times greater (4.0 µmol/kg).

Internal consistency of each cell was checked before, during, and after the cruise by titrating CRM Batch 19 prepared by Dr. Dickson; this was the same batch used for calibration of DIC. The TAlk of CRM Batch 19 was determined by open cell (weighed) titration in the laboratory prior to the cruise and was found to be 2251 µmol/kg (n = 9). A total of 114 CRM measurements were made at sea ($\bar{x}$ = 2254 ± 2 µmol/kg) on three different cells. The deviations from the mean at sea are shown in Fig. 4. All TAlk data have been corrected to laboratory CRM values for each cell and each leg.

2.1.7 $^{13}C/^{12}C$ *Isotopes* ($\delta^{13}C$)

Samples were collected from the PVC bottles in pre-washed and baked (450°C) 250- or 500-mL ground glass- stoppered bottles using a length of Tygon™ tubing. The tubing was flushed for a few seconds, the end of the tubing was then placed at the bottom of the upright sample bottle, and the bottle was filled, then overflowed by at least half its volume. Flow was stopped as the Tygon™ tubing was removed from the top of the bottle to avoid splashing.

Using a syringe or turkey baster, 10 to 20 mL were withdrawn from the top of the sample to lower the water level to approximately 1 cm below the neck of the bottle, avoiding backwash into the sample. The ground glass joint of the bottle was wiped dry with Kimwipes™, then 100 μL (per 250 mL of seawater) of a saturated $HgCl_2$ solution was injected into the sample using an Eppendorf™ pipette. The ground-glass stopper, which had been pregreased with Apiezon-M™ grease, was then inserted straight into the bottle without twisting. If any air streaks in the grease seal

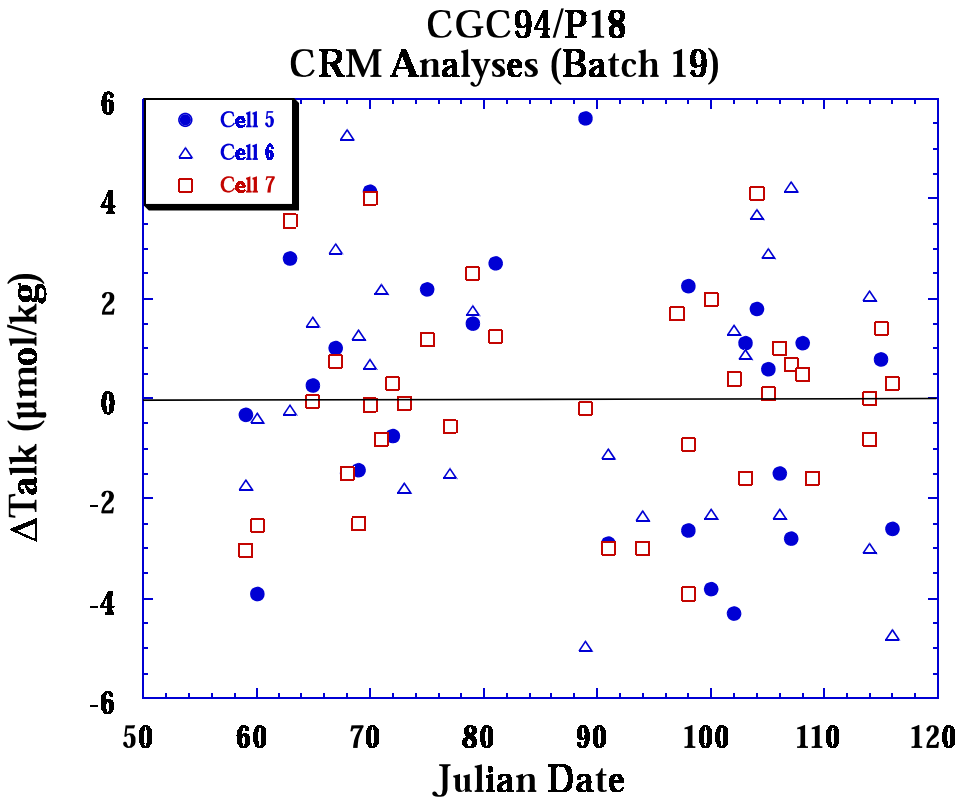

Fig. 4. Deviation from the mean for TAlk of CRM (Batch 19) during the eastern Pacific 1994 cruise.

were visible, the stopper was removed, cleaned, and regreased, then the bottle was resealed. Clips (if required for the bottle neck type) were placed on the necks of the bottles, and two heavy rubber bands were placed around the stopper and bottle to prevent leakage. The sample bottle was then overturned a few times to mix the $HgCl_2$ throughout the sample.

At the onshore laboratory, CO_2 was extracted from the DIC seawater sample using a modification of the He stripping technique of Kroopnick (1974), as described in Quay *et al.* (1992). The stripper comprised a glass tube with a stainless steel fitting and silicone-greased glass stopcock at the bottom (which connects to the He line), a glass frit through which the He passed, and a stainless steel fitting containing a 3-layer silicone rubber septum at the top. Approximately 1 mL H_3PO_4 was injected into the stripper and bubbled with He for 10 min. The gas was then evacuated from the stripper and the stripper weighed. 80 to 125 mL of the sample was then drawn into the stripper and weighed again to allow calculation of the weight of water analyzed. A stainless steel needle pierced the septum, connecting the stripper to the extraction line, which had been evacuated and filled with He. The sample was stripped with 99.997% pure He at a flow rate of about 200 ml/min for 20 min. Water was trapped out in two glass traps submerged in dewars containing a slush mixture of dry ice and isopropanol at –70°C. CO_2 was collected at –196°C in glass loop traps submerged in lN_2. The $\delta^{13}C$ was then measured on a Finnigan™ MAT 251 mass spectrometer.

The efficiency of the extraction method was 100% ± 0.5%, based on gravimetrically prepared Na_2CO_3 standards. The precision of the $\delta^{13}C$ analyses was ±0.02 per mil, based on replicate analyses of standards and seawater samples.

2.1.8 Nutrients

2.1.8.1 Sampling procedures and equipment; analytical methods. Nutrient samples were collected from the PVC bottles into aged 20-mL high-density polyethylene scintillation vials closed with Teflon™-lined polyethylene caps. All vials and caps were rinsed with 10% HCl and deionized water prior to each station, and rinsed at least three times with sample before filling. Samples were usually analyzed immediately after collection; however, some samples were stored for up to 12 hours at 4–6°C. An Alpkem™ RFA/2 autoanalyzer was used to determine dissolved concentrations of silicate ($Si(OH)_4$), phosphate (PO_4^{3-}), nitrate (NO_3^-), and nitrite (NO_2^-). Measurements were made in a temperature-controlled laboratory (21 ± 1°C). The following analytical methods were employed:

- $Si(OH)_4$ was converted to silicomolybdic acid and reduced with stannous chloride to form silicomolybdous acid or molybdenum blue (Armstrong, 1967).
- PO_4^{3-} was converted to phosphomolybdic acid and reduced with ascorbic acid to form phosphomolybdous acid in a reaction stream heated to 37°C (Bernhardt and Wilhelms, 1967).
- NO_2^- was diazotized with sulfanilamide and coupled with NEDA to form a red azo dye. ($NO_3^- + NO_2^-$) was measured by first reducing nitrate to nitrite in a copperized cadmium coil, and then analyzing for nitrite. NO_3^- was determined from the difference of ($NO_3^- + NO_2^-$) and NO_2^- (Armstrong, 1967).

2.1.8.2 Calibrations and standards. Standard materials for $Si(OH)_4$, NO_3^-, NO_2^-, and PO_4^{3-} were sodium fluorosilicate, potassium nitrate, sodium nitrite, and mono-basic potassium phosphate, respectively. Sodium fluorosilicate was referenced against a fused-quartz standard. Primary standards were prepared by dissolving standard material in deionized water, and working standards were prepared in low-nutrient seawater. At each station, seven concentrations of working standard were freshly prepared and analyzed prior to sample analysis, and the highest standard was again analyzed after the last sample. This allowed for regular monitoring of the response, drift, and linearity of the chemistry. All analyses were within the linear range of the instrument. Concentrations were converted to µmoles/kg by calculating sample densities using the laboratory temperature of 21°C and the practical salinity scale (UNESCO, 1981).

2.1.8.3 Precision. Analytical precision was determined by replicate measurements (usually 4–5 measurements) on 46 samples from depths greater than 100 m. The average standard deviations of these precision tests in µmol/kg was 1.1 $Si(OH)_4$, 0.015 PO_4^{3-}, and 0.22 NO_3^-; the average percent deviations were 0.56% $Si(OH)_4$, 0.84% PO_4^{3-}, and 0.59% NO_3^-.

2.1.9 Total Organic Carbon (TOC) and Nitrogen (TON)

Water samples taken for organic carbon and nitrogen determinations were not filtered, hence total organic carbon (TOC) and nitrogen (TON) were measured. Samples for TOC and TON analysis were collected using the PVC bottles on the CTD rosette (data in Appendix A), or with 10- or 20-L GoFlo™ bottles deployed on a Kevlar™ line (data in Appendix B). TOC samples were collected in 40-mL EPA vials with Teflon™-lined closures (I-Chem Research). Vials and caps were rinsed three times, filled 3/4 full, immediately acidified with 150 µL of 50% (v/v) H_3PO_4 and stored in the dark. Analyses were completed 6–9 months after collection. TON samples were collected in acid-washed 125-mL polyethylene bottles. Bottles and caps were rinsed three times, filled 3/4 full, and frozen (–20°C) for later onshore analysis. A comparison of TOC concentrations in the frozen TON samples and the acidified, dark-stored samples showed no discernible differences.

2.1.9.1 TOC analyses. All TOC samples were analyzed by high-temperature combustion using a non-commercial system modified from the system of Hansell (1993). A quartz combustion tube (490 mm × 13 mm) was packed with platinum pillows (Ionics, Inc.), Cuprox™ (Leeman Labs), and Sulfix™ (Wako Pure Chemical Industries, Inc.). Four pillows were placed 11 cm from the top of the tube. Below the pillows were 15 g of Cuprox™ and then 15 g of Sulfix™. The pillows, Cuprox™, and Sulfix™ were each separated by a thin layer of quartz wool. The packing material was supported from below by a platinum screen (one of the pillows unfolded), which in turn was supported by a quartz rod (0.6 mm O.D.) extending to the bottom of the column. The combustion column was maintained at 700°C in a Thermolyne™ 21100 tube furnace. The samples were sparged of inorganic carbon with Ultra-Pure™ O_2. Carbon dioxide generated from 100-µL injections was detected using a LICOR™ Model LI-6252 NDIR analyzer operated in the absolute mode. Data were acquired on a Macintosh computer running Dynamax Macintegrator™ 1.3 software (Rainin Instruments, Inc.).

Calibrations were performed daily with a 4-point standard curve using glucose in Milli-Q™ water (0–100 µmol/L C). The system blank (normally 7–8 µmol/L C) was determined using vialed Milli-Q™ water produced at BBSR. The organic carbon content of this water (3 µmol/L C) was determined by intercomparison with the low-carbon water used by Carlson and Ducklow (1995). Vialed seawater, collected from 2600 m at the U.S. JGOFS Bermuda Atlantic Time-Series Study site in the Sargasso Sea, was also analyzed each day to help monitor the system blank and the behavior of the analyzer. The percent relative standard deviation (RSD) for all TOC samples at depths >1000 m, with a mean concentration of 39.9 µmol/L, was 7.8%. In the surface layer, the RSD for TOC was approximately 4%.

2.1.9.2 TON analyses. Concentrations of TON were determined by UV photooxidation according to the method described by Walsh (1989). Frozen samples were thawed by placing sample bottles in a warm water bath. A 10-mL aliquot was removed from each sample bottle and placed in a 20-mL fused quartz tube equipped with a ground stopper (Quartz Scientific, Inc.). Fifty µL of 30% hydrogen peroxide was added to each tube and placed in a homemade irradiation unit overnight

(17–20 hours). Tests for the recovery of known compounds, such as glycine, showed that inconsistent results were obtained with shorter irradiation periods. The irradiation unit contained a 1200W UV lamp (Hanovia) protected by a quartz jacket. A 2-tier aluminum tube holder (40 tubes total) fitted around the lamp and held the samples 8 cm from the lamp. A fan at the bottom of the unit cooled the samples. A hinged aluminum cylinder, open at the top and bottom, was fitted around the samples to keep stray UV light from leaving the system. This entire unit was placed in a fume hood, the front of which was covered with a black curtain while in use (again to collect stray UV light).

After irradiation, aliquots of the samples (which were refrigerated overnight) that had not been oxidized, and the photooxidized aliquots, were analyzed for nitrate plus nitrite using a colorimetric method on a Technicon™ Autoanalyzer II (Knap *et al.*, 1993). Daily calibration was achieved from 4-point calibration curves using both KNO_3 and KNO_2. Cadmium column efficiency was determined by comparing the slope of the NO_3^- calibration curve with the slope obtained from the NO_2^- calibration curve. Due to the photoreduction of NO_3^- to NO_2^- (Walsh, 1989), it is imperative that the cadmium column be efficient when analyzing samples containing high concentrations of NO_3^-. Therefore, a new column (efficiency >98%) was employed when analyzing NO_3^- samples >10 µmol/L. The column efficiency was generally >90% when running the low-NO_3^- samples. Low-nutrient seawater (Sargasso Sea surface water) was always processed with the samples as a daily quality control. TON in the deep ocean is calculated as the difference between two large numbers (total inorganic nitrogen and total dissolved nitrogen, including inorganic and organic fractions), hence high precision in the deep ocean has been an elusive goal. The RSD for all TON samples >1000 m, with a mean concentration 2.5 µmol/L N, was 18%. In the surface layer, where inorganic nitrogen was non-detectable, the RSD for TON was approximately 4%.

2.1.10 Salinity

Salinity samples were collected in 125-mL amber glass bottles directly from the PVC bottles; care was taken not to touch the petcock. Analysis was conducted with two Guildline™ model 8400A inductive autosalinometers, standardized with IAPSO Standard Seawater, batch P114, and located in a temperature-controlled van. The autosalinometer in use was standardized before each run, and either at the end of each run or after no more than 48 samples. Drift between standardizations was monitored and individual samples were corrected by linear interpolation. Duplicate samples taken from the deepest bottle on each cast were analyzed on a subsequent day. Bottle salinities were compared with preliminary CTD salinities to aid in identification of leaking bottles as well as to monitor the CTD conductivity cells' performance and drift.

The expected precision of the autosalinometer with an accomplished operator is 0.001, with an accuracy of 0.003. To assess the precision of discrete salinity measurements on this cruise, a examination was made of data from instances in which two bottles were tripped within 1 m of each other at the same station below a depth of 2000 m. For the 138 occasions on which both bottles of

the pair had acceptable salinity measurements, the standard deviation of the differences was 0.0012. This value is very close to the expected precision.

2.1.11 Beam attenuation due to particles (c_p)

A 25-cm-pathlength Sea Tech™ transmissometer was interfaced with the CTD. The 0–5 volt output (V) is proportional to beam transmission (T), i.e., $T = V/5$ (or T*100 when expressed as percent transmission). Data were acquired at the same rate as other CTD parameters and were de-spiked and bin-averaged at 1-db intervals. Beam transmission was converted to beam attenuation coefficients using $c = -(\ln T)/z$, where c = the beam attenuation coefficient (m^{-1}), z = beam path length (m), and T = beam transmission. Beam attenuation is linearly related to particle concentration (given a uniform particle-size distribution and index of refraction) whereas beam transmission is not.

When possible, we filtered water through preweighed filters so we could gravimetrically determine the concentration of particulate matter (PM) through the water column for a correlation with beam attenuation (e.g., Gardner *et al.*, 1995). As this was not possible for this transect, we used the following steps for data reduction. The minimum c for each profile was determined and plotted. The depth of the minimum was generally between 2000 and 3000 m. Each profile was examined for anomalous data; only 2 of the profiles had to be eliminated. The transmissometer was not on the CTD for 17 profiles. Successive plots of c were compared, and where the minimum c differed from surrounding plots by more than 0.001 m^{-1}, a linear shift was made in the profile so that c at 2000 m was the same as in adjacent profiles. This procedure corrects for incomplete cleaning of the optical windows and errors in air calibration.

Beam attenuation is the sum of attenuation due to water (c_w), particles (c_p), and dissolved colored organic matter (c_y). In the open ocean the value of c_y is negligible. Sea Tech™ transmissometers were factory-calibrated to have a c of 0.364 m^{-1} in particle-free water, but generally require empirical calibrations by water filtration. Because no filter-calibration data were available, the cruise minimum c was used for c_w; this constant was subtracted from each profile. The remaining value is c_p, attenuation due to particles in the water.

2.2 Biological Cast Operations

In addition to the CTD casts, samples were collected using 10- or 20-L GoFlo™ bottles deployed on a Kevlar™ line (Table 7) to assess the biological components of the carbon species in the upper 200–300 m of the water column. These included estimates of biomass (chlorophyll-*a*, phaeopigments, and biogenic silica) and primary productivity. A more comprehensive listing of the biological data is available through MBARI (Michisaki *et al.*, 1996). Samples for TOC and TON were also collected from some of the biology casts.

2.2.1 Methods and Materials

Water for the productivity experiments was collected at six fixed depths representing 100, 50, 30, 15, 5, and 1% of the surface irradiance (S.I.) as determined with a Secchi disk. Dedicated, Teflon-coated Go-Flo™ bottles lowered on a Kevlar™ cable and closed with Teflon™ messengers were employed. The sampling system and cleaning of components, as well as bottle handling and filtration, were modeled after the recommendations of Fitzwater *et al.* (1982). In addition to samples from the Kevlar™ casts, measurements of chlorophyll-a and phaeopigments were made on samples collected in the upper 200 m with the rosette sampler on the CTD. (Appendix A).

2.2.2 Chlorophyll-a and Phaeopigments

Chlorophyll-*a* and phaeopigments were determined by the fluorometric technique using a Turner™ Designs Model 10-005 R fluorometer calibrated with commercial chlorophyll-*a* (Sigma). Samples for determination of plant pigments were filtered onto 25-mm Whatman™ GF/F glass fiber filters and extracted in 90% acetone in a freezer for between 24 and 30 hours (Venrick and Hayward, 1984). Other than the modification of the extraction procedure, the method used is the conventional fluorometric procedure of Holm-Hansen *et al.* (1965) and Lorenzen (1966). Additional samples were also filtered onto 0.2-, 1.0-, and 5.0-µm-pore Nuclepore™ membrane filters.

2.2.3 Primary Productivity

The stable isotopes ^{13}C and ^{15}N (Hama *et al.*, 1983; Slawyk *et al.*, 1984), rather than the radioactive isotope ^{14}C, were used to measure primary production. Samples were drawn into 1-L polycarbonate bottles which had been washed using the Fitzwater *et al.* (1982) procedure; this method was also used for cleaning the Go-Flo™ bottles. For carbon measurements, Na_2CO_3 (minimum 99.9%; Cambridge, US) was added to reach a concentration of 7.2% of the total inorganic carbon in the ambient seawater (Kanda *et al.*, 1985). An initial sample was inoculated with the tracer and filtered immediately with no incubation to determine abiotic particulate ^{13}C incorporation and initial isotopic ratio. The bottles were encased in nickel screens (Perforated Products) that acted as neutral density filters to reduce light intensity to the level at the depth from which the sample was collected, and were incubated on deck in surface seawater-cooled Plexiglas incubators. All samples were incubated for either 6 (dual-labeled with ^{13}C and ^{15}N) or 24 (^{13}C only) hours under natural light; however, samples were collected and incubations started at various times of the day. For determination of particulate carbon fixation, the water from the bottles was filtered onto Whatman™ GF/F filters at <250 mm mercury. The filters were dried at 60°C and stored in a desiccator for later analysis ashore on a Europa™ mass spectrophotometer. The calculation of production follows the rationale of Dugdale and Wilkerson (1986) for ^{15}N, as described in Chavez *et al.* (1996).

Table 7. Biology cast locations and dates during the eastern Pacific 1994 cruise.

Station	Latitude			Longitude			Date
8	53°	22.9′	S	76°	22.4′	W	23 Feb 94
9	61°	12.7′	S	90°	11.2′	W	25 Feb 94
10	67°	0.0′	S	103°	0.0′	W	27 Feb 94
13	65°	30.0′	S	103°	0.0′	W	28 Feb 94
16	63°	58.0′	S	103°	2.0′	W	1 Mar 94
19	62°	30.0′	S	103°	0.0′	W	2 Mar 94
23	60°	30.0′	S	103°	0.0′	W	3 Mar 94
26	59°	0.0′	S	103°	0.0′	W	4 Mar 94
27	58°	30.0′	S	103°	0.0′	W	5 Mar 94
30	56°	30.0′	S	103°	0.0′	W	7 Mar 94
33	54°	29.7′	S	102°	58.9′	W	8 Mar 94
36	52°	30.0′	S	103°	0.0′	W	9 Mar 94
40	49°	50.0′	S	103°	0.0′	W	10 Mar 94
43	48°	0.0′	S	103°	0.0′	W	11 Mar 94
47	46°	0.0′	S	103°	0.0′	W	12 Mar 94
51	44°	0.0′	S	103°	0.0′	W	13 Mar 94
55	42°	0.0′	S	103°	0.0′	W	14 Mar 94
58	40°	30.0′	S	103°	0.0′	W	15 Mar 94
62	38°	30.0′	S	103°	0.0′	W	16 Mar 94
66	36°	30.0′	S	103°	0.0′	W	17 Mar 94
70	34°	30.0′	S	103°	0.0′	W	18 Mar 94
74	32°	30.0′	S	103°	0.0′	W	19 Mar 94
78	30°	30.0′	S	103°	0.0′	W	20 Mar 94
81	29°	0.0′	S	103°	0.0′	W	21 Mar 94
84	27°	30.0′	S	103°	0.0′	W	22 Mar 94
90	24°	29.3′	S	103°	0.0′	W	29 Mar 94
94	26°	30.0′	S	103°	0.0′	W	30 Mar 94
98	20°	0.0′	S	103°	0.0′	W	31 Mar 94
101	18°	53.7′	S	103°	8.5′	W	1 Apr 94
104	17°	30.0′	S	103°	0.0′	W	2 Apr 94
108	15°	30.0′	S	103°	0.0′	W	3 Apr 94
112	13°	30.0′	S	103°	0.0′	W	4 Apr 94
115	12°	0.0′	S	103°	0.0′	W	5 Apr 94
119	10°	0.0′	S	103°	0.0′	W	6 Apr 94
122	8°	51.3′	S	104°	41.6′	W	7 Apr 94
126	7°	18.4′	S	106°	57.3′	W	8 Apr 94
130	5°	46.5′	S	109°	12.7′	W	10 Apr 94
133	4°	29.8′	S	110°	19.5′	W	10 Apr 94
137	2°	40.0′	S	110°	20.0′	W	11 Apr 94
141	1°	20.0′	S	110°	20.0′	W	12 Apr 94
145	0°	0.0′	S	110°	19.0′	W	13 Apr 94
149	1°	20.0′	N	110°	20.0′	W	14 Apr 94
153	2°	40.0′	N	110°	20.0′	W	15 Apr 94
157	4°	30.0′	N	110°	20.0′	W	16 Apr 94
160	6°	0.0′	N	110°	20.0′	W	17 Apr 94

Table 7. (continued)

Station	Latitude			Longitude			Date
164	8°	0.0′	N	110°	20.0′	W	18 Apr 94
168	10°	9.1′	N	110°	0.4′	W	19 Apr 94
172	12°	40.3′	N	109°	59.9′	W	20 Apr 94
175	14°	29.7′	N	110°	0.1′	W	21 Apr 94
179	16°	30.0′	N	110°	0.0′	W	22 Apr 94
183	18°	30.0′	N	110°	0.0′	W	23 Apr 94
188	21°	0.0′	N	110°	0.0′	W	24 Apr 94
192	22°	43.9′	N	110°	0.0′	W	25 Apr 94

2.2.4 Biogenic Silica

Biogenic silica depth profiles were taken at most biology stations, depending on availability of water. Depths correspond to the depths utilized for uptake rate experiments. One-L samples were filtered onto 47-mm, 0.8-µm polycarbonate filters. The filters were frozen (−20°C) on board and taken back to the lab for analysis. Dissolution was carried out at 85°C in 0.5% Na_2CO_3 and the sample was acidified before silicate concentration was determined following the spectrophotometric method outlined in Parsons *et al.* (1984). There were no replicate analyses; however, based on similar measurements for the equatorial Pacific, precision was estimated at ±14%.

3. DATA TABLES

3.1 CTD Casts

A complete listing of the CTD data is available through NOAA (MCTaggart *et al.*, 1996). Discrete data are reported at all observed depths and are listed in this report as separate tables in Appendix A. Where no data are available, a null value (−9) has been inserted. Sample ID consists of the cast number followed by the 2-digit rosette position. Quality control flags follow the WHP Data Reporting Requirements (WOCE, 1994), and are listed in Tables 8 and 9. In Appendix A, the quality control flags are posted adjacent to the following parameters: Sample ID (flag indicates PVC sample bottle quality (Table 8)), CTD salinity, bottle salinity, nutrients, CFCs, DO, pCO_2, DIC, pH, and TAlk (flags indicate water quality for samples (Table 9)). In the electronic version, quality flags are posted adjacent to all parameters with the exception of pressure, in situ temperature, and potential temperature. Temperatures are reported using the ITS90 scale (Saunders, 1990). Sigma-theta (σ_θ) and potential temperature (θ) values in the tables were calculated using standard UNESCO algorithms (Fofonoff and Millard, 1983); input parameters include salinities and in situ temperatures, both from the CTD. To obtain an electronic version of the database by remote access, please see page iii of this report.

3.2 Biological Casts

Discrete bottle data for the biological parameters obtained from the Kevlar™ casts are presented in Appendix B. In both Appendix B and the electronic version of the biology casts quality flags are posted adjacent to the corresponding parameters. To obtain the database by remote access, please see page iii of this report.

Table 8. WOCE quality flag definitions for water bottles.

Flag	Definition
1	Bottle information unavailable
2	No problems noted
3	Leaking
4	Did not trip correctly
5	Not reported
7	Unknown problem
9	Samples not drawn from this bottle

A more detailed listing of water bottle quality flags of 3 or 4, as documented on the deck logs, are contained in a file available by contacting bullister@pmel.noaa.gov.

Table 9. WOCE water quality flag definitions.

Flag	Definition
1	Sample drawn but analysis not received
2	Acceptable measurement
3	Questionable measurement
4	Bad measurement
5	Not reported
6	Mean of replicate measurements
7	Manual chromatographic peak measurements
8	Irregular digital chromatographic peak integration
9	Sample not drawn for measurement

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APPENDIX A

TABULATED DISCRETE BOTTLE DATA (CTD CASTS)

APPENDIX B

TABULATED DISCRETE BOTTLE DATA (BIOLOGICAL CASTS)

The data presented in this report is available on a computerized Remote Bulletin Board System (RBIS), Internet FTP, and the World Wide Web (WWW). For information regarding electronic access to the data sets contact:

Tsung-Hung Peng
Coordinator for OACES Data Management
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4301 Rickenbacker Causeway
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Internet address: peng@aoml.noaa.gov
WWW address: http://www.aoml.noaa.gov/ocd/oaces
Contoured sections of the data are also available at http://www.pmel.noaa.gov/CO2/

The evaluation of the CGC94 dissolved oxygen, nutrients, and CFC measurements by the WOCE Data Quality Experts and WOCE Hydrographic Office has not been completed. After completion of this process, revised versions of these data will be available from the WOCE Hydrographic Office, or by contacting bullister@pmel.noaa.gov.

APPENDIX A

TABULATED DISCRETE BOTTLE DATA
(CTD CASTS)

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 8 DATE 2/23/94 LATITUDE 53°22.9'S Btm Depth: 1888
CAST 3 LONGITUDE 76°22.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	4	11.3	33.726	2	34.727	4	9.431	9.429	26.052	0.222	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
335	2	8.7	33.726	2	34.728	4	9.430	9.430	26.052	0.222	0.2	2	10.8	2	1.02	2	0.8	2	4.011	2	1.969	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
334	2	10.6	33.726	2	34.728	4	9.433	9.432	26.051	0.222	0.2	2	10.9	2	1.01	2	0.8	2	3.953	2	1.937	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
333	2	494.5	34.218	2	34.219	2	5.298	5.257	27.025	0.010	0.0	2	22.5	2	1.62	2	7.3	2	4.325	2	2.059	2	-9	6	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
332	2	496.9	34.218	2	34.220	2	5.297	5.256	27.025	0.005	0.0	2	22.0	2	1.57	2	7.3	2	4.347	2	2.086	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
331	3	497.1	34.218	2	34.215	2	5.297	5.256	27.026	0.005	0.0	2	22.4	2	1.61	2	7.3	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
330	2	999.2	34.274	2	34.273	2	3.760	3.686	27.240	0.010	0.0	2	31.8	2	2.28	2	30.2	2	1.579	2	0.710	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
329	2	1000.8	34.274	2	34.275	2	3.752	3.678	27.242	0.009	0.0	2	32.3	2	2.26	2	31.2	2	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
328	2	1000.7	34.275	2	34.275	2	3.749	3.676	27.242	0.009	0.0	2	32.6	2	2.22	2	31.4	2	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
327	2	1001.7	34.274	2	34.275	2	3.751	3.677	27.242	0.011	0.0	2	31.6	2	2.18	2	31.1	2	1.542	2	0.699	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
326	2	1001.9	34.275	2	34.275	2	3.750	3.676	27.242	0.011	0.0	2	31.5	2	2.32	2	30.9	2	1.654	2	0.708	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
325	2	1001.1	34.275	2	34.274	2	3.748	3.675	27.242	0.009	0.0	2	33.9	2	2.22	2	30.6	2	1.551	2	0.705	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	1441.6	34.504	2	34.502	2	2.760	2.660	27.519	0.007	0.0	2	36.0	2	2.45	2	68.6	2	0.113	6	0.052	6	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	1440.0	34.503	2	34.502	2	2.761	2.661	27.519	0.009	0.0	2	36.5	2	2.46	2	68.8	2	0.135	2	0.052	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	1441.9	34.503	2	34.508	3	2.763	2.662	27.519	0.007	0.0	2	39.2	2	2.51	2	66.7	2	0.118	6	0.057	6	-9	6	-9	9	2335.4	3	-9	1	-9	9	-9	-9	-9	-9	-9
318	2	1441.1	34.502	2	34.501	2	2.763	2.663	27.518	0.009	0.0	2	36.0	2	2.51	2	65.6	2	-9	1	-9	1	-9	1	-9	9	2336.2	3	-9	1	-9	9	-9	-9	-9	-9	-9
317	2	1441.3	34.502	2	34.502	2	2.762	2.662	27.518	0.009	0.0	2	36.4	2	2.50	2	65.3	2	0.134	2	0.051	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
316	2	1438.0	34.502	2	34.501	2	2.765	2.665	27.517	0.009	0.0	2	36.2	2	2.48	2	66.5	2	0.126	2	0.049	2	-9	1	-9	9	2334.6	3	-9	1	-9	9	-9	-9	-9	-9	-9
315	2	1442.6	34.504	2	34.503	2	2.759	2.659	27.519	0.009	0.0	2	36.1	2	2.47	2	67.3	2	0.125	2	0.047	2	-9	1	-9	9	2336.1	3	-9	1	-9	9	-9	-9	-9	-9	-9
314	2	1638.6	34.566	2	34.566	2	2.575	2.461	27.586	0.008	0.0	2	35.9	2	2.56	2	77.8	2	0.034	2	0.015	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
313	2	1640.0	34.566	2	34.565	2	2.575	2.461	27.586	0.007	0.0	2	36.2	2	2.57	2	78.1	2	0.064	6	0.016	6	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
312	2	1638.3	34.566	2	34.565	2	2.576	2.462	27.586	0.008	0.0	2	35.9	2	2.55	2	79.9	2	0.067	2	0.015	2	-9	6	-9	9	2351.1	3	-9	1	-9	9	-9	-9	-9	-9	-9
311	2	1640.9	34.566	2	34.565	2	2.574	2.460	27.586	0.007	0.0	2	36.0	2	2.40	2	79.6	2	0.237	4	0.014	6	-9	1	-9	9	2351.3	3	-9	1	-9	9	-9	-9	-9	-9	-9
310	2	1641.9	34.567	2	34.565	2	2.574	2.459	27.587	0.007	0.0	2	36.0	2	2.56	2	79.0	2	0.097	2	0.014	2	-9	1	-9	9	2351.4	3	-9	1	-9	9	-9	-9	-9	-9	-9
309	2	1639.5	34.566	2	34.569	2	2.574	2.460	27.586	0.007	0.0	2	36.3	2	2.57	2	78.2	2	0.033	2	0.013	2	-9	1	-9	9	2352.1	3	-9	1	-9	9	-9	-9	-9	-9	-9
308	2	1641.6	34.566	2	34.566	2	2.574	2.460	27.586	0.007	0.0	2	36.1	2	2.55	2	79.8	2	0.086	2	0.015	2	-9	1	-9	9	2353.1	3	-9	1	-9	9	-9	-9	-9	-9	-9
307	2	1842.9	34.606	2	34.605	2	2.390	2.261	27.635	0.006	0.0	2	36.3	2	2.57	2	90.9	2	0.041	2	0.004	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
306	2	1838.4	34.605	2	34.604	2	2.394	2.266	27.634	0.005	0.0	2	36.2	2	2.58	2	90.0	2	1.468	4	0.007	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
305	2	1838.4	34.605	2	34.604	2	2.394	2.265	27.634	0.005	0.0	2	35.6	2	2.55	2	89.9	2	0.064	2	0.006	2	-9	6	-9	9	2360.1	3	-9	1	-9	9	-9	-9	-9	-9	-9
304	2	1841.0	34.606	2	34.604	2	2.392	2.263	27.634	0.005	0.0	2	36.3	2	2.54	2	91.7	2	-0.006	2	-0.002	2	-9	1	-9	9	2361.5	3	-9	1	-9	9	-9	-9	-9	-9	-9
303	4	1841.3	34.605	2	34.604	2	2.393	2.265	27.634	0.005	0.1	2	18.1	2	1.39	2	2.6	2	-9	1	-9	1	-9	1	-9	9	2361.2	3	-9	1	-9	9	-9	-9	-9	-9	-9
302	2	1840.6	34.604	2	34.123	4	2.395	2.267	27.633	0.005	0.0	2	36.0	2	2.56	2	88.6	2	0.445	4	0.009	2	-9	1	-9	9	2362.4	3	-9	1	-9	9	-9	-9	-9	-9	-9
301	2	1838.5	34.605	2	34.604	2	2.394	2.266	27.633	0.006	0.0	2	35.6	2	2.56	2	87.7	2	0.022	2	0.005	2	-9	1	-9	9	2362.7	3	-9	1	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 9 DATE 2/25/94 LATITUDE 61°13.2'S Btm Depth: 4917
CAST 3 LONGITUDE 90°10.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	24.5	34.004	2	34.006	2	4.762	4.760	26.913	0.147	0.2	2	20.0	2	1.60	2	1.9	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
335	2	24.3	34.004	2	34.006	2	4.755	4.754	26.914	0.146	0.2	2	20.0	2	1.53	2	1.6	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
334	2	24.0	34.004	2	34.006	2	4.754	4.752	26.914	0.146	0.2	2	20.0	2	1.54	2	1.8	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
333	2	25.7	34.004	2	34.006	2	4.762	4.760	26.913	0.146	0.2	2	19.9	2	1.62	2	1.4	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
332	2	25.6	34.005	2	34.006	2	4.770	4.768	26.912	0.146	0.2	2	20.0	2	1.29	2	1.3	2	5.098	2	2.446	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
331	2	24.3	34.005	2	34.006	2	4.776	4.774	26.912	0.146	0.2	2	19.9	2	1.54	2	1.4	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
330	2	26.0	34.005	2	34.006	2	4.775	4.773	26.912	0.146	0.2	2	19.9	2	1.49	2	1.1	2	5.141	2	2.448	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
329	2	24.6	34.005	2	34.006	2	4.765	4.764	26.913	0.147	0.2	2	19.9	2	1.53	2	1.2	2	12.148	4	2.461	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
328	2	24.6	34.005	2	34.006	2	4.767	4.765	26.913	0.147	0.2	2	20.1	2	1.48	2	1.2	2	5.134	2	2.445	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
327	2	25.6	34.005	2	34.005	2	4.769	4.767	26.913	0.146	0.2	2	20.1	2	1.46	2	1.3	2	5.153	2	2.440	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
326	2	25.6	34.004	2	34.005	2	4.762	4.760	26.913	0.146	0.2	2	20.0	2	1.47	2	1.4	2	5.255	2	2.442	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
325	2	188.2	34.053	2	34.055	2	2.312	2.301	27.189	0.029	0.0	2	26.9	2	1.81	2	16.2	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	187.8	34.053	2	34.055	2	2.311	2.300	27.189	0.029	0.0	2	26.7	2	1.85	2	16.2	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	185.6	34.053	2	34.055	2	2.312	2.301	27.189	0.027	0.0	2	26.8	2	1.82	2	16.0	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	1382.1	34.672	2	-9	5	2.131	2.042	27.706	0.006	-9	9	-9	9	-9	9	-9	9	0.074	6	0.027	6	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
318	2	1380.6	34.672	2	-9	5	2.131	2.042	27.706	0.007	-9	9	-9	9	-9	9	-9	9	-0.003	2	-0.003	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
317	2	1380.9	34.672	2	-9	5	2.131	2.042	27.705	0.007	-9	9	-9	9	-9	9	-9	9	0.079	2	0.073	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
316	2	1381.1	34.672	2	-9	5	2.131	2.042	27.706	0.007	-9	9	-9	9	-9	9	-9	9	0.063	2	0.040	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
315	2	1380.1	34.672	2	34.672	2	2.131	2.042	27.706	0.008	0.0	2	32.9	2	2.24	2	82.2	2	0.208	2	0.070	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
314	2	1379.3	34.672	2	34.672	2	2.130	2.042	27.706	0.008	0.0	2	32.6	2	2.26	2	82.5	2	0.888	4	0.064	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
313	2	1382.3	34.673	2	34.672	2	2.129	2.040	27.706	0.006	0.0	2	32.9	2	2.24	2	82.2	2	0.150	2	0.062	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
312	2	1382.0	34.672	2	34.672	2	2.130	2.041	27.706	0.006	0.0	2	32.7	2	2.25	2	81.8	2	0.194	2	0.064	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
311	2	1379.8	34.673	2	34.672	2	2.130	2.041	27.706	0.008	0.0	2	32.7	2	2.25	2	81.8	2	0.155	2	0.064	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
310	2	1805.7	34.721	2	-9	5	1.874	1.755	27.767	0.006	-9	9	-9	9	-9	9	-9	9	0.150	2	0.068	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
309	2	1805.5	34.721	2	-9	5	1.874	1.755	27.767	0.006	-9	9	-9	9	-9	9	-9	9	0.191	2	0.066	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	1802.9	34.721	2	-9	5	1.875	1.756	27.768	0.008	-9	9	-9	9	-9	9	-9	9	0.160	2	0.078	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	1806.8	34.721	2	-9	5	1.874	1.755	27.767	0.007	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	1804.6	34.722	2	-9	5	1.874	1.755	27.768	0.008	-9	9	-9	9	-9	9	-9	9	0.175	2	0.070	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
305	2	1805.9	34.722	2	34.721	2	1.874	1.755	27.768	0.006	0.0	2	31.9	2	2.18	2	89.9	2	0.064	2	0.027	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
304	2	1803.9	34.722	2	34.722	2	1.875	1.756	27.768	0.006	0.0	2	31.7	2	2.18	2	90.0	2	8.079	4	0.025	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
303	2	1803.3	34.721	2	34.721	2	1.875	1.756	27.768	0.008	0.0	2	31.9	2	2.23	2	90.1	2	0.061	2	0.023	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
302	3	1803.8	34.721	2	34.721	2	1.876	1.757	27.767	0.006	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
301	2	1805.9	34.721	2	34.721	2	1.877	1.758	27.767	0.006	0.0	2	31.8	2	2.23	2	89.7	2	0.074	2	0.027	2	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 10 DATE 2/27/94 LATITUDE 66°59.7'S Btm Depth: 4746
CAST 3 LONGITUDE 103°0.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.5	33.473	2	33.475	2	2.226	2.226	26.731	0.076	0.2	2	21.4	2	1.47	2	8.3	2	-9	1	-9	1	323.07	2	689	2	2108.3	2	-9	9	2261	2	-9	-9	-9	0.055	0.013
335	2	24.5	33.678	2	33.699	2	2.079	2.077	26.907	0.075	0.2	2	23.1	2	1.61	2	11.8	2	6.529	2	2.910	2	327.82	2	718	2	2124.9	2	-9	9	2276	2	1.70	-9	-9	0.063	0.020
334	2	47.9	33.780	2	33.790	2	0.490	0.488	27.095	0.080	0.1	2	24.1	2	1.77	2	14.5	2	6.984	6	3.071	6	344.92	2	732	2	2132.9	2	-9	9	2281	2	1.60	44.3	-9	0.077	0.021
333	2	77.6	33.869	2	33.873	2	-0.407	-0.410	27.213	0.052	0.1	2	25.5	2	1.84	2	20.1	2	7.143	2	3.108	2	344.30	2	784	2	2147.1	2	-9	9	-9	5	1.50	-9	-9	-9	-9
332	2	99.1	33.895	2	33.896	2	-0.395	-0.398	27.233	0.044	0.1	2	26.3	2	1.87	2	21.7	2	6.928	2	3.077	2	340.40	2	804	2	2148.7	2	-9	9	2282	2	1.40	43.0	4.0	-9	-9
331	2	149.5	33.974	2	-9	5	-0.041	-0.047	27.280	0.015	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	39.5	-9	0.018	0.016
330	2	198.5	34.124	2	34.126	2	1.088	1.080	27.336	0.007	0.0	2	31.0	2	2.12	2	37.5	2	4.181	2	1.903	2	268.94	2	980	2	2199.5	2	-9	9	-9	5	1.00	42.5	-9	0.007	0.004
329	2	249.0	34.283	2	34.284	2	2.044	2.030	27.395	0.008	0.0	2	33.6	2	2.32	2	50.9	2	2.270	2	0.999	2	216.75	2	1110	2	2215.7	2	-9	9	2307	2	0.70	-9	-9	-9	-9
328	2	290.5	34.344	2	34.346	2	2.117	2.101	27.438	0.011	0.0	2	34.5	2	2.35	2	57.0	2	1.757	2	0.789	2	202.83	2	1163	2	2227.4	2	-9	9	2312	2	0.60	46.3	2.5	-9	-9
327	2	400.0	34.456	2	34.456	2	2.135	2.113	27.527	0.009	0.0	2	34.7	2	2.34	2	67.0	2	1.059	2	0.466	2	184.03	2	1202	2	2245.2	2	-9	9	2332	2	0.50	40.7	-9	-9	-9
326	2	498.2	34.533	2	34.532	2	2.168	2.139	27.586	0.014	0.0	2	34.7	2	2.38	2	72.8	2	0.630	2	0.287	2	175.11	2	1217	2	2249.8	2	-9	9	2329	2	0.40	-9	-9	-9	-9
325	2	599.1	34.588	2	34.588	2	2.174	2.140	27.630	0.009	0.0	2	33.7	2	2.35	2	75.4	2	0.480	3	0.186	3	172.30	2	1199	2	2253.0	2	-9	9	2335	2	0.40	41.8	1.8	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	708.9	34.636	2	34.636	2	2.142	2.101	27.672	0.010	0.0	2	33.5	2	2.30	2	78.2	2	0.290	3	0.115	2	172.66	2	1181	2	2253.2	3	-9	9	2341	2	0.40	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	705.5	34.634	2	34.634	2	2.144	2.103	27.670	0.016	0.0	2	33.0	2	2.31	2	78.6	2	0.270	2	0.121	2	172.98	2	1176	2	2255.1	2	-9	9	2338	2	0.40	41.6	-9	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	893.0	34.684	2	34.685	2	2.047	1.994	27.719	0.010	0.0	2	32.1	2	2.24	2	81.4	2	0.165	2	0.069	2	177.76	2	1142	2	2254.3	2	-9	9	2350	2	0.40	-9	-9	-9	-9
318	2	998.4	34.701	2	34.701	2	1.981	1.921	27.738	0.015	0.0	2	31.7	2	2.21	2	84.1	2	0.139	2	0.056	2	-9	1	1118	2	2253.1	2	-9	9	2343	2	0.40	38.4	3.4	-9	-9
317	2	1193.5	34.722	2	34.724	2	1.844	1.771	27.767	0.011	0.0	2	30.9	2	2.15	2	88.5	2	0.040	2	0.018	2	185.30	2	1096	2	2252.8	2	-9	9	2363	2	0.50	-9	-9	-9	-9
316	2	1398.5	34.730	2	34.730	2	1.665	1.580	27.788	0.011	0.0	2	30.6	2	2.14	2	94.8	2	-9	1	-9	1	189.81	2	1071	2	2253.1	2	-9	9	-9	5	0.50	-9	-9	-9	-9
315	2	1599.4	34.730	2	34.730	2	1.498	1.400	27.801	0.010	0.0	2	30.6	2	2.15	2	99.1	2	0.072	2	0.025	2	192.46	2	1073	2	2255.1	2	-9	9	2357	2	0.50	-9	-9	-9	-9
314	2	1799.9	34.728	2	34.728	2	1.357	1.245	27.810	0.011	0.0	2	30.7	2	2.18	2	100.9	2	0.055	2	0.024	2	194.61	2	1064	2	2255.0	2	-9	9	2350	2	0.50	-9	-9	-9	-9
313	2	1994.4	34.724	2	34.725	2	1.239	1.114	27.816	0.008	0.0	2	31.3	2	2.22	2	105.4	2	0.050	6	0.021	6	196.48	2	1076	2	2258.3	2	-9	9	2354	2	0.50	-9	-9	-9	-9
312	2	2248.6	34.719	2	34.719	2	1.084	0.941	27.824	0.007	-9	1	-9	1	-9	1	-9	1	0.151	4	0.049	2	199.19	2	1071	6	2258.7	2	-9	9	-9	5	0.50	-9	-9	-9	-9
311	4	2497.1	34.715	2	-9	9	0.970	0.809	27.829	0.008	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	2258.7	2	-9	9	2366	2	-9	-9	-9	-9	-9
310	2	2747.9	34.711	2	34.710	2	0.847	0.667	27.834	0.005	0.0	2	31.6	2	2.24	2	120.9	2	0.072	2	0.017	2	203.57	2	1078	2	2257.9	2	-9	9	2363	2	0.40	-9	-9	-9	-9
309	2	2997.1	34.708	2	34.707	2	0.758	0.557	27.839	0.005	0.0	2	31.7	2	2.20	2	125.1	2	0.065	2	0.020	2	205.29	2	1073	2	2259.6	2	-9	9	-9	5	0.40	36.5	2.6	-9	-9
308	2	3289.3	34.705	2	34.705	2	0.628	0.404	27.845	0.004	0.0	2	31.5	2	2.24	2	126.9	2	0.071	2	0.031	2	208.00	2	1085	2	2260.1	2	-9	9	2361	2	0.50	-9	-9	-9	-9
307	2	3597.1	34.704	2	34.703	2	0.500	0.249	27.853	0.005	0.0	2	31.5	2	2.25	2	127.4	2	0.058	6	0.025	6	210.58	2	1082	2	2260.5	2	-9	9	2361	2	0.40	-9	-9	-9	-9
306	2	3892.4	34.703	2	34.702	2	0.422	0.145	27.859	0.003	0.0	2	31.7	2	2.24	2	130.4	2	0.168	4	0.032	2	212.58	2	1087	2	2260.5	3	-9	9	2367	2	0.40	-9	-9	-9	-9
305	2	4198.9	34.703	2	34.702	2	0.366	0.059	27.863	0.006	0.0	2	32.0	2	2.26	2	132.1	2	0.073	2	0.034	2	213.96	2	1081	2	2259.8	2	-9	9	-9	5	0.50	36.4	-9	-9	-9
304	3	4497.4	34.703	2	34.701	2	0.349	0.011	27.866	0.003	0.0	2	32.1	2	2.21	2	137.9	2	0.092	6	0.038	6	215.21	2	1087	2	2261.2	2	-9	9	-9	5	0.40	-9	-9	-9	-9
303	2	4496.5	34.703	2	34.704	2	0.349	0.010	27.866	0.003	0.0	2	31.9	2	2.22	2	138.3	2	0.086	2	0.044	2	215.05	2	1067	2	2260.8	2	-9	9	2360	2	0.40	-9	-9	-9	-9
302	3	4809.5	34.702	2	34.702	2	0.357	-0.017	27.867	0.014	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	215.69	2	1074	2	2262.6	2	-9	9	2360	2	0.30	-9	-9	-9	-9
301	2	-9	-9	9	-9	1	-9	-9	-9	-9	0.0	2	32.2	2	2.24	2	138.2	2	0.123	2	0.058	6	215.18	2	1080	2	2263.4	2	-9	9	-9	5	0.50	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 11 DATE 2/28/94 LATITUDE 66°29.8'S Btm Depth: 4806
CAST 1/2 LONGITUDE 103°0.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
213	2	12.3	33.570	2	33.573	2	1.719	1.719	26.847	0.08	0.3	2	21	2	1.5	2	5.4	2	-9	9	-9	9	329.06	2	703	2	2117.7	2	-9	9	2278	2	-9	-9	-9	-9	-9
212	2	23.6	33.571	2	33.572	2	1.720	1.719	26.848	0.09	0.31	2	21	2	1.51	2	5.27	2	-9	9	-9	9	328.94	2	703	2	-9.0	9	-9	9	-9	9	-9	-9	-9	-9	-9
211	2	46.7	33.588	2	33.591	2	1.343	1.340	26.888	0.08	0.29	2	22	2	1.58	2	6.3	2	-9	9	-9	9	332.5	2	704	2	2120.8	2	-9	9	2272	2	-9	-9	-9	-9	-9
210	2	73.9	33.773	2	33.771	2	-1.469	-1.470	27.174	0.08	0.25	2	25	2	1.86	2	23.15	2	-9	9	-9	9	349.57	2	800	2	-9.0	9	-9	9	-9	9	-9	-9	-9	-9	-9
209	2	98.7	33.831	2	33.837	2	-1.263	-1.265	27.215	0.04	0.22	2	26	2	1.87	2	25.01	2	-9	9	-9	9	345.22	6	812	2	2151.0	2	-9	9	2282	2	-9	-9	-9	-9	-9
208	2	151.4	33.949	2	33.949	2	-0.545	-0.550	27.284	0.02	0.0	2	28	2	1.96	2	29.09	2	-9	9	-9	9	324.64	2	865	2	-9.0	9	-9	9	-9	9	-9	-9	-9	-9	-9
207	2	201.9	34.197	2	34.195	2	1.237	1.227	27.385	0.01	0.0	2	32	2	2.25	2	47.72	2	-9	9	-9	9	247.48	2	1048	2	-9.0	9	-9	9	2350	2	-9	-9	-9	-9	-9
206	2	297.4	34.405	2	34.407	2	1.945	1.929	27.500	0.01	0.01	2	35	2	2.4	2	64.83	2	-9	9	-9	9	195.18	2	-9	9	2236.9	2	-9	9	-9	5	-9	-9	-9	-9	-9
205	2	402.0	34.500	2	34.500	2	2.078	2.056	27.567	0.01	0.0	2	34	2	2.35	2	71.62	2	-9	9	-9	9	180.22	2	1224	2	2250.7	2	-9	9	2372	2	-9	-9	-9	-9	-9
204	2	498.3	34.565	2	34.563	2	2.104	2.076	27.617	0.01	0.03	2	35	2	2.4	2	76.61	2	-9	9	-9	9	174.35	2	1213	2	2252.3	2	-9	9	-9	5	-9	-9	-9	-9	-9
203	2	597.8	34.613	2	34.612	2	2.088	2.053	27.657	0.01	0.0	2	35	2	2.36	2	79.79	2	-9	9	-9	9	173.35	2	1200	2	2253.1	2	-9	9	2340	2	-9	-9	-9	-9	-9
202	2	698.2	34.655	2	34.654	2	2.098	2.057	27.691	0.01	0.0	2	33	2	2.31	2	82.44	2	-9	9	-9	9	174.15	2	1168	2	2253.5	2	-9	9	2342	2	-9	-9	-9	-9	-9
201	2	802.3	34.677	2	34.677	2	2.033	1.985	27.714	0.01	0.0	2	32	2	2.26	2	84.51	2	-9	9	-9	9	176.48	2	1150	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
136	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
135	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
134	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
132	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	697.9	34.654	2	-9	5	2.098	2.057	27.690	0.007	0.0	2	34.2	2	2.36	2	83.9	2	-9	9	-9	9	173.80	2	1156	2	2252.9	2	-9	9	2339	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	901.6	34.693	2	34.693	2	2.000	1.947	27.730	0.013	0.0	2	32.4	2	2.22	2	84.7	2	-9	9	-9	9	178.77	2	1134	2	2252.2	2	-9	9	2343	2	-9	-9	-9	-9	-9
118	2	996.1	34.705	2	34.705	2	1.936	1.876	27.745	0.010	0.1	2	32.2	2	2.04	4	91.7	2	-9	9	-9	9	180.69	2	1118	2	2251.7	2	-9	9	2346	2	-9	-9	-9	-9	-9
117	2	1197.5	34.725	2	34.724	2	1.801	1.728	27.773	0.011	0.0	2	32.6	2	2.14	2	92.2	2	-9	9	-9	9	186.14	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1397.0	34.731	2	34.730	2	1.658	1.573	27.789	0.009	0.0	2	31.4	2	2.16	2	96.0	2	-9	9	-9	9	189.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1601.7	34.730	2	34.730	2	1.490	1.392	27.802	0.010	0.0	2	31.3	2	2.16	2	99.3	2	-9	9	-9	9	192.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1799.6	34.728	2	34.727	2	1.348	1.237	27.811	0.009	0.0	2	31.4	2	2.18	2	102.9	2	-9	9	-9	9	194.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1980.6	34.725	2	34.724	2	1.245	1.121	27.816	0.006	0.1	2	31.6	2	2.19	2	106.6	2	-9	9	-9	9	196.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2200.2	34.721	2	34.720	2	1.118	0.979	27.822	0.008	0.0	2	31.7	2	2.26	2	111.0	2	-9	9	-9	9	198.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2498.2	34.715	2	34.714	2	0.972	0.811	27.829	0.008	0.0	2	32.6	2	2.27	2	116.7	2	-9	9	-9	9	201.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2745.6	34.711	2	34.710	2	0.864	0.684	27.834	0.006	0.0	2	32.2	2	2.28	2	121.1	2	-9	9	-9	9	203.07	2	1076	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2999.0	34.709	2	34.708	2	0.776	0.576	27.838	0.006	0.0	2	32.1	2	2.27	2	124.4	2	-9	9	-9	9	205.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3300.8	34.706	2	34.704	2	0.651	0.425	27.845	0.005	0.0	2	32.3	2	2.26	2	127.1	2	-9	9	-9	9	207.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3600.0	34.705	2	34.702	2	0.538	0.287	27.852	0.003	0.0	2	32.3	2	2.24	2	129.9	2	-9	9	-9	9	209.67	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3898.4	34.703	2	34.702	2	0.452	0.173	27.857	0.002	0.0	2	33.0	2	2.09	4	133.6	2	-9	9	-9	9	211.87	2	1086	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	4196.6	34.703	2	34.701	2	0.404	0.096	27.862	0.002	0.0	2	32.2	2	2.28	2	133.7	2	-9	9	-9	9	213.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4497.9	34.703	2	34.701	2	0.376	0.036	27.865	0.002	0.0	2	32.5	2	2.30	2	134.0	2	-9	9	-9	9	214.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4499.0	34.703	2	34.702	2	0.376	0.036	27.865	0.003	0.0	2	32.5	2	2.29	2	134.7	2	-9	9	-9	9	214.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4876.0	34.702	2	34.701	2	0.370	-0.012	27.867	0.010	0.0	2	32.6	2	2.27	2	141.8	2	-9	9	-9	9	214.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4876.2	34.703	2	34.701	2	0.370	-0.012	27.867	0.010	0.0	2	32.3	2	2.27	2	142.5	2	-9	9	-9	9	216.96	2	1085	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 12 DATE 2/28/94 LATITUDE 66°0.0'S Btm Depth: 4859
CAST 1 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C atm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.1	33.632	2	33.634	2	1.656	1.655	26.901	0.062	0.3	2	22.3	2	1.62	2	10.0	2	6.480	2	2.908	2	329.26	2	724	2	2123.2	2	-9	9	-9	5	1.70	-9	-9	-9	-9
135	2	25.1	33.632	2	33.635	2	1.658	1.656	26.901	0.062	0.3	2	22.3	2	1.61	2	10.0	2	6.512	2	2.868	2	329.12	2	722	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
134	2	46.1	33.675	2	33.679	2	1.494	1.492	26.947	0.066	0.3	2	22.7	2	1.65	2	11.4	2	6.596	2	2.959	2	330.41	2	732	2	-9	9	-9	9	-9	9	-9	44.2	-9	-9	-9
133	2	74.9	33.807	2	33.808	2	-0.705	-0.707	27.175	0.050	0.2	2	24.6	2	1.82	2	18.8	2	7.343	2	3.219	2	348.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
132	2	100.7	33.861	2	33.861	2	-0.549	-0.552	27.212	0.037	0.2	2	25.4	2	1.87	2	22.2	2	7.129	6	3.133	6	345.37	2	790	2	-9	9	-9	9	-9	9	-9	40.3	-9	-9	-9
131	4	143.7	33.951	2	-9	9	-0.172	-0.177	27.268	0.018	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	45.5	-9	-9	-9
130	4	199.0	34.109	2	-9	9	1.024	1.015	27.328	0.010	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	38.9	-9	-9	-9
129	2	300.9	34.368	2	34.366	2	2.134	2.118	27.456	0.008	0.0	2	34.2	2	2.35	2	59.1	2	1.915	3	0.706	6	199.47	2	1177	2	-9	9	-9	9	-9	9	-9	39.2	-9	-9	-9
128	2	366.3	34.438	2	34.440	2	2.236	2.216	27.504	0.010	0.0	2	34.3	2	2.37	2	65.5	2	2.332	4	0.463	2	184.89	2	-9	9	-9	9	-9	9	-9	9	-9	40.7	-9	-9	-9
127	2	496.3	34.526	2	34.526	2	2.198	2.170	27.578	0.008	0.0	2	34.3	2	2.37	2	72.8	2	1.441	4	0.282	6	175.44	6	1212	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	605.2	34.584	2	34.585	2	2.170	2.135	27.628	0.009	0.0	2	34.1	2	2.36	2	77.3	2	1.763	4	0.190	2	172.53	2	-9	9	-9	9	-9	9	-9	9	-9	38.9	-9	-9	-9
125	2	695.9	34.622	2	34.624	2	2.159	2.118	27.659	0.008	0.0	2	33.7	2	2.29	2	79.8	2	0.636	3	0.132	6	172.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	800.2	34.654	2	34.654	2	2.119	2.072	27.689	0.012	0.0	2	34.4	2	2.26	2	82.2	2	0.326	4	0.100	2	174.05	2	-9	9	-9	9	-9	9	-9	9	-9	46.8	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	895.2	34.679	2	34.679	2	2.070	2.017	27.713	0.013	0.0	2	32.3	2	2.24	2	84.4	2	0.222	4	0.073	2	176.42	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	995.4	34.695	2	34.696	2	2.017	1.956	27.731	0.012	0.0	2	31.6	2	2.21	2	85.8	2	0.203	4	0.057	6	179.07	2	-9	9	-9	9	-9	9	-9	9	-9	36.1	-9	-9	-9
118	2	1199.5	34.719	2	34.719	2	1.881	1.807	27.761	0.011	0.0	2	30.8	2	2.17	2	85.1	2	-9	1	-9	1	184.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	1398.2	34.729	2	34.728	2	1.733	1.646	27.782	0.008	0.0	2	30.6	2	2.14	2	89.5	2	0.079	2	0.037	2	187.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1603.0	34.731	2	34.731	2	1.574	1.475	27.796	0.010	0.0	2	30.7	2	2.15	2	95.3	2	0.164	4	0.024	2	190.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1796.0	34.730	2	34.730	2	1.437	1.325	27.806	0.010	0.0	2	30.9	2	2.16	2	99.5	2	0.302	4	0.030	6	193.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	2003.2	34.726	2	34.726	2	1.299	1.173	27.814	0.010	0.0	2	31.1	2	2.17	2	104.4	2	0.125	4	0.017	2	195.19	2	-9	9	-9	9	-9	9	-9	9	-9	45.7	-9	-9	-9
113	2	2245.9	34.722	2	34.722	2	1.159	1.015	27.821	0.007	0.0	2	31.1	2	2.19	2	109.7	2	0.145	4	0.013	6	197.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2500.5	34.717	2	34.716	2	1.019	0.857	27.827	0.008	0.0	2	31.3	2	2.20	2	115.1	2	0.149	4	0.012	2	200.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2753.0	34.712	2	34.712	2	0.901	0.720	27.832	0.004	0.0	2	31.5	2	2.24	2	118.7	2	0.245	4	0.015	2	202.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2999.2	34.709	2	34.708	2	0.808	0.607	27.837	0.005	0.0	2	31.5	2	2.21	2	121.5	2	0.160	4	0.013	2	204.33	2	-9	9	-9	9	-9	9	-9	9	-9	39.3	-9	-9	-9
109	2	3246.1	34.707	2	34.706	2	0.711	0.489	27.842	0.004	0.0	2	31.4	2	2.22	2	123.7	2	0.074	2	0.022	2	206.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3500.4	34.705	2	34.705	2	0.604	0.360	27.848	0.005	0.0	2	31.8	2	2.21	2	126.6	2	0.044	2	0.020	2	208.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3749.7	34.704	2	34.703	2	0.519	0.253	27.854	0.004	0.0	2	31.9	2	2.23	2	128.8	2	0.068	6	0.022	6	210.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3997.3	34.704	2	34.702	2	0.460	0.170	27.858	0.004	0.0	2	32.0	2	2.23	2	131.6	2	0.314	4	0.024	2	211.78	2	-9	9	-9	9	-9	9	-9	9	-9	36.2	-9	-9	-9
105	2	4250.1	34.703	2	34.702	2	0.416	0.101	27.861	0.002	0.0	2	32.1	2	2.24	2	133.4	2	0.508	4	0.081	4	213.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4500.4	34.703	2	34.703	2	0.384	0.044	27.864	0.003	0.0	2	32.1	2	2.17	2	135.5	2	0.718	4	0.033	2	214.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4747.8	34.703	2	34.701	2	0.376	0.008	27.866	0.003	0.0	2	32.7	2	2.24	2	137.4	2	0.076	2	0.028	2	215.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4748.4	34.703	2	34.704	2	0.376	0.008	27.866	0.003	0.0	2	32.0	2	2.24	2	137.6	2	0.106	2	0.041	2	215.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4927.0	34.703	2	34.701	2	0.377	-0.011	27.867	0.009	0.0	2	32.2	2	2.20	2	142.3	2	0.102	6	0.053	6	215.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 13 DATE 2/28/94 LATITUDE 65°30.0'S Btm Depth: 4897
CAST 1 LONGITUDE 102°60.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	33.707	2	33.709	2	2.057	2.057	26.931	0.051	0.3	2	24.3	2	1.67	2	11.7	2	-9	9	-9	9	328.58	2	727	6	2128.3	2	-9	9	2275	2	-9	-9	-9	0.044	0.016
135	2	26.6	33.707	2	33.708	2	2.057	2.056	26.932	0.051	0.3	2	23.1	2	1.66	2	11.8	2	-9	9	-9	9	328.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.045	0.016
134	2	50.0	33.702	2	33.710	2	1.999	1.996	26.932	0.057	0.3	2	23.9	2	1.67	2	11.9	2	-9	9	-9	9	328.66	2	713	6	2128.7	2	-9	9	2278	2	-9	44.3	-9	0.041	0.015
133	3	73.2	33.804	2	33.806	2	-0.786	-0.788	27.176	0.044	0.2	2	24.9	2	1.83	2	18.3	2	-9	9	-9	9	350.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.062	0.022
132	2	99.3	33.898	2	33.896	2	-0.169	-0.173	27.225	0.041	0.2	2	26.2	2	1.87	2	20.6	2	-9	9	-9	9	342.28	2	794	6	2149.5	2	-9	9	2297	2	-9	46.0	-9	-9	-9
131	3	149.3	33.966	2	-9	5	0.018	0.013	27.271	0.028	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	2	200.8	34.094	2	34.083	2	1.001	0.993	27.317	0.022	0.0	2	29.6	2	2.09	2	33.5	2	-9	9	-9	9	283.89	2	-9	9	2181.3	2	-9	9	2287	2	-9	41.4	-9	0.018	0.018
129	2	250.3	34.259	2	34.259	2	1.992	1.979	27.379	0.011	0.0	2	33.9	2	2.28	2	48.8	2	-9	9	-9	9	225.60	2	1054	6	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	296.3	34.333	2	34.332	2	2.147	2.131	27.427	0.009	0.0	2	33.6	2	2.35	2	55.4	2	-9	9	-9	9	206.40	2	-9	9	2226.1	2	-9	9	2310	2	-9	-9	-9	-9	-9
127	2	402.4	34.431	2	34.430	2	2.136	2.113	27.507	0.012	0.0	2	34.3	2	2.36	2	65.1	2	-9	9	-9	9	189.10	2	-9	9	2240.9	2	-9	9	2334	2	-9	41.9	-9	-9	-9
126	2	496.1	34.506	2	34.506	2	2.150	2.121	27.566	0.009	0.0	2	34.0	2	2.37	2	71.3	2	-9	9	-9	9	179.85	2	1191	6	2249.3	2	-9	9	2323	2	-9	-9	-9	-9	-9
125	2	598.9	34.573	2	34.573	2	2.197	2.162	27.617	0.009	0.0	2	34.1	2	2.35	2	74.2	2	-9	9	-9	9	173.60	2	-9	9	2253.4	2	-9	9	2341	2	-9	43.6	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	699.5	34.617	2	34.617	2	2.173	2.131	27.655	0.010	0.0	2	33.4	2	2.33	2	76.6	2	-9	9	-9	9	173.04	2	-9	9	2254.9	2	-9	9	2337	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	797.0	34.648	2	34.648	2	2.140	2.092	27.682	0.012	0.0	2	32.8	2	2.29	2	79.2	2	-9	9	-9	9	174.17	2	1173	2	2255.2	2	-9	9	2346	2	-9	36.9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	836.4	34.658	2	34.659	2	2.119	2.069	27.692	0.009	0.0	2	32.6	2	2.27	2	80.5	2	-9	9	-9	9	175.22	2	-9	9	2255.4	2	-9	9	2344	2	-9	-9	-9	-9	-9
118	2	997.2	34.694	2	34.693	2	2.030	1.970	27.729	0.011	0.0	2	31.6	2	2.23	2	83.0	2	-9	9	-9	9	179.25	2	1105	2	2254.9	2	-9	9	2348	2	-9	37.4	-9	-9	-9
117	2	1204.3	34.716	2	34.715	2	1.911	1.837	27.757	0.010	0.0	2	32.9	2	2.19	2	86.5	2	-9	9	-9	9	184.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1399.2	34.728	2	34.728	2	1.758	1.672	27.779	0.010	0.0	2	31.6	2	2.16	2	91.1	2	-9	9	-9	9	188.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1598.4	34.730	2	34.731	2	1.593	1.494	27.794	0.010	0.0	2	31.6	2	2.18	2	96.6	2	-9	9	-9	9	192.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1796.6	34.729	2	34.729	2	1.445	1.332	27.805	0.010	0.0	2	32.2	2	2.14	2	101.8	2	-9	9	-9	9	193.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1998.9	34.726	2	34.726	2	1.314	1.188	27.812	0.009	0.0	2	31.1	2	2.17	2	105.1	2	-9	9	-9	9	196.22	2	-9	9	-9	9	-9	9	-9	9	-9	39.3	-9	-9	-9
112	2	2250.6	34.722	2	34.721	2	1.167	1.023	27.820	0.006	0.0	2	31.1	2	2.17	2	108.5	2	-9	9	-9	9	198.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2496.9	34.717	2	34.717	2	1.033	0.871	27.827	0.008	0.0	2	31.2	2	2.19	2	112.1	2	-9	9	-9	9	201.41	2	1062	6	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2749.3	34.713	2	34.712	2	0.920	0.738	27.832	0.008	0.0	2	31.9	2	2.20	2	117.0	2	-9	9	-9	9	203.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2995.7	34.709	2	34.708	2	0.812	0.610	27.837	0.005	0.0	2	35.1	4	2.21	2	121.9	2	-9	9	-9	9	205.71	2	-9	9	-9	9	-9	9	-9	9	-9	41.3	-9	-9	-9
108	2	3245.6	34.707	2	34.706	2	0.714	0.492	27.842	0.004	0.0	2	31.4	2	2.22	2	124.7	2	-9	9	-9	9	208.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3499.1	34.705	2	34.704	2	0.607	0.363	27.848	0.004	0.0	2	31.8	2	2.24	2	127.1	2	-9	9	-9	9	209.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3748.7	34.704	2	34.702	2	0.507	0.242	27.854	0.005	0.0	2	31.8	2	2.23	2	129.6	2	-9	9	-9	9	212.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	3	3996.0	34.704	2	-9	5	0.438	0.149	27.859	0.003	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4250.4	34.703	2	34.702	2	0.393	0.079	27.863	0.002	0.0	2	37.2	4	2.25	2	133.6	2	-9	9	-9	9	215.17	2	1074	6	-9	9	-9	9	-9	9	-9	39.1	-9	-9	-9
103	2	4500.0	34.703	2	34.701	2	0.370	0.030	27.865	0.003	0.0	2	34.1	4	2.24	2	134.7	2	-9	9	-9	9	216.30	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4749.1	34.703	2	34.701	2	0.363	-0.004	27.866	0.005	0.0	2	31.9	2	2.22	2	136.0	2	-9	9	-9	9	217.23	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4972.8	34.702	2	34.701	2	0.370	-0.023	27.867	0.009	0.0	2	32.6	2	2.24	2	143.1	2	-9	9	-9	9	216.31	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 14 DATE 2/28/94 LATITUDE 65°0.0'S Btm Depth: 4949
CAST 1 LONGITUDE 102°59.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.5	33.819	2	-9	5	2.635	2.635	26.974	0.058	0.2	2	23.4	2	1.71	2	8.7	2	6.018	2	2.725	2	322.40	2	706	2	2125.8	2	-9	9	2285	2	1.70	-9	-9	-9	-9
135	2	25.1	33.819	2	33.820	2	2.638	2.637	26.974	0.063	0.2	2	22.8	2	1.66	2	8.5	2	6.023	2	2.762	2	322.33	2	648	3	2126.6	2	-9	9	-9	5	-9	-9	-9	-9	-9
134	2	49.8	33.824	2	33.826	2	2.640	2.637	26.978	0.059	0.2	2	22.9	2	1.67	2	8.8	2	6.018	2	2.715	2	322.27	2	706	6	2128.0	2	-9	9	2279	2	-9	-9	-9	-9	-9
133	2	73.1	33.907	2	33.907	2	0.839	0.836	27.177	0.065	0.2	2	24.3	2	1.80	2	15.7	2	6.578	2	2.894	2	339.26	2	-9	9	2142.0	2	-9	9	2278	2	-9	-9	-9	-9	-9
132	2	98.2	33.949	2	33.952	2	0.452	0.448	27.234	0.054	0.2	2	25.8	2	1.89	2	21.1	2	6.463	2	2.919	2	335.91	2	795	6	2149.5	2	-9	9	-9	5	-9	-9	-9	-9	-9
131	2	150.2	33.975	2	33.978	2	0.155	0.150	27.271	0.019	0.1	2	29.4	2	1.94	2	23.9	2	6.266	2	2.734	2	325.31	2	849	2	2162.9	3	-9	9	-9	5	-9	-9	-9	-9	-9
130	2	197.1	34.021	2	34.020	2	0.385	0.377	27.295	0.011	0.0	2	29.0	2	1.98	2	26.6	2	5.693	2	2.599	2	311.70	2	876	2	2167.6	3	-9	9	2300	2	-9	-9	-9	-9	-9
129	2	298.6	34.317	2	34.317	2	2.260	2.243	27.405	0.008	0.0	2	33.5	2	2.33	2	51.7	2	1.908	3	0.808	2	207.68	2	1145	2	2224.6	3	-9	9	-9	5	-9	-9	-9	-9	-9
128	2	399.4	34.431	2	34.432	2	2.335	2.312	27.491	0.008	0.0	2	34.2	2	2.37	2	62.3	2	1.011	2	0.440	2	185.85	2	1188	2	2242.4	3	-9	9	2320	2	-9	-9	-9	-9	-9
127	2	502.5	34.496	2	34.497	2	2.281	2.252	27.547	0.007	0.0	2	34.3	2	2.40	2	68.2	2	1.197	4	0.309	2	178.18	2	1208	6	2282.4	3	-9	9	2320	2	-9	-9	-9	-9	-9
126	2	603.0	34.552	2	34.552	2	2.210	2.175	27.599	0.016	0.0	2	34.1	2	2.38	2	72.9	2	0.566	3	0.236	2	175.35	2	1199	2	2256.9	3	-9	9	2343	2	-9	-9	-9	-9	-9
125	2	698.8	34.601	2	34.600	2	2.209	2.168	27.638	0.011	0.0	2	33.7	2	2.33	2	76.3	2	0.392	3	0.137	2	172.96	2	-9	9	2256.1	3	-9	9	2328	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	799.2	34.634	2	34.634	2	2.147	2.099	27.671	0.009	0.0	2	33.0	2	2.32	2	78.6	2	0.449	4	0.122	2	173.66	2	1179	2	2292.0	3	-9	9	2335	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	898.4	34.661	2	34.661	2	2.112	2.058	27.696	0.016	0.0	2	32.8	2	2.28	2	80.4	2	0.334	4	0.087	2	175.06	2	-9	9	2256.6	3	-9	9	2348	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	998.7	34.685	2	34.685	2	2.064	2.003	27.719	0.013	0.0	2	32.3	2	2.24	2	82.2	2	0.182	3	0.062	2	177.86	2	1132	6	2255.7	2	-9	9	-9	5	-9	-9	-9	-9	-9
118	2	1197.1	34.712	2	34.712	2	1.942	1.868	27.751	0.009	0.0	2	31.3	2	2.20	2	86.7	2	0.139	3	0.048	6	182.64	2	1110	2	2251.8	2	-9	9	2354	2	-9	-9	-9	-9	-9
117	2	1398.4	34.727	2	34.725	2	1.792	1.705	27.776	0.010	0.0	2	31.1	2	2.17	2	90.9	2	0.127	3	0.033	2	187.39	2	1083	2	2253.5	2	-9	9	2337	2	-9	-9	-9	-9	-9
116	2	1601.0	34.731	2	34.730	2	1.632	1.532	27.792	0.010	0.0	2	30.9	2	2.16	2	96.2	2	0.144	4	0.028	2	190.71	2	1074	6	2254.2	2	-9	9	2355	2	-9	-9	-9	-9	-9
115	2	1801.5	34.730	2	34.730	2	1.483	1.369	27.803	0.007	0.0	2	31.0	2	2.16	2	101.0	2	0.070	4	0.019	2	193.17	2	-9	9	2256.1	2	-9	9	2365	2	-9	-9	-9	-9	-9
114	2	1995.5	34.728	2	34.727	2	1.364	1.237	27.811	0.006	0.0	2	31.3	2	2.16	2	104.4	2	0.136	4	0.018	2	195.19	2	1070	6	2257.6	2	-9	9	2355	2	-9	-9	-9	-9	-9
113	2	2249.4	34.723	2	34.724	2	1.198	1.054	27.819	0.006	0.0	2	31.2	2	2.20	2	109.5	2	0.049	6	0.016	6	197.87	2	1070	6	2258.2	2	-9	9	2357	2	-9	-9	-9	-9	-9
112	3	2499.6	34.718	2	-9	5	1.042	0.879	27.826	0.006	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2752.2	34.713	2	34.712	2	0.927	0.745	27.831	0.006	0.0	2	31.6	2	2.23	2	119.1	2	0.065	4	0.017	2	203.03	2	-9	9	2260.1	2	-9	9	2350	2	-9	-9	-9	-9	-9
110	2	2998.4	34.710	2	34.709	2	0.820	0.619	27.836	0.005	0.0	2	30.6	2	2.20	2	123.3	2	0.132	2	0.021	2	205.02	2	1080	6	2258.9	2	-9	9	2365	2	-9	-9	-9	-9	-9
109	2	3223.0	34.707	2	34.706	2	0.740	0.519	27.841	0.005	0.0	2	32.2	2	2.21	2	125.4	2	0.190	4	0.021	2	206.57	2	-9	9	2261.2	2	-9	9	2362	2	-9	-9	-9	-9	-9
108	2	3495.6	34.705	2	34.704	2	0.630	0.386	27.847	0.001	0.0	2	32.2	2	2.23	2	126.9	2	0.154	4	0.033	2	208.75	2	1083	6	2258.8	2	-9	9	2360	2	-9	-9	-9	-9	-9
107	2	3749.4	34.704	2	34.703	2	0.522	0.256	27.853	0.003	0.0	2	31.6	2	2.23	2	127.6	2	0.099	3	0.030	2	211.43	2	-9	9	2259.2	2	-9	9	2361	2	-9	-9	-9	-9	-9
106	2	4000.6	34.703	2	34.702	2	0.444	0.155	27.858	0.003	0.0	2	32.2	2	2.23	2	129.0	2	0.061	2	0.030	6	213.41	2	1076	6	2259.4	2	-9	9	2368	2	-9	-9	-9	-9	-9
105	2	4237.4	34.703	2	34.701	2	0.399	0.087	27.862	0.002	0.0	2	31.5	2	2.24	2	130.8	2	0.092	2	0.041	2	214.62	2	1089	2	2260.9	2	-9	9	2373	2	-9	-9	-9	-9	-9
104	2	4499.7	34.703	2	34.701	2	0.373	0.033	27.865	0.001	0.0	2	31.7	2	2.24	2	133.1	2	3.053	4	0.038	2	215.69	2	1079	6	2260.0	2	-9	9	2360	2	-9	-9	-9	-9	-9
103	3	4751.7	34.703	2	-9	5	0.368	0.001	27.867	0.003	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4749.0	34.703	2	34.701	2	0.368	0.001	27.866	0.001	0.0	2	31.6	2	2.25	2	135.0	2	0.155	3	0.047	2	216.13	2	1082	2	2261.2	2	-9	9	2363	2	-9	-9	-9	-9	-9
101	2	5025.1	34.702	2	-9	9	0.375	-0.024	27.867	0.009	-9	1	-9	1	-9	1	-9	1	0.141	6	0.063	6	215.93	2	1074	2	2263.4	2	-9	9	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 15 DATE 3/1/94 LATITUDE 64°29.9'S Btm Depth: 4978
CAST 1 LONGITUDE 102°59.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.9	33.856	2	33.858	2	2.655	2.655	27.002	0.053	0.2	2	22.9	2	1.70	2	9.2	2	-9	9	-9	9	322.10	2	635	3	2130.0	2	-9	9	2281	2	-9	-9	-9	-9	-9
135	2	26.0	33.858	2	33.858	2	2.652	2.651	27.004	0.055	0.2	2	22.7	2	1.70	2	9.2	2	-9	9	-9	9	322.08	2	710	2	2126.9	2	-9	9	2285	2	-9	-9	-9	-9	-9
134	2	50.3	33.859	2	33.859	2	2.647	2.644	27.006	0.052	0.2	2	22.8	2	1.70	2	9.2	2	-9	9	-9	9	322.23	2	709	2	2127.6	2	-9	9	2282	2	-9	-9	-9	-9	-9
133	2	74.6	33.985	2	33.983	2	1.548	1.544	27.193	0.061	0.2	2	24.3	2	1.89	2	13.3	2	-9	9	-9	9	328.51	2	749	2	2139.8	2	-9	9	2279	2	-9	-9	-9	-9	-9
132	2	99.0	34.012	2	34.012	2	1.263	1.258	27.234	0.056	0.5	2	25.7	2	1.89	2	17.3	2	-9	9	-9	9	324.27	2	781	2	2147.0	2	-9	9	2288	2	-9	-9	-9	-9	-9
131	2	150.6	34.012	2	34.013	2	1.145	1.138	27.242	0.024	0.0	2	26.6	2	1.89	2	18.2	2	-9	9	-9	9	322.12	2	804	2	2149.1	2	-9	9	2283	2	-9	-9	-9	-9	-9
130	2	200.6	34.010	2	34.014	2	0.948	0.939	27.254	0.017	0.0	2	26.9	2	1.90	2	19.8	2	-9	9	-9	9	320.57	2	824	2	2153.1	2	-9	9	2292	2	-9	-9	-9	-9	-9
129	2	297.8	34.238	2	34.237	2	2.299	2.282	27.338	0.014	0.0	2	31.6	2	2.21	2	41.1	2	-9	9	-9	9	229.91	6	1048	2	2201.3	2	-9	9	2324	2	-9	-9	-9	-9	-9
128	2	401.5	34.379	2	34.379	2	2.482	2.459	27.437	0.013	0.0	2	33.3	2	2.32	2	55.9	2	-9	9	-9	9	193.51	2	1150	2	2228.2	2	-9	9	2317	2	-9	-9	-9	-9	-9
127	2	485.8	34.437	2	34.436	2	2.413	2.384	27.489	0.006	0.0	2	33.7	2	2.36	2	62.0	2	-9	9	-9	9	184.06	2	1189	2	2237.7	2	-9	9	2324	2	-9	-9	-9	-9	-9
126	2	599.2	34.517	2	34.516	2	2.324	2.289	27.561	0.013	0.0	2	34.6	2	2.37	2	68.4	2	-9	9	-9	9	175.82	2	1198	2	2246.8	2	-9	9	2331	2	-9	-9	-9	-9	-9
125	2	698.2	34.564	2	34.563	2	2.239	2.198	27.606	0.010	0.0	2	33.3	2	2.35	2	72.1	2	-9	9	-9	9	173.13	2	1207	2	2251.7	2	-9	9	-9	5	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	799.4	34.608	2	34.607	2	2.167	2.119	27.648	0.014	0.0	2	32.8	2	2.32	2	76.0	2	-9	9	-9	9	173.63	2	1185	2	2253.7	2	-9	9	-9	5	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	895.9	34.644	2	34.644	2	2.164	2.110	27.677	0.010	0.0	2	32.5	2	2.28	2	78.5	2	-9	9	-9	9	173.99	2	1165	2	2254.6	2	-9	9	2343	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	997.6	34.667	2	34.666	2	2.106	2.045	27.701	0.013	0.0	2	32.3	2	2.27	2	80.6	2	-9	9	-9	9	175.82	6	1146	2	2255.1	2	-9	9	2345	2	-9	-9	-9	-9	-9
118	2	1201.6	34.703	2	34.702	2	2.006	1.932	27.739	0.010	0.0	2	31.1	2	2.21	2	86.1	2	-9	9	-9	9	181.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	1397.8	34.722	2	34.721	2	1.863	1.776	27.767	0.009	0.0	2	30.6	2	2.17	2	89.9	2	-9	9	-9	9	186.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1600.3	34.730	2	34.729	2	1.709	1.608	27.785	0.008	0.0	2	30.5	2	2.17	2	94.1	2	-9	9	-9	9	189.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1799.5	34.730	2	34.730	2	1.536	1.423	27.799	0.007	0.0	2	30.4	2	2.18	2	99.5	2	-9	9	-9	9	192.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1990.7	34.727	2	34.726	2	1.406	1.279	27.807	0.007	0.0	2	30.7	2	2.17	2	104.5	2	-9	9	-9	9	195.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	2247.8	34.724	2	34.723	2	1.254	1.109	27.816	0.008	0.0	2	32.6	4	2.18	2	109.1	2	-9	9	-9	9	197.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2497.8	34.719	2	34.718	2	1.094	0.931	27.825	0.005	0.0	2	30.6	2	2.20	2	111.5	2	-9	9	-9	9	200.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2748.6	34.715	2	34.713	2	0.966	0.783	27.830	0.005	0.0	2	30.6	2	2.21	2	115.7	2	-9	9	-9	9	202.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	3003.6	34.710	2	34.708	2	0.857	0.654	27.835	0.004	0.0	2	30.8	2	2.22	2	120.0	2	-9	9	-9	9	204.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	3243.8	34.708	2	34.705	2	0.755	0.532	27.840	0.003	0.0	2	31.2	2	2.23	2	124.0	2	-9	9	-9	9	206.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3497.6	34.706	2	34.703	2	0.633	0.389	27.847	0.003	0.0	2	31.5	2	2.24	2	126.9	2	-9	9	-9	9	208.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3727.0	34.705	2	34.702	2	0.556	0.291	27.852	0.000	0.0	2	31.7	2	2.25	2	129.7	2	-9	9	-9	9	210.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	4001.0	34.704	2	34.701	2	0.467	0.177	27.858	0.000	0.0	2	31.5	2	2.24	2	131.5	2	-9	9	-9	9	212.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	4247.9	34.703	2	34.701	2	0.402	0.088	27.862	0.003	0.0	2	31.5	2	2.25	2	133.5	2	-9	9	-9	9	214.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4502.0	34.703	2	34.701	2	0.375	0.034	27.865	0.001	0.0	2	31.4	2	2.26	2	135.4	2	-9	9	-9	9	215.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4749.8	34.701	2	34.701	2	0.374	0.006	27.865	0.003	0.0	2	31.5	2	2.27	2	136.8	2	-9	9	-9	9	216.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4749.6	34.703	2	34.701	2	0.374	0.007	27.866	0.003	0.0	2	31.6	2	2.26	2	137.0	2	-9	9	-9	9	216.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	5063.1	34.703	2	34.701	2	0.382	-0.022	27.867	0.009	0.0	2	31.7	2	2.23	2	142.5	2	-9	9	-9	9	216.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 16 DATE 3/1/94 LATITUDE 63°59.3'S Btm Depth: 5018
CAST 1 LONGITUDE 102°59.2'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	33.890	2	33.890	2	2.794	2.793	27.017	0.055	0.2	2	22.9	2	1.69	2	8.2	2	5.817	2	2.736	2	321.26	2	702	2	2127.6	2	-9	9	2284	2	1.70	43.4	4.9	-9	-9
135	2	25.6	33.890	2	33.890	2	2.795	2.793	27.017	0.055	0.2	2	22.8	2	1.63	2	8.0	2	5.908	6	2.713	6	320.69	2	-9	9	-9	9	-9	9	-9	9	1.70	43.4	4.3	-9	-9
134	2	49.1	33.891	2	33.891	2	2.793	2.791	27.018	0.054	0.2	2	23.3	2	1.67	2	8.4	2	5.791	2	2.722	2	320.43	2	-9	9	2126.4	2	-9	9	2279	2	1.60	45.6	4.3	-9	-9
133	2	74.7	33.953	2	33.962	2	2.066	2.062	27.128	0.054	0.1	2	23.5	2	1.77	2	12.0	2	5.927	2	2.735	2	326.24	2	-9	9	-9	9	-9	9	-9	9	1.60	42.5	4.1	-9	-9
132	2	97.8	34.005	2	34.005	2	1.206	1.202	27.232	0.041	0.3	2	25.1	2	1.86	2	17.8	2	-9	1	-9	1	326.07	2	-9	9	2147.5	2	-9	9	2309	2	1.40	41.0	4.1	-9	-9
131	2	148.2	34.010	2	34.011	2	1.100	1.094	27.244	0.024	0.0	2	26.6	2	1.85	2	18.8	2	5.914	2	2.726	2	322.80	2	-9	9	-9	9	-9	9	-9	9	1.40	41.0	-9	-9	-9
130	2	207.0	34.020	2	34.018	2	1.003	0.994	27.257	0.015	0.0	2	26.9	2	1.86	2	22.1	2	5.594	2	2.540	2	315.90	2	-9	9	2157.3	2	-9	9	2299	2	1.30	40.3	-9	-9	-9
129	2	296.6	34.251	2	34.251	2	2.359	2.343	27.344	0.022	0.0	2	32.4	2	2.21	2	43.4	2	2.410	2	1.046	2	225.75	2	-9	9	2203.5	2	-9	9	2297	2	0.80	40.3	2.7	-9	-9
128	2	398.5	34.346	2	34.345	2	2.354	2.331	27.421	0.012	0.0	2	32.7	2	2.50	2	53.9	2	1.581	2	0.685	2	202.52	2	-9	9	2226.0	2	-9	9	2293	2	0.60	39.4	-9	-9	-9
127	3	497.9	34.429	2	-9	5	2.323	2.294	27.490	0.018	-9	9	-9	9	-9	9	-9	9	0.143	4	0.056	4	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	596.4	34.501	2	34.502	2	2.299	2.263	27.551	0.010	0.0	2	32.8	2	2.36	2	68.3	2	-9	1	-9	1	178.98	2	-9	9	2250.2	2	-9	9	2342	2	0.50	40.7	3.0	-9	-9
125	2	700.8	34.563	2	34.561	2	2.226	2.184	27.607	0.012	0.0	2	32.9	2	2.34	2	73.6	2	0.498	2	0.209	2	173.91	2	-9	9	2253.3	2	-9	9	2327	2	0.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	804.9	34.600	2	34.599	2	2.200	2.151	27.639	0.012	0.0	2	32.6	2	2.30	2	77.4	2	0.382	2	0.160	2	174.73	2	-9	9	2254.3	2	-9	9	2342	2	-9	40.8	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	901.5	34.637	2	34.636	2	2.155	2.100	27.673	0.012	0.0	2	31.9	2	2.26	2	80.3	2	0.360	3	0.112	2	174.20	2	-9	9	2254.9	2	-9	9	2357	2	0.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	1003.4	34.664	2	34.663	2	2.104	2.043	27.699	0.013	0.0	2	31.8	2	2.25	2	81.5	2	-9	1	-9	1	176.61	2	1145	6	2255.6	2	-9	9	2345	2	-9	40.5	2.6	-9	-9
118	2	1201.4	34.700	2	34.700	2	2.005	1.930	27.737	0.012	0.0	2	32.0	2	2.19	2	84.5	2	0.200	3	0.056	6	180.39	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
117	2	1399.9	34.723	2	34.722	2	1.855	1.768	27.768	0.010	0.0	2	30.4	2	2.16	2	88.7	2	0.079	2	0.028	2	185.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1601.3	34.729	2	34.728	2	1.717	1.616	27.785	0.009	0.0	2	30.3	2	2.15	2	92.9	2	0.127	4	0.023	2	189.60	2	-9	9	-9	9	-9	9	-9	9	0.50	-9	-9	-9	-9
115	2	1801.3	34.730	2	34.731	2	1.544	1.430	27.799	0.006	0.0	2	30.5	2	2.15	2	98.8	2	0.048	2	0.019	2	192.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	2001.2	34.729	2	34.727	2	1.406	1.278	27.808	0.007	0.0	2	30.9	2	2.11	2	104.2	2	0.052	2	0.017	2	194.40	2	1069	6	-9	9	-9	9	-9	9	0.50	41.0	-9	-9	-9
113	2	2249.5	34.725	2	34.723	2	1.257	1.111	27.817	0.008	0.0	2	30.9	2	2.15	2	109.1	2	0.071	4	0.019	2	197.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2501.8	34.720	2	34.718	2	1.097	0.933	27.825	0.006	0.0	2	30.6	2	2.15	2	112.1	2	0.044	2	0.024	2	200.45	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
111	2	2752.2	34.716	2	34.714	2	0.994	0.811	27.829	0.004	0.0	2	30.9	2	2.19	2	115.3	2	0.047	2	0.032	2	202.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2997.8	34.711	2	34.709	2	0.874	0.671	27.835	0.006	0.0	2	31.2	2	2.19	2	120.9	2	0.405	4	0.021	2	204.44	2	-9	9	-9	9	-9	9	-9	9	0.40	39.0	2.5	-9	-9
109	2	3250.3	34.709	2	34.706	2	0.778	0.554	27.840	0.003	0.0	2	31.4	2	2.16	2	124.9	2	0.051	2	0.024	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3500.7	34.706	2	34.698	3	0.669	0.423	27.846	0.002	0.0	2	31.5	2	2.19	2	127.4	2	0.072	2	0.031	2	208.76	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
107	2	3749.7	34.705	2	34.702	2	0.559	0.292	27.852	0.004	0.0	2	31.3	2	2.20	2	127.8	2	-9	1	-9	1	210.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	4000.5	34.704	2	34.702	2	0.468	0.178	27.858	0.003	0.0	2	32.0	2	2.22	2	128.7	2	-9	1	-9	1	212.42	2	1082	6	-9	9	-9	9	-9	9	0.50	39.4	-9	-9	-9
105	2	4247.1	34.704	2	34.701	2	0.416	0.102	27.862	0.002	0.0	2	31.6	2	2.23	2	131.3	2	0.107	2	0.029	2	215.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4498.9	34.704	2	34.701	2	0.393	0.053	27.864	0.003	0.0	2	31.7	2	2.21	2	133.9	2	0.131	3	0.036	2	213.11	2	-9	9	-9	9	-9	9	-9	9	0.50	-9	-9	-9	-9
103	2	4748.5	34.703	2	34.701	2	0.384	0.016	27.866	0.003	0.0	2	31.7	2	2.21	2	137.8	2	0.112	3	0.041	6	215.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4998.5	34.703	2	34.701	2	0.381	-0.015	27.867	0.004	0.0	2	32.0	2	2.21	2	139.0	2	0.157	4	0.052	2	216.79	6	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
101	2	5092.9	34.703	2	34.701	2	0.387	-0.021	27.867	0.011	0.0	2	31.6	2	2.23	2	140.7	2	0.120	2	0.059	2	215.36	2	-9	9	-9	9	-9	9	-9	9	0.40	36.5	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 17 DATE 3/2/94 LATITUDE 63°30.0'S Btm Depth: 5028
CAST 1 LONGITUDE 102°59.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	4.5	33.838	2	-9	5	2.675	2.675	26.986	-9	0.2	2	23.8	2	1.77	2	11.1	2	-9	9	-9	9	322.46	2	-9	9	2127.1	2	-9	9	2278	2	-9	-9	-9	-9	-9
123	2	25.1	33.842	2	33.836	2	2.687	2.685	26.988	-9	0.2	2	24.4	2	1.72	2	10.9	2	-9	9	-9	9	322.68	2	-9	9	2127.2	2	-9	9	2279	2	-9	-9	-9	-9	-9
122	2	48.0	33.879	2	33.872	2	2.777	2.774	27.010	-9	0.2	2	23.1	2	1.73	2	10.5	2	-9	9	-9	9	322.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	75.9	33.885	2	-9	5	2.578	2.573	27.032	-9	0.2	2	24.1	2	1.75	2	12.1	2	-9	9	-9	9	322.32	2	-9	9	2147.2	2	-9	9	2297	2	-9	-9	-9	-9	-9
120	2	99.4	33.944	2	-9	9	0.764	0.760	27.211	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	337.10	2	-9	9	2143.0	2	-9	9	2278	2	-9	-9	-9	-9	-9
119	2	196.9	34.022	2	34.027	2	0.769	0.761	27.274	-9	0.0	2	27.7	2	1.96	2	24.9	2	-9	9	-9	9	306.41	2	-9	9	2163.1	2	-9	9	2288	2	-9	-9	-9	-9	-9
118	2	302.6	34.303	2	34.301	2	2.332	2.315	27.388	-9	0.0	2	32.8	2	2.31	2	49.6	2	-9	9	-9	9	211.77	2	-9	9	2215.4	2	-9	9	2285	2	-9	-9	-9	-9	-9
117	2	397.1	34.406	2	-9	5	2.391	2.368	27.466	-9	0.0	2	34.7	2	2.45	2	61.3	2	-9	9	-9	9	189.68	2	-9	9	2233.2	2	-9	9	2320	2	-9	-9	-9	-9	-9
116	2	501.5	34.475	2	34.474	2	2.335	2.305	27.526	-9	0.0	2	33.9	2	2.41	2	66.4	2	-9	9	-9	9	180.24	2	-9	9	2242.6	2	-9	9	2318	2	-9	-9	-9	-9	-9
115	2	597.7	34.535	2	34.534	2	2.269	2.234	27.580	-9	0.0	2	33.8	2	2.42	2	72.5	2	-9	9	-9	9	175.51	2	-9	9	2252.7	2	-9	9	2359	2	-9	-9	-9	-9	-9
114	2	803.2	34.622	2	34.621	2	2.168	2.120	27.660	-9	0.0	2	33.1	2	2.31	2	80.0	2	-9	9	-9	9	173.79	2	-9	9	2253.2	2	-9	9	2335	2	-9	-9	-9	-9	-9
113	2	998.1	34.675	2	-9	9	2.090	2.029	27.709	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	177.39	2	-9	9	2253.5	2	-9	9	2343	2	-9	-9	-9	-9	-9
112	2	1205.8	34.706	2	34.704	2	1.983	1.909	27.743	-9	0.0	2	31.4	2	2.21	2	86.6	2	-9	9	-9	9	181.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1399.6	34.723	2	-9	5	1.852	1.765	27.768	-9	0.0	2	31.6	2	2.26	2	92.5	2	-9	9	-9	9	186.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1798.9	34.730	2	34.728	2	1.532	1.419	27.799	-9	0.0	2	31.2	2	2.25	2	98.9	2	-9	9	-9	9	193.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2196.9	34.725	2	34.724	2	1.271	1.129	27.815	-9	0.0	2	31.0	2	2.24	2	106.8	2	-9	9	-9	9	197.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2602.3	34.717	2	34.717	2	1.043	0.872	27.826	-9	0.0	2	31.2	2	2.18	2	115.4	2	-9	9	-9	9	202.12	2	1079	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3000.5	34.711	2	34.714	2	0.866	0.663	27.835	-9	0.0	2	31.3	2	2.23	2	122.1	2	-9	9	-9	9	204.65	2	1077	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3404.0	34.706	2	34.705	2	0.700	0.464	27.843	-9	0.0	2	31.4	2	2.26	2	125.2	2	-9	9	-9	9	207.82	2	1088	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3798.8	34.704	2	34.703	2	0.523	0.252	27.854	-9	0.0	2	31.3	2	2.26	2	128.1	2	-9	9	-9	9	211.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4203.6	34.703	2	34.702	2	0.411	0.102	27.861	-9	0.0	2	31.8	2	2.30	2	132.8	2	-9	9	-9	9	215.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4600.5	34.703	2	34.701	2	0.379	0.028	27.865	-9	0.0	2	32.0	2	2.25	2	137.0	2	-9	9	-9	9	215.91	2	1079	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4998.5	34.702	2	34.701	2	0.383	-0.013	27.867	-9	0.0	2	32.1	2	2.27	2	140.2	2	-9	9	-9	9	216.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	5108.1	34.702	2	-9	9	0.389	-0.020	27.867	-9	0.0	2	32.7	2	2.33	2	146.4	2	-9	9	-9	9	216.54	2	1137	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 18 DATE 3/2/94 LATITUDE 63°0.0'S Btm Depth: 5038
CAST 1 LONGITUDE 102°58.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	7.5	33.937	2	33.937	2	3.373	3.373	27.002	-9	0.2	2	20.8	2	1.67	2	2.8	2	5.576	2	2.635	2	315.24	2	674	2	2121.9	2	-9	9	2281	2	-9	-9	-9	-9	-9
123	2	25.4	33.936	2	33.936	2	3.364	3.363	27.002	-9	0.2	2	21.0	2	1.66	2	2.7	2	5.522	2	2.574	2	315.34	2	674	2	2122.4	2	-9	9	2276	2	-9	-9	-9	-9	-9
122	2	52.1	33.939	2	33.940	2	3.385	3.381	27.003	-9	0.2	2	21.0	2	1.65	2	2.8	2	-9	1	-9	1	315.30	2	677	2	2122.3	2	-9	9	2280	2	-9	-9	-9	-9	-9
121	2	95.9	34.025	2	-9	9	1.835	1.830	27.204	-9	-9	9	-9	9	-9	9	-9	9	5.587	2	2.565	2	313.71	2	802	2	2149.5	2	-9	9	2287	2	-9	-9	-9	-9	-9
120	2	150.5	34.026	2	34.027	2	1.487	1.480	27.230	-9	0.2	2	26.1	2	1.89	2	19.1	2	5.582	2	2.690	2	314.11	2	812	2	2151.2	2	-9	9	2281	2	-9	-9	-9	-9	-9
119	2	197.9	34.018	2	-9	9	1.216	1.207	27.242	-9	0.0	2	27.6	2	1.98	2	20.9	2	5.668	2	2.590	2	316.29	2	822	2	-9	1	-9	9	2282	2	-9	-9	-9	-9	-9
118	2	303.3	34.178	2	-9	9	2.044	2.027	27.311	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	400.1	34.324	2	-9	9	2.492	2.468	27.392	-9	0.0	2	33.2	2	2.41	2	51.4	2	1.660	3	0.609	3	205.95	2	1129	2	2217.6	2	-9	9	2309	2	-9	-9	-9	-9	-9
116	2	498.2	34.412	2	-9	9	2.442	2.412	27.467	-9	0.0	2	34.0	2	2.54	2	61.9	2	1.020	2	0.452	2	188.07	2	1175	2	2233.5	2	-9	9	2318	2	-9	-9	-9	-9	-9
115	2	601.8	34.493	2	-9	9	2.413	2.377	27.535	-9	0.0	2	34.3	2	2.44	2	70.3	2	0.597	2	0.280	2	178.12	2	1199	2	2243.8	2	-9	9	2322	2	-9	-9	-9	-9	-9
114	2	702.7	34.544	2	34.544	2	2.335	2.293	27.583	-9	0.0	2	33.0	2	2.39	2	73.9	2	0.423	2	0.192	2	173.72	2	1198	2	2250.5	2	-9	9	2331	2	-9	-9	-9	-9	-9
113	2	800.5	34.588	2	-9	9	2.279	2.230	27.623	-9	-9	9	-9	9	-9	9	-9	9	0.304	2	3.273	4	172.27	2	1190	2	2252.4	2	-9	9	2338	2	-9	-9	-9	-9	-9
112	2	1010.4	34.650	2	-9	9	2.176	2.114	27.682	-9	0.0	2	32.8	2	2.38	2	83.1	2	0.192	2	0.079	2	174.27	2	1159	2	2253.4	2	-9	9	2349	2	-9	-9	-9	-9	-9
111	2	1196.1	34.688	2	34.687	2	2.071	1.997	27.722	-9	0.0	2	31.1	2	2.29	2	82.8	2	0.158	3	0.058	2	178.82	2	1134	2	2254.1	2	-9	9	2343	2	-9	-9	-9	-9	-9
110	2	1395.4	34.715	2	34.713	2	1.943	1.855	27.754	-9	0.0	2	30.4	2	2.22	2	85.9	2	0.095	2	0.038	2	183.57	2	1102	2	2252.0	2	-9	9	2348	2	-9	-9	-9	-9	-9
109	3	1790.8	34.730	2	34.728	2	1.622	1.507	27.793	-9	0.0	2	30.2	2	2.20	2	97.5	2	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2197.3	34.726	2	-9	9	1.323	1.181	27.813	-9	-9	9	-9	9	-9	9	-9	9	0.059	2	0.014	2	196.19	2	1073	2	2257.6	2	-9	9	2355	2	-9	-9	-9	-9	-9
107	2	2595.9	34.720	2	-9	9	1.107	0.934	27.825	-9	0.0	2	31.6	2	2.31	2	115.6	2	0.038	2	0.014	2	200.29	2	1070	2	2258.1	2	-9	9	2358	2	-9	-9	-9	-9	-9
106	2	2987.0	34.712	2	34.711	2	0.898	0.696	27.834	-9	0.0	2	30.9	2	2.21	2	120.3	2	0.054	2	0.024	2	203.92	2	1080	2	2256.7	2	-9	9	2358	2	-9	-9	-9	-9	-9
105	2	3405.1	34.706	2	34.706	2	0.732	0.494	27.841	-9	0.0	2	31.3	2	2.27	2	127.0	2	0.053	2	0.020	2	207.34	2	1078	2	2260.9	2	-9	9	2361	2	-9	-9	-9	-9	-9
104	2	3800.1	34.704	2	-9	9	0.544	0.273	27.853	-9	0.0	2	31.9	2	2.35	2	131.8	2	0.070	2	0.034	2	211.40	2	1086	2	2261.2	2	-9	9	2361	2	-9	-9	-9	-9	-9
103	2	4202.6	34.703	2	34.703	2	0.428	0.119	27.860	-9	0.0	2	31.1	2	2.31	2	129.0	2	13.455	4	0.034	2	212.87	2	1084	2	2260.7	2	-9	9	2359	2	-9	-9	-9	-9	-9
102	2	4601.0	34.703	2	-9	9	0.379	0.028	27.865	-9	0.0	2	32.1	2	2.41	2	138.5	2	0.095	2	0.046	2	217.14	2	1080	2	2260.5	2	-9	9	2366	2	-9	-9	-9	-9	-9
101	2	4910.3	34.702	2	34.702	2	0.377	-0.009	27.866	-9	0.0	2	31.6	2	2.27	2	138.1	2	0.108	2	0.054	2	-9	1	1077	2	2261.1	2	-9	9	2363	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 19 DATE 3/2/94 LATITUDE 62°30.0'S Btm Depth: 5069
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	12.5	33.941	2	-9	9	3.447	3.446	26.999	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	315.49	2	672	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	20.2	33.941	2	33.942	2	3.448	3.447	26.998	-9	0.2	2	21.3	2	1.64	2	2.8	2	-9	9	-9	9	314.72	2	670	2	2121.8	2	-9	9	2285	2	-9	47.6	-9	-9	-9
122	2	47.1	33.941	2	33.944	2	3.441	3.438	26.999	-9	0.3	2	21.5	2	1.64	2	2.9	2	-9	9	-9	9	315.69	2	686	2	2121.1	2	-9	9	2285	2	-9	58.4	-9	-9	-9
121	2	98.6	34.015	2	34.040	2	1.885	1.880	27.192	-9	0.4	2	25.3	2	1.85	2	15.3	2	-9	9	-9	9	315.26	2	788	2	2146.7	2	-9	9	2290	2	-9	53.8	-9	-9	-9
120	2	152.9	34.023	2	34.025	2	1.648	1.640	27.216	-9	0.1	2	26.1	2	1.87	2	17.8	2	-9	9	-9	9	317.81	2	800	2	2148.7	2	-9	9	2281	2	-9	45.9	-9	-9	-9
119	2	197.5	34.027	2	34.030	2	1.558	1.549	27.226	-9	0.0	2	26.5	2	1.88	2	18.2	2	-9	9	-9	9	316.45	2	808	2	2149.1	2	-9	9	2289	2	-9	-9	-9	-9	-9
118	2	298.0	34.061	2	34.061	2	1.554	1.539	27.254	-9	0.0	2	27.3	2	1.94	2	22.5	2	-9	9	-9	9	-9	1	855	2	2159.7	2	-9	9	2286	2	-9	45.2	-9	-9	-9
117	2	396.8	34.215	2	34.227	2	2.337	2.314	27.318	-9	0.0	2	31.1	2	2.16	2	39.4	2	-9	9	-9	9	234.30	2	1024	2	2197.7	2	-9	9	2303	2	-9	47.2	-9	-9	-9
116	2	495.7	34.352	2	34.351	2	2.583	2.554	27.407	-9	0.0	2	32.9	2	2.32	2	52.6	2	-9	9	-9	9	199.53	2	1139	2	2223.0	2	-9	9	2311	2	-9	-9	-9	-9	-9
115	2	599.9	34.423	2	34.618	4	2.494	2.458	27.472	-9	0.0	2	33.2	2	2.38	2	59.8	2	-9	9	-9	9	186.02	2	1175	2	2234.8	3	-9	9	2318	2	-9	41.3	-9	-9	-9
114	2	800.6	34.553	2	34.553	2	2.321	2.272	27.591	-9	0.0	2	33.0	2	2.34	2	71.8	2	-9	9	-9	9	174.04	2	1199	2	2247.9	2	-9	9	2341	2	-9	40.4	-9	-9	-9
113	2	998.3	34.628	2	34.624	2	2.203	2.141	27.662	-9	0.0	2	33.4	2	2.29	2	78.7	2	-9	9	-9	9	173.71	2	1176	2	2252.3	2	-9	9	2339	2	-9	-9	-9	-9	-9
112	2	1201.8	34.689	2	-9	9	2.073	1.998	27.723	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	178.49	2	1128	2	2251.5	2	-9	9	2342	2	-9	-9	-9	-9	-9
111	2	1400.2	34.718	2	34.718	2	1.903	1.815	27.760	-9	0.0	2	30.7	2	2.18	2	88.5	2	-9	9	-9	9	184.74	2	1095	2	2251.5	2	-9	9	2350	2	-9	-9	-9	-9	-9
110	2	1803.0	34.722	2	34.724	2	1.480	1.367	27.797	-9	0.0	2	30.5	2	2.22	2	102.7	2	-9	9	-9	9	189.98	2	1075	2	2260.0	2	-9	9	2361	2	-9	36.4	-9	-9	-9
109	2	2199.3	34.722	2	34.722	2	1.419	1.275	27.803	-9	0.0	2	30.7	2	2.21	2	105.1	2	-9	9	-9	9	192.00	2	1070	2	2260.9	2	-9	9	2366	2	-9	-9	-9	-9	-9
108	2	2603.6	34.722	2	34.719	2	1.328	1.151	27.811	-9	0.0	2	30.7	2	2.03	4	108.6	2	-9	9	-9	9	195.55	2	1070	2	2259.7	2	-9	9	2363	2	-9	-9	-9	-9	-9
107	2	2999.7	34.717	2	34.719	2	1.047	0.840	27.828	-9	0.0	2	30.5	2	2.20	2	112.4	2	-9	9	-9	9	199.52	2	1072	2	2259.6	2	-9	9	2360	2	-9	41.2	-9	-9	-9
106	2	3397.9	34.709	2	34.709	2	0.829	0.589	27.838	-9	0.0	2	30.8	2	2.23	2	120.9	2	-9	9	-9	9	205.83	2	1084	2	2257.7	2	-9	9	2358	2	-9	-9	-9	-9	-9
105	2	3795.6	34.705	2	34.705	2	0.596	0.323	27.851	-9	0.0	2	31.3	2	2.25	2	125.5	2	-9	9	-9	9	209.95	2	1088	2	2258.8	2	-9	9	2358	2	-9	45.1	-9	-9	-9
104	2	4196.0	34.704	2	-9	9	0.455	0.145	27.859	-9	0.0	2	31.9	2	2.32	2	133.9	2	-9	9	-9	9	214.37	2	1089	2	2260.1	2	-9	9	2362	2	-9	-9	-9	-9	-9
103	2	4599.5	34.703	2	34.702	2	0.390	0.039	27.864	-9	0.0	2	31.3	2	2.26	2	133.0	2	-9	9	-9	9	215.27	2	1087	2	2258.8	2	-9	9	2362	2	-9	-9	-9	-9	-9
102	2	4993.5	34.703	2	34.702	2	0.386	-0.010	27.867	-9	0.0	2	31.3	2	2.27	2	134.2	2	-9	9	-9	9	216.51	2	1087	2	2258.1	2	-9	9	2363	2	-9	40.3	-9	-9	-9
101	2	5158.0	34.702	2	34.702	2	0.394	-0.021	27.867	-9	0.0	2	31.0	2	2.41	4	135.5	2	-9	9	-9	9	216.55	2	1087	2	2268.4	2	-9	9	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 20 DATE 3/2/94 LATITUDE 61°59.9'S Btm Depth: 5058
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.7	33.976	2	33.976	2	3.477	3.476	27.023	0.093	0.3	2	21.3	2	1.64	2	2.1	2	5.992	2	2.659	2	314.33	2	-9	9	2121.1	2	7.7816	2	2285	2	1.80	-9	-9	-9	-9
135	2	9.2	33.975	2	33.976	2	3.494	3.493	27.021	0.093	0.3	2	21.3	2	1.65	2	1.7	2	7.418	4	2.592	2	315.10	2	663	2	2122.1	2	7.7805	2	2282	2	-9	-9	-9	-9	-9
134	2	9.1	33.975	2	-9	9	3.495	3.495	27.021	0.093	0.3	2	21.9	2	1.68	2	1.7	2	5.784	2	2.560	2	314.48	2	678	2	2120.3	2	-9	9	2281	2	-9	-9	-9	-9	-9
133	2	25.5	33.979	2	33.980	2	3.484	3.483	27.025	0.104	0.3	2	21.7	2	1.62	2	1.8	2	5.807	2	2.588	2	314.93	2	-9	9	2121.1	2	7.7806	2	2281	2	-9	-9	-9	-9	-9
132	2	48.6	33.980	2	33.981	2	3.472	3.469	27.028	0.106	0.3	2	21.5	2	1.64	2	1.7	2	5.795	2	2.583	2	314.45	2	-9	9	2120.4	2	7.7805	2	2282	2	-9	-9	-9	-9	-9
131	2	75.7	33.980	2	33.984	2	3.280	3.275	27.045	0.097	0.3	2	21.6	2	1.67	2	2.8	2	5.818	2	2.593	2	315.43	2	-9	9	2122.1	2	7.7750	2	2282	2	-9	-9	-9	-9	-9
130	2	102.0	34.025	2	34.027	2	1.927	1.922	27.197	0.083	0.5	2	25.5	2	1.83	2	12.8	2	6.070	2	2.664	2	319.48	2	776	2	2144.4	2	7.7195	2	2282	2	-9	-9	-9	-9	-9
129	2	151.8	34.026	2	34.028	2	1.788	1.780	27.208	0.064	0.2	2	26.3	2	1.84	2	15.4	2	6.018	2	2.655	2	317.64	2	-9	9	2146.4	2	7.7144	2	2276	2	-9	-9	-9	-9	-9
128	2	201.5	34.026	2	-9	9	1.659	1.649	27.217	0.037	-9	9	-9	9	-9	9	-9	9	6.356	3	2.609	2	317.49	2	800	2	2148.2	2	-9	9	2281	2	-9	-9	-9	-9	-9
127	2	299.3	34.036	2	-9	5	1.466	1.452	27.240	0.020	0.0	2	28.2	2	1.95	2	18.9	2	5.621	2	2.476	2	311.64	2	-9	9	2153.8	2	-9	9	2283	2	-9	-9	-9	-9	-9
126	2	300.0	34.037	2	34.039	2	1.470	1.455	27.241	0.024	0.0	2	27.5	2	1.88	2	18.6	2	-9	1	-9	1	311.19	2	-9	9	2153.8	2	7.7002	2	2286	2	-9	-9	-9	-9	-9
125	3	400.4	34.198	2	-9	5	2.368	2.345	27.301	0.018	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	599.6	34.401	2	34.402	2	2.565	2.528	27.449	0.015	0.0	2	34.3	2	2.35	2	55.7	2	1.029	3	0.426	2	190.69	2	1155	6	2231.7	2	7.5712	2	2316	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	800.4	34.523	2	34.523	2	2.365	2.315	27.564	0.014	0.0	2	34.3	2	2.39	2	68.9	2	1.303	4	0.215	4	175.39	2	-9	9	2249.0	2	7.5597	2	2327	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	972.0	34.609	2	34.610	2	2.247	2.187	27.644	0.014	0.0	2	33.8	2	2.35	2	78.5	2	0.272	2	0.117	2	172.74	2	-9	9	2253.7	2	7.5670	2	2336	2	-9	-9	-9	-9	-9
118	2	1199.0	34.665	2	34.665	2	2.143	2.067	27.698	0.012	0.0	2	32.5	2	2.24	2	82.3	2	0.177	2	0.074	2	175.89	2	-9	9	-9	9	7.5774	2	-9	9	-9	-9	-9	-9	-9
117	2	1403.5	34.706	2	34.705	2	2.005	1.916	27.743	-9	0.0	2	31.5	2	2.21	2	86.9	2	3.689	4	0.041	2	181.36	2	-9	9	-9	9	7.5914	2	-9	9	-9	-9	-9	-9	-9
116	2	1600.6	34.725	2	34.724	2	1.833	1.730	27.772	0.010	0.0	2	30.5	2	2.20	2	89.5	2	0.102	3	0.030	2	186.97	2	-9	9	-9	9	7.6001	2	-9	9	-9	-9	-9	-9	-9
115	2	1801.1	34.730	2	34.729	2	1.644	1.528	27.792	0.010	0.0	2	31.3	2	2.19	2	94.6	2	0.058	2	0.022	2	191.31	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	2001.2	34.728	2	34.728	2	1.438	1.309	27.805	0.009	0.0	2	31.5	2	2.20	2	101.9	2	0.048	2	0.019	2	194.87	2	1070	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	2251.7	34.725	2	34.724	2	1.269	1.123	27.816	0.009	0.0	2	31.5	2	2.19	2	108.0	2	-9	1	-9	1	197.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	3	2500.5	34.721	2	-9	9	1.142	0.977	27.822	0.006	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2749.4	34.718	2	34.716	2	1.057	0.873	27.827	0.007	0.0	2	32.1	2	2.22	2	116.4	2	0.027	2	0.009	2	200.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	3000.5	34.715	2	34.714	2	1.019	0.813	27.829	0.006	0.0	2	32.1	2	2.22	2	117.4	2	0.020	2	0.009	2	201.72	2	1075	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	3250.3	34.712	2	34.712	2	0.957	0.728	27.832	0.006	0.0	2	32.1	2	2.24	2	117.7	2	0.052	2	0.011	2	203.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3494.6	34.709	2	34.708	2	0.858	0.609	27.837	0.004	0.0	2	32.4	2	2.26	2	121.5	2	0.108	4	0.014	2	205.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3747.2	34.706	2	34.704	2	0.719	0.448	27.844	0.003	0.0	2	32.6	2	2.25	2	125.1	2	0.304	4	0.028	2	208.13	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	4001.6	34.704	2	34.702	2	0.585	0.292	27.851	0.005	0.0	2	32.2	2	2.23	2	128.0	2	0.095	2	0.039	2	211.04	2	1083	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	4247.0	34.703	2	34.702	2	0.482	0.166	27.858	0.003	0.0	2	32.2	2	2.24	2	130.9	2	0.080	2	0.033	2	213.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4504.1	34.703	2	34.701	2	0.424	0.082	27.862	0.001	0.0	2	32.4	2	2.25	2	131.4	2	0.087	2	0.033	2	215.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4750.8	34.703	2	34.701	2	0.399	0.031	27.865	0.006	0.0	2	32.5	2	2.27	2	131.5	2	0.100	2	0.044	2	216.01	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4999.8	34.702	2	34.701	2	0.395	-0.001	27.865	0.004	0.0	2	32.6	2	2.28	2	133.5	2	0.122	2	0.052	2	216.53	6	1081	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	5130.8	34.702	2	34.701	2	0.394	-0.019	27.867	0.023	0.0	2	32.7	2	2.29	2	137.5	2	0.133	6	0.059	6	216.96	2	1080	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 21 DATE 3/3/94 LATITUDE 61°27.0'S Btm Depth: 5143
CAST 1 LONGITUDE 102°59.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.3	33.925	2	33.926	2	4.612	4.611	26.866	0.140	0.3	2	19.7	2	1.48	2	3.0	2	-9	9	-9	9	306.61	2	640	2	2112.4	2	7.7933	2	2273	2	-9	-9	-9	-9	-9
135	2	25.4	33.927	2	33.929	2	4.561	4.560	26.874	0.147	0.3	2	20.4	2	1.49	2	2.9	2	-9	9	-9	9	307.39	2	632	2	2110.8	2	7.7944	2	2279	2	-9	-9	-9	-9	-9
134	2	48.3	33.929	2	33.929	2	4.557	4.553	26.876	0.143	0.3	2	20.5	2	1.51	2	2.8	2	-9	9	-9	9	307.51	2	634	2	2111.4	2	7.7974	2	2275	2	-9	-9	-9	-9	-9
133	2	74.1	33.930	2	33.931	2	4.522	4.517	26.881	0.109	0.3	2	20.3	2	1.52	2	2.8	2	-9	9	-9	9	307.75	2	637	2	2111.4	2	7.7974	2	2277	2	-9	-9	-9	-9	-9
132	2	100.8	33.972	2	33.975	2	2.521	2.516	27.107	0.126	0.3	2	24.2	2	1.82	2	11.8	2	-9	9	-9	9	312.04	2	759	2	2140.5	2	7.7272	2	2274	2	-9	-9	-9	-9	-9
131	2	150.2	34.017	2	34.018	2	2.251	2.243	27.165	0.057	0.2	2	26.5	2	1.83	2	17.3	2	-9	9	-9	9	304.80	2	806	2	2148.2	2	7.7068	2	2284	2	-9	-9	-9	-9	-9
130	2	200.1	34.045	2	34.043	2	2.128	2.118	27.197	0.039	0.0	2	27.2	2	1.85	2	19.9	2	-9	9	-9	9	302.95	2	816	2	2153.4	2	7.6997	2	2278	2	-9	-9	-9	-9	-9
129	2	303.4	34.081	2	34.081	2	2.025	2.009	27.235	0.023	0.0	2	28.1	2	1.94	2	24.1	2	-9	9	-9	9	291.23	2	847	2	2161.3	2	7.6855	2	2283	2	-9	-9	-9	-9	-9
128	2	398.7	34.248	2	34.248	2	2.919	2.895	27.294	0.016	0.0	2	31.7	2	2.17	2	38.7	2	-9	9	-9	9	225.70	2	1023	2	2198.1	2	7.6207	2	2300	2	-9	-9	-9	-9	-9
127	2	499.7	34.313	2	34.312	2	2.707	2.676	27.366	0.009	0.0	2	33.2	2	2.28	2	48.3	2	-9	9	-9	9	206.92	2	1101	2	2215.8	2	7.5902	2	2307	2	-9	-9	-9	-9	-9
126	2	600.3	34.393	2	34.392	2	2.661	2.624	27.434	0.010	0.0	2	33.4	2	2.35	2	57.6	2	-9	9	-9	9	190.09	2	1146	2	2230.2	2	7.5765	2	2317	2	-9	-9	-9	-9	-9
125	2	701.3	34.458	2	34.459	2	2.576	2.532	27.494	0.012	0.0	2	34.3	2	2.32	2	65.0	2	-9	9	-9	9	180.28	2	1174	2	2240.8	2	7.5679	2	2319	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	810.2	34.511	2	34.510	2	2.451	2.401	27.547	0.010	0.0	2	34.3	2	2.35	2	70.8	2	-9	9	-9	9	175.44	2	1186	2	2247.8	2	7.5616	2	2327	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	902.5	34.552	2	34.551	2	2.375	2.319	27.587	0.014	0.0	2	34.1	2	2.34	2	73.5	2	-9	9	-9	9	172.80	2	1183	2	2249.7	2	7.5614	2	2334	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	1002.9	34.596	2	34.595	2	2.342	2.279	27.625	0.011	0.0	2	33.8	2	2.38	2	77.3	2	-9	9	-9	9	171.54	6	1169	2	2255.0	2	7.5671	2	2338	2	-9	-9	-9	-9	-9
118	2	1201.5	34.650	2	34.649	2	2.230	2.153	27.679	0.012	0.0	2	33.4	2	2.30	2	82.3	2	-9	9	-9	9	173.13	2	-9	9	-9	9	7.5756	2	-9	9	-9	-9	-9	-9	-9
117	2	1401.5	34.690	2	34.690	2	2.098	2.007	27.723	0.010	0.0	2	33.5	2	2.25	2	84.8	2	-9	9	-9	9	177.78	2	-9	9	-9	9	7.5873	2	-9	9	-9	-9	-9	-9	-9
116	2	1598.6	34.712	2	34.711	2	1.971	1.867	27.751	0.009	0.0	2	32.2	2	2.23	2	88.1	2	-9	9	-9	9	181.99	2	-9	9	-9	9	7.5950	2	-9	9	-9	-9	-9	-9	-9
115	2	1800.2	34.724	2	34.723	2	1.817	1.699	27.774	0.009	0.0	2	31.5	2	2.22	2	92.5	2	-9	9	-9	9	186.43	2	-9	9	-9	9	7.6009	2	-9	9	-9	-9	-9	-9	-9
114	2	1998.8	34.727	2	34.726	2	1.645	1.514	27.790	0.009	0.0	2	31.6	2	2.18	2	99.0	2	-9	9	-9	9	189.34	2	-9	9	-9	9	7.6052	2	-9	9	-9	-9	-9	-9	-9
113	2	2250.5	34.724	2	34.723	2	1.478	1.328	27.801	0.009	0.0	2	33.0	2	2.20	2	105.6	2	-9	9	-9	9	191.88	2	-9	9	-9	9	7.6080	2	-9	9	-9	-9	-9	-9	-9
112	2	2499.9	34.724	2	34.723	2	1.345	1.177	27.812	0.007	0.0	2	31.6	2	2.21	2	107.0	2	-9	9	-9	9	195.34	2	-9	9	-9	9	7.6080	2	-9	9	-9	-9	-9	-9	-9
111	2	2750.9	34.720	2	34.719	2	1.193	1.005	27.820	0.007	0.0	2	31.9	2	2.22	2	110.7	2	-9	9	-9	9	198.96	2	-9	9	-9	9	7.6080	2	-9	9	-9	-9	-9	-9	-9
110	2	3000.2	34.716	2	34.715	2	1.057	0.850	27.827	0.006	0.0	2	32.0	2	2.24	2	114.8	2	-9	9	-9	9	201.18	2	-9	9	-9	9	7.6079	2	-9	9	-9	-9	-9	-9	-9
109	2	3251.3	34.712	2	34.711	2	0.927	0.699	27.834	0.004	0.0	2	32.2	2	2.25	2	120.1	2	-9	9	-9	9	203.53	2	-9	9	-9	9	7.6052	2	-9	9	-9	-9	-9	-9	-9
108	2	3498.3	34.709	2	34.707	2	0.799	0.550	27.840	0.004	0.0	2	32.6	2	2.22	2	125.1	2	-9	9	-9	9	206.06	2	-9	9	-9	9	7.6052	2	-9	9	-9	-9	-9	-9	-9
107	2	3747.1	34.706	2	34.704	2	0.680	0.410	27.846	0.002	0.0	2	32.5	2	2.24	2	127.3	2	-9	9	-9	9	208.65	2	-9	9	-9	9	7.6039	2	-9	9	-9	-9	-9	-9	-9
106	2	3994.9	34.705	2	34.702	2	0.582	0.289	27.852	0.003	0.0	2	32.7	2	2.25	2	127.9	2	-9	9	-9	9	210.65	6	-9	9	-9	9	7.6036	2	-9	9	-9	-9	-9	-9	-9
105	2	4245.6	34.704	2	34.702	2	0.483	0.167	27.858	0.002	0.0	2	32.0	2	2.26	2	130.5	2	-9	9	-9	9	213.32	2	-9	9	-9	9	7.6027	2	-9	9	-9	-9	-9	-9	-9
104	2	4496.6	34.703	2	34.702	2	0.445	0.103	27.861	0.002	0.0	2	33.0	2	2.29	2	133.8	2	-9	9	-9	9	214.10	2	-9	9	-9	9	7.6004	2	-9	9	-9	-9	-9	-9	-9
103	4	4747.7	34.703	2	-9	9	0.411	0.043	27.864	0.003	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	4	4997.1	34.702	2	-9	9	0.427	0.030	27.864	0.005	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	5233.1	34.702	2	34.701	2	0.449	0.023	27.865	0.005	0.0	2	32.4	2	2.25	2	138.6	2	-9	9	-9	9	218.01	2	-9	9	-9	9	7.6016	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 22 DATE 3/3/94 LATITUDE 61°1.0'S Btm Depth: 4970
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	33.921	2	33.923	2	4.444	4.443	26.882	0.124	0.3	2	20.9	2	1.60	2	0.6	2	5.517	2	2.464	2	308.87	2	650	2	2113.6	2	7.7887	2	2291	3	-9	53.8	-9	-9	-9
135	2	26.1	33.923	2	33.924	2	4.438	4.436	26.884	0.125	0.3	2	21.3	2	1.58	2	0.4	2	5.436	2	2.519	2	309.61	2	648	2	2114.6	2	7.7901	2	2285	2	1.80	49.8	-9	-9	-9
134	2	47.1	33.924	2	33.925	2	4.428	4.425	26.886	0.126	0.3	2	21.0	2	1.59	2	0.1	2	5.482	2	2.498	2	309.31	2	646	2	2113.7	2	7.7901	2	2281	2	1.80	44.7	-9	-9	-9
133	2	73.8	33.934	2	33.935	2	4.232	4.227	26.915	0.118	0.3	2	21.5	2	1.60	2	0.2	2	5.650	2	2.489	2	309.64	2	659	2	2114.9	2	7.7869	2	2278	2	1.80	-9	-9	-9	-9
132	2	100.7	34.020	2	34.021	2	3.254	3.247	27.080	0.075	0.3	2	24.7	2	1.81	2	7.5	2	5.479	6	2.479	6	304.04	2	748	2	2135.3	2	7.7338	2	2282	2	1.50	45.0	3.5	-9	-9
131	2	148.4	34.012	2	34.013	2	2.956	2.947	27.101	0.044	0.1	2	25.7	2	1.80	2	9.4	2	5.483	2	2.331	2	304.42	2	761	2	2136.3	2	7.7288	2	2277	2	1.50	40.6	-9	-9	-9
130	2	198.9	34.006	2	34.008	2	2.614	2.603	27.126	0.032	0.0	2	26.6	2	1.85	2	12.4	2	5.463	2	2.426	2	304.16	2	777	2	2141.2	2	7.7184	2	2278	2	1.40	39.8	-9	-9	-9
129	2	302.6	34.091	2	34.092	2	2.835	2.817	27.176	0.017	0.0	2	28.4	2	1.98	2	18.7	2	4.245	2	1.919	2	276.87	2	862	2	2133.3	3	7.6858	2	2282	2	1.20	42.4	3.2	-9	-9
128	2	401.8	34.198	2	34.199	2	3.031	3.006	27.245	0.013	0.0	2	30.9	2	2.14	2	29.4	2	2.840	2	1.270	2	240.13	2	956	2	2183.8	2	7.6417	2	2285	2	0.90	40.3	-9	-9	-9
127	2	498.2	34.263	2	34.265	2	2.985	2.953	27.301	0.017	0.0	2	32.6	2	2.25	2	37.4	2	2.092	2	0.928	2	218.21	2	1038	2	2200.1	2	7.6130	2	2301	2	0.80	-9	-9	-9	-9
126	2	598.4	34.326	2	34.326	2	2.812	2.775	27.368	0.009	0.0	2	33.8	2	2.34	2	45.8	2	1.451	3	0.554	3	204.08	2	1098	2	2215.5	2	7.5931	2	2308	2	0.70	42.2	2.8	-9	-9
125	2	700.7	34.383	2	34.383	2	2.683	2.639	27.425	0.011	0.0	2	34.3	2	2.38	2	53.8	2	1.175	3	0.362	3	191.97	2	1146	2	2227.9	2	7.5749	2	2316	2	0.60	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	802.1	34.446	2	34.446	2	2.551	2.501	27.486	0.014	0.0	2	34.8	2	2.43	2	61.8	2	0.736	2	0.325	2	182.34	2	1177	2	2238.3	2	7.5655	2	2327	2	0.50	39.4	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	899.7	34.506	2	34.506	2	2.510	2.453	27.539	0.012	0.0	2	34.7	2	2.41	2	67.7	2	0.457	2	0.199	2	175.68	6	1186	2	2245.4	2	7.5640	2	2335	2	0.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	1001.1	34.544	2	34.543	2	2.375	2.312	27.581	0.015	0.0	2	34.7	2	2.42	2	72.0	2	0.488	4	0.074	2	173.58	2	1196	6	2249.7	2	7.5613	2	2329	2	0.40	40.5	2.3	-9	-9
118	2	1200.9	34.619	2	34.619	2	2.296	2.219	27.649	0.013	0.0	2	33.6	2	2.34	2	79.3	2	0.219	3	0.084	3	172.61	2	1170	2	2254.8	2	7.5682	2	2343	2	0.40	-9	-9	-9	-9
117	2	1397.4	34.667	2	34.666	2	2.185	2.094	27.697	0.012	0.0	2	32.9	2	2.28	2	82.7	2	0.151	3	0.055	2	175.29	2	1160	2	2255.0	2	7.5799	2	2340	2	0.40	-9	-9	-9	-9
116	2	1599.9	34.699	2	34.698	2	2.073	1.968	27.733	0.010	0.0	2	32.4	2	2.24	2	85.9	2	0.094	3	0.033	2	180.29	2	1137	2	2252.7	2	7.5900	2	2342	2	0.40	-9	-9	-9	-9
115	2	1803.8	34.719	2	34.718	2	1.933	1.813	27.761	0.009	0.0	2	32.0	2	2.21	2	89.5	2	0.103	3	0.034	2	184.17	2	1096	2	2252.8	2	7.5972	2	2347	2	0.40	-9	-9	-9	-9
114	2	2005.3	34.727	2	34.727	2	1.785	1.651	27.780	0.007	0.0	2	31.7	2	2.18	2	93.9	2	0.065	2	0.019	2	187.98	2	1080	2	2255.2	2	7.6042	2	2350	2	0.40	39.3	-9	-9	-9
113	2	2246.9	34.730	2	34.729	2	1.609	1.458	27.797	0.008	0.0	2	31.7	2	2.19	2	98.9	2	0.067	2	0.017	2	191.70	2	1073	2	2255.7	2	7.6067	2	2355	2	0.40	-9	-9	-9	-9
112	2	2499.1	34.726	2	34.726	2	1.422	1.252	27.808	0.008	0.0	2	31.8	2	2.18	2	104.8	2	0.036	2	0.012	2	194.34	2	1070	2	2257.5	2	7.6089	2	2356	2	0.40	-9	-9	-9	-9
111	2	2739.5	34.723	2	34.722	2	1.294	1.105	27.816	0.010	0.0	2	32.2	2	2.20	2	109.7	2	0.039	6	0.016	6	196.95	2	1063	2	2259.0	2	7.6091	2	2363	2	0.40	-9	1.7	-9	-9
110	2	3003.2	34.719	2	34.718	2	1.156	0.946	27.823	0.008	0.0	2	32.4	2	2.20	2	113.8	2	0.040	2	0.011	2	199.45	6	1059	2	2258.5	2	7.6091	2	2359	2	0.50	38.5	-9	-9	-9
109	2	3242.5	34.715	2	34.714	2	1.022	0.792	27.830	0.006	0.0	2	31.9	2	2.24	2	118.4	2	2.112	4	0.012	2	202.02	2	1056	2	2259.4	2	7.6063	2	2359	2	0.40	-9	-9	-9	-9
108	2	3500.6	34.712	2	34.710	2	0.887	0.636	27.837	0.005	0.0	2	32.5	2	2.23	2	123.1	2	2.512	4	0.014	2	204.39	2	1053	2	2259.6	2	7.6061	2	2357	2	0.40	-9	-9	-9	-9
107	2	3749.8	34.708	2	34.707	2	0.733	0.462	27.845	-9	0.0	2	32.9	2	2.25	2	127.4	2	0.045	2	0.016	2	207.60	2	1074	2	2260.4	2	7.6052	2	2358	2	0.40	-9	-9	-9	-9
106	2	3997.0	34.706	2	34.704	2	0.607	0.313	27.852	0.003	0.0	2	33.0	2	2.25	2	130.8	2	0.052	6	0.025	6	209.59	2	1088	2	2261.8	2	7.6045	2	2357	2	0.50	40.3	-9	-9	-9
105	2	4249.6	34.705	2	34.702	2	0.510	0.193	27.857	0.004	0.0	2	32.8	2	2.22	2	133.3	2	0.056	2	0.021	2	214.20	2	1085	2	2261.1	2	7.6033	2	2358	2	0.40	-9	-9	-9	-9
104	2	4498.9	34.704	2	34.701	2	0.447	0.105	27.861	0.004	0.0	2	32.9	2	2.25	2	135.7	2	0.069	2	0.028	2	212.57	2	1088	2	2261.6	2	7.6018	2	2357	2	0.20	-9	-9	-9	-9
103	2	4749.7	34.703	2	34.701	2	0.422	0.053	27.864	0.006	0.0	2	32.9	2	2.24	2	134.9	2	0.076	2	0.035	2	214.35	2	1086	2	2262.0	2	-9	9	2353	2	0.50	-9	-9	-9	-9
102	2	4945.5	34.703	2	34.701	2	0.424	0.033	27.865	0.013	0.0	2	32.7	2	2.26	2	134.2	2	0.076	2	0.042	2	215.17	2	1084	2	2261.6	2	7.6009	2	2357	2	0.40	-9	-9	-9	-9
101	2	5073.0	34.703	2	34.702	2	0.427	0.021	27.865	0.031	0.0	2	33.0	2	2.28	2	136.4	2	0.086	6	0.040	6	215.35	2	1081	2	2262.7	3	7.6026	2	2334	2	0.50	37.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 23 DATE 3/3/94 LATITUDE 60°30.9'S Btm Depth: 5198
CAST 3 LONGITUDE 102°57.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.1	34.079	2	34.081	2	5.697	5.697	26.863	0.147	0.2	2	19.3	2	1.39	2	4.3	2	-9	9	-9	9	-9	1	607	2	-9	9	7.8097	2	-9	9	-9	-9	-9	0.240	0.088
335	2	25.4	34.081	2	34.081	2	5.700	5.698	26.864	0.143	0.2	2	18.8	2	1.41	2	4.4	2	-9	9	-9	9	298.95	2	610	2	-9	9	7.6884	2	-9	9	-9	-9	-9	0.240	0.088
334	2	48.6	34.081	2	34.081	2	5.698	5.694	26.864	0.157	0.2	2	19.2	2	1.42	2	4.2	2	-9	9	-9	9	299.10	2	611	2	-9	9	7.8104	2	-9	9	-9	-9	-9	0.242	0.083
333	2	75.9	34.093	2	34.093	2	5.678	5.672	26.877	0.136	0.2	2	19.1	2	1.43	2	4.4	2	-9	9	-9	9	298.79	2	612	2	-9	9	7.8079	2	-9	9	-9	-9	-9	0.242	0.083
332	2	99.7	34.147	2	34.149	2	4.473	4.465	27.059	0.061	0.5	2	22.4	2	1.64	2	10.0	2	-9	9	-9	9	296.88	2	706	2	2127.5	2	7.7521	2	2277	2	-9	-9	-9	0.200	0.114
331	2	150.7	34.150	2	34.150	2	4.383	4.372	27.071	0.037	0.0	2	23.0	2	1.62	2	10.8	2	-9	9	-9	9	298.96	2	702	2	-9	9	7.7551	2	-9	9	-9	-9	-9	0.017	0.040
330	2	198.8	34.149	2	34.151	2	4.273	4.259	27.082	0.024	0.0	2	23.4	2	1.64	2	11.3	2	-9	9	-9	9	297.20	2	706	2	2127.9	2	7.7517	2	2280	2	-9	-9	-9	0.008	0.035
329	2	296.8	34.138	2	34.139	2	3.974	3.953	27.106	0.018	0.0	2	22.5	2	1.68	2	12.3	2	-9	9	-9	9	294.73	2	729	2	-9	9	7.7413	2	2278	2	-9	-9	-9	-9	-9
328	2	399.3	34.115	2	34.117	2	3.410	3.384	27.143	0.012	0.0	2	25.7	2	1.84	2	17.2	2	-9	9	-9	9	281.93	2	785	2	2148.9	2	7.7102	2	2282	2	-9	-9	-9	-9	-9
327	2	499.4	34.168	2	34.168	2	3.359	3.326	27.191	0.015	0.0	2	28.4	2	1.98	2	23.8	2	-9	9	-9	9	258.27	2	862	2	2165.1	2	7.6758	2	-9	5	-9	-9	-9	-9	-9
326	2	601.3	34.232	2	34.231	2	3.242	3.202	27.254	0.012	0.0	2	30.5	2	2.07	2	32.7	2	-9	9	-9	9	234.59	2	955	2	2185.1	2	7.6425	2	2290	2	-9	-9	-9	-9	-9
325	2	702.1	34.319	2	34.318	2	3.203	3.156	27.327	0.011	0.0	2	32.5	2	2.24	2	44.5	2	-9	9	-9	9	206.73	2	1043	2	2207.9	2	7.6041	2	2304	2	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	802.2	34.374	2	34.374	2	2.950	2.897	27.394	0.013	0.0	2	33.6	2	2.31	2	51.9	2	-9	9	-9	9	193.90	2	1107	2	2221.6	2	7.5879	2	2314	2	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	898.8	34.422	2	34.422	2	2.793	2.734	27.448	0.017	0.0	2	33.6	2	2.38	2	58.7	2	-9	9	-9	9	185.35	2	1127	2	2232.3	2	7.5776	2	2320	2	-9	-9	-9	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	999.0	34.471	2	34.472	2	2.644	2.579	27.500	0.015	0.0	2	34.0	2	2.39	2	64.9	2	-9	9	-9	9	178.97	2	1160	2	2240.2	2	7.5695	2	2327	2	-9	-9	-9	-9	-9
318	2	1197.0	34.559	2	34.559	2	2.439	2.361	27.589	0.013	0.0	2	34.0	2	2.35	2	76.6	2	-9	9	-9	9	172.21	2	-9	9	-9	9	7.5640	2	-9	9	-9	-9	-9	-9	-9
317	2	1398.0	34.620	2	34.620	2	2.302	2.210	27.651	0.012	0.0	2	33.3	2	2.32	2	82.0	2	-9	9	-9	9	172.55	2	-9	9	-9	9	7.5707	2	-9	9	-9	-9	-9	-9	-9
316	2	1596.7	34.668	2	34.668	2	2.195	2.089	27.699	0.010	0.0	2	32.8	2	2.26	2	85.4	2	-9	9	-9	9	175.48	2	-9	9	-9	9	7.5814	2	-9	9	-9	-9	-9	-9	-9
315	3	1798.9	34.699	2	-9	9	2.088	1.966	27.733	0.010	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1995.1	34.720	2	34.720	2	1.935	1.799	27.763	0.009	0.0	2	30.9	2	2.19	2	92.2	2	-9	9	-9	9	186.90	2	1096	2	-9	9	7.5976	2	-9	9	-9	-9	-9	-9	-9
313	2	2209.1	34.725	2	34.726	2	1.737	1.587	27.784	0.009	0.0	2	31.2	2	2.18	2	99.9	2	-9	9	-9	9	187.87	2	-9	9	-9	9	7.6038	2	-9	9	-9	-9	-9	-9	-9
312	2	2501.3	34.725	2	34.725	2	1.538	1.366	27.799	0.007	0.0	2	31.6	2	2.20	2	106.4	2	-9	9	-9	9	191.11	2	-9	9	-9	9	7.6069	2	-9	9	-9	-9	-9	-9	-9
311	2	2749.5	34.724	2	34.723	2	1.397	1.206	27.810	0.006	0.0	2	31.6	2	2.18	2	109.3	2	-9	9	-9	9	195.09	6	-9	9	-9	9	7.6078	2	-9	9	-9	-9	-9	-9	-9
310	2	2999.2	34.721	2	34.721	2	1.251	1.039	27.819	0.008	0.0	2	31.7	2	2.20	2	113.7	2	-9	9	-9	9	198.05	2	1070	2	-9	9	7.6083	2	-9	9	-9	-9	-9	-9	-9
309	2	3248.2	34.717	2	34.716	2	1.108	0.876	27.826	0.005	0.0	2	31.8	2	2.19	2	118.2	2	-9	9	-9	9	199.77	2	-9	9	-9	9	7.6074	2	-9	9	-9	-9	-9	-9	-9
308	2	3496.9	34.713	2	34.712	2	0.983	0.730	27.832	0.008	0.0	2	32.1	2	2.20	2	122.7	2	-9	9	-9	9	204.01	2	-9	9	-9	9	7.6064	2	-9	9	-9	-9	-9	-9	-9
307	2	3749.6	34.710	2	34.710	2	0.839	0.564	27.840	0.005	0.0	2	32.0	2	2.22	2	127.5	2	-9	9	-9	9	206.03	6	-9	9	-9	9	7.6056	2	-9	9	-9	-9	-9	-9	-9
306	2	3999.7	34.706	2	34.704	2	0.673	0.377	27.848	0.003	0.0	2	32.2	2	2.22	2	131.4	2	-9	9	-9	9	209.08	2	1077	6	-9	9	7.6028	2	-9	9	-9	-9	-9	-9	-9
305	2	4246.9	34.704	2	34.704	2	0.563	0.245	27.854	0.003	0.0	2	32.3	2	2.21	2	133.5	2	-9	9	-9	9	211.46	2	-9	9	-9	9	7.6018	2	-9	9	-9	-9	-9	-9	-9
304	2	4499.8	34.704	2	34.702	2	0.476	0.133	27.860	0.003	0.0	2	32.2	2	2.22	2	135.1	2	-9	9	-9	9	213.62	2	-9	9	-9	9	7.6017	2	-9	9	-9	-9	-9	-9	-9
303	2	4741.7	34.703	2	34.702	2	0.446	0.077	27.862	0.006	0.0	2	32.0	2	2.24	2	133.2	2	-9	9	-9	9	214.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	4994.2	34.703	2	34.702	2	0.450	0.052	27.864	0.009	0.0	2	32.0	2	2.23	2	133.6	2	-9	9	-9	9	214.80	2	-9	9	-9	9	7.5995	2	-9	9	-9	-9	-9	-9	-9
301	2	5230.3	34.703	2	34.702	2	0.469	0.042	27.864	0.014	0.0	2	32.3	2	2.24	2	134.6	2	-9	9	-9	9	214.70	2	1085	2	-9	9	7.6025	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 24 DATE 3/4/94 LATITUDE 60°0.0'S Btm Depth: 4978
CAST 1 LONGITUDE 103°6.4'W

Sample ID	P**	Pressure db	Salinity CTD	F*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	13.6	34.083	2	34.084	2	5.637	5.636	26.873	0.162	0.2	2	18.9	2	1.39	2	3.1	2	4.901	2	2.280	2	298.72	2	614	2	2102.3	2	7.8089	2	2277	2	1.80	-9	-9	-9	-9
135	2	24.5	34.084	2	34.084	2	5.642	5.640	26.873	0.159	0.2	2	19.0	2	1.41	2	1.9	2	4.920	2	2.176	2	298.68	2	-9	9	2103.1	2	7.8088	2	2273	2	-9	-9	-9	-9	-9
134	2	51.8	34.085	2	34.086	2	5.635	5.631	26.875	0.146	0.2	2	19.0	2	1.41	2	2.4	2	4.893	6	2.278	6	298.69	2	616	2	2103.8	2	-9	9	2276	2	-9	-9	-9	-9	-9
133	2	73.9	34.091	2	34.091	2	5.576	5.570	26.888	0.136	0.2	2	19.1	2	1.42	2	2.4	2	5.133	2	2.347	2	298.77	2	-9	9	2104.3	2	-9	9	2276	2	-9	-9	-9	-9	-9
132	2	95.6	34.152	2	34.153	2	4.477	4.470	27.062	0.066	0.4	2	22.5	2	1.65	2	8.4	2	5.074	2	2.306	2	296.83	2	707	2	2126.9	2	-9	9	2268	2	-9	-9	-9	-9	-9
131	2	153.8	34.153	2	34.153	2	4.370	4.359	27.074	0.027	0.0	2	23.0	2	1.63	2	8.7	2	5.041	2	2.272	2	298.31	2	-9	9	2125.7	2	-9	9	2276	2	-9	-9	-9	-9	-9
130	2	204.8	34.145	2	34.147	2	4.185	4.171	27.088	0.020	0.0	2	23.5	2	1.63	2	9.6	2	5.142	2	2.222	2	295.04	6	725	2	2130.4	2	-9	9	2277	2	-9	-9	-9	-9	-9
129	2	295.4	34.143	2	34.145	2	4.012	3.992	27.105	0.012	0.0	2	23.6	2	1.66	2	10.3	2	4.869	2	2.223	2	295.68	2	-9	9	2132.0	2	-9	9	-9	5	-9	-9	-9	-9	-9
128	2	391.1	34.114	2	34.115	2	3.465	3.439	27.137	0.017	0.0	2	25.9	2	1.85	2	15.1	2	4.351	2	1.966	6	282.35	2	785	2	2147.1	2	-9	9	2279	2	-9	-9	-9	-9	-9
127	2	515.5	34.171	2	34.166	3	3.392	3.358	27.190	0.010	0.0	2	28.2	2	1.98	2	21.8	2	3.452	2	1.529	2	258.89	2	874	2	2165.3	2	-9	9	2283	2	-9	-9	-9	-9	-9
126	2	606.7	34.212	2	34.213	2	3.196	3.156	27.242	0.011	0.0	2	29.7	2	2.10	2	29.0	2	2.752	3	1.136	3	240.81	2	932	2	2180.1	2	-9	9	2289	2	-9	-9	-9	-9	-9
125	2	700.1	34.306	2	34.305	2	3.287	3.240	27.309	0.011	0.0	2	31.8	2	2.20	2	40.5	2	1.493	3	0.578	2	209.69	2	-9	9	2201.8	2	-9	9	2296	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	804.3	34.362	2	34.361	2	3.015	2.962	27.379	0.013	0.0	2	32.8	2	2.33	2	49.8	2	1.034	2	0.461	2	196.56	2	1100	2	2218.5	2	-9	9	2309	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	901.8	34.413	2	34.413	2	2.811	2.752	27.439	0.014	0.0	2	33.9	2	2.38	2	56.3	2	0.771	2	0.333	2	186.42	2	-9	9	2231.5	2	-9	9	2316	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	1001.9	34.458	2	34.458	2	2.681	2.616	27.487	0.013	0.0	2	34.2	2	2.40	2	61.9	2	0.552	2	0.131	3	180.34	2	1163	2	2236.8	2	-9	9	2324	2	-9	-9	-9	-9	-9
118	2	1202.6	34.549	2	34.549	2	2.461	2.382	27.579	0.010	0.0	2	33.4	2	2.41	2	73.8	2	0.308	3	0.126	2	172.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	1397.7	34.615	2	34.614	2	2.329	2.236	27.645	0.012	0.0	2	32.5	2	2.32	2	79.6	2	0.193	2	0.022	2	171.52	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1597.5	34.664	2	34.664	2	2.215	2.108	27.694	0.010	0.0	2	32.0	2	2.29	2	83.1	2	0.128	2	0.051	2	174.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1795.9	34.696	2	34.695	2	2.095	1.974	27.730	0.009	0.0	2	31.6	2	2.26	2	85.1	2	0.078	2	0.023	2	178.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1996.4	34.717	2	34.716	2	1.962	1.826	27.759	0.010	0.0	2	31.2	2	2.23	2	87.7	2	0.078	2	0.025	2	183.47	2	1086	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	2240.3	34.728	2	34.728	2	1.763	1.610	27.784	0.006	0.0	2	31.1	2	2.21	2	93.5	2	0.066	2	0.016	2	188.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2490.9	34.726	2	34.725	2	1.557	1.386	27.799	0.008	0.0	2	31.0	2	2.22	2	101.9	2	0.108	4	0.006	2	191.18	2	1072	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2736.7	34.725	2	34.726	2	1.415	1.224	27.809	0.006	0.0	2	30.9	2	2.19	2	106.7	2	0.296	4	0.010	2	194.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	3001.3	34.723	2	34.722	2	1.285	1.073	27.818	0.005	0.0	2	31.3	2	2.24	2	109.5	2	0.088	2	0.012	2	197.26	2	1057	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	3238.2	34.718	2	34.717	2	1.126	0.895	27.826	0.003	0.0	2	30.8	2	2.24	2	112.5	2	-9	1	-9	1	200.13	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3496.9	34.714	2	34.713	2	0.981	0.728	27.833	0.005	0.0	2	31.1	2	2.24	2	121.1	2	0.038	2	0.015	2	202.73	2	1073	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3735.2	34.709	2	34.708	2	0.837	0.564	27.840	0.005	0.0	2	31.4	2	2.26	2	122.8	2	0.086	6	0.013	2	205.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3992.1	34.707	2	34.705	2	0.676	0.382	27.848	0.001	0.0	2	32.1	2	2.26	2	128.2	2	0.050	2	0.017	2	208.59	2	1071	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	4243.3	34.705	2	34.703	2	0.571	0.253	27.854	0.002	0.0	2	32.1	2	2.24	2	131.1	2	0.075	2	0.024	2	211.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4490.8	34.704	2	34.702	2	0.476	0.134	27.860	0.004	0.0	2	32.3	2	2.26	2	132.4	2	0.231	4	0.028	2	213.13	2	1083	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4748.0	34.703	2	34.702	2	0.441	0.071	27.863	0.003	0.0	2	31.9	2	2.28	2	132.1	2	0.081	2	0.034	2	213.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4750.7	34.703	2	34.702	2	0.440	0.071	27.863	0.004	0.0	2	31.7	2	2.29	2	131.8	2	0.078	2	0.031	2	214.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	5023.4	34.702	2	34.701	2	0.447	0.045	27.864	0.013	0.0	2	32.1	2	2.29	2	134.3	2	0.076	6	0.034	6	214.86	2	1076	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 25 DATE 3/4/94 LATITUDE 59°31.6'S Btm Depth: 4424
CAST 1 LONGITUDE 103°1.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	9.7	34.076	2	34.082	2	5.612	5.611	26.871	-9	0.1	2	19.1	2	1.38	2	3.4	2	-9	9	-9	9	298.38	2	617	2	-9	1	-9	9	2285	2	-9	-9	-9	-9	-9
123	2	23.2	34.076	2	34.078	2	5.613	5.611	26.871	-9	0.1	2	19.1	2	1.41	2	3.3	2	-9	9	-9	9	298.36	2	617	2	2103.8	2	-9	9	2271	2	-9	-9	-9	-9	-9
122	2	48.7	34.076	2	34.078	2	5.617	5.613	26.871	-9	0.2	2	19.1	2	1.38	2	3.3	2	-9	9	-9	9	296.57	2	618	2	2102.0	2	-9	9	2275	2	-9	-9	-9	-9	-9
121	3	97.7	34.121	2	34.112	2	5.108	5.101	26.967	-9	0.2	2	21.8	2	1.53	2	6.9	2	-9	9	-9	9	296.35	2	690	2	2118.7	2	-9	9	2276	2	-9	-9	-9	-9	-9
120	2	155.1	34.147	2	34.136	2	4.351	4.340	27.072	-9	0.0	2	22.7	2	1.60	2	9.5	2	-9	9	-9	9	297.16	2	716	2	2127.2	2	-9	9	2274	2	-9	-9	-9	-9	-9
119	2	195.4	34.153	2	34.154	2	4.300	4.286	27.082	-9	0.0	2	23.2	2	1.60	2	10.1	2	-9	9	-9	9	297.19	2	716	2	2125.2	2	-9	9	2270	2	-9	-9	-9	-9	-9
118	2	301.9	34.151	2	34.153	2	4.077	4.055	27.105	-9	0.0	2	23.6	2	1.60	2	10.6	2	-9	9	-9	9	295.13	2	720	2	-9	9	-9	9	-9	5	-9	-9	-9	-9	-9
117	2	397.7	34.115	2	34.117	2	3.533	3.506	27.131	-9	0.0	2	26.0	2	1.77	2	15.3	2	-9	9	-9	9	284.20	2	787	2	2143.4	2	-9	9	2280	2	-9	-9	-9	-9	-9
116	2	499.9	34.137	2	34.138	2	3.239	3.207	27.177	-9	0.0	2	28.0	2	1.87	2	20.0	2	-9	9	-9	9	271.23	2	838	2	2155.9	2	-9	9	2284	2	-9	-9	-9	-9	-9
115	2	602.5	34.218	2	34.219	2	3.275	3.235	27.239	-9	0.0	2	30.0	2	2.00	2	29.9	2	-9	9	-9	9	238.88	2	949	2	2178.6	2	-9	9	2286	2	-9	-9	-9	-9	-9
114	2	718.6	34.318	2	34.320	2	3.238	3.190	27.323	-9	0.0	2	32.2	2	2.18	2	42.9	2	-9	9	-9	9	206.61	2	1049	2	2205.1	2	-9	9	2296	2	-9	-9	-9	-9	-9
113	2	797.8	34.357	2	34.359	2	3.037	2.984	27.373	-9	0.0	2	33.4	2	2.18	2	48.5	2	-9	9	-9	9	197.29	2	1089	2	2215.2	2	-9	9	2305	2	-9	-9	-9	-9	-9
112	2	1001.7	34.470	2	34.470	2	2.639	2.574	27.500	-9	0.0	2	34.4	2	2.35	2	63.5	2	-9	9	-9	9	179.15	2	1164	2	2237.9	2	-9	9	2326	2	-9	-9	-9	-9	-9
111	2	1198.7	34.551	2	34.552	2	2.458	2.380	27.581	-9	0.0	2	34.0	2	2.33	2	72.3	2	-9	9	-9	9	172.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1405.5	34.615	2	34.615	2	2.331	2.238	27.644	-9	0.0	2	33.8	2	2.29	2	78.2	2	-9	9	-9	9	172.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1795.3	34.698	2	34.698	2	2.085	1.964	27.733	-9	0.0	2	32.2	2	2.21	2	84.7	2	-9	9	-9	9	179.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2201.1	34.727	2	34.728	2	1.790	1.639	27.781	-9	0.0	2	31.6	2	2.14	2	93.8	2	-9	9	-9	9	187.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2597.3	34.727	2	34.727	2	1.492	1.313	27.804	-9	0.0	2	31.9	2	2.17	2	103.5	2	-9	9	-9	9	193.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3002.7	34.721	2	34.721	2	1.250	1.038	27.819	-9	0.0	2	31.9	2	2.13	2	111.2	2	-9	9	-9	9	197.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3400.4	34.714	2	34.715	2	1.019	0.775	27.831	-9	0.0	2	32.2	2	2.18	2	117.3	2	-9	9	-9	9	202.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3799.6	34.709	2	34.708	2	0.791	0.513	27.842	-9	0.0	2	32.6	2	2.19	2	121.4	2	-9	9	-9	9	206.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4205.1	34.705	2	34.705	2	0.579	0.265	27.854	-9	0.0	2	32.7	2	2.20	2	127.9	2	-9	9	-9	9	210.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4491.8	34.704	2	34.703	2	0.500	0.157	27.859	-9	0.0	2	32.6	2	2.23	2	132.6	2	-9	9	-9	9	213.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4480.0	34.704	2	34.708	3	0.498	0.157	27.859	-9	0.0	2	32.4	2	2.20	2	123.9	4	-9	9	-9	9	205.72	3	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 26 DATE 3/4/94 LATITUDE 58°59.8'S Bttm Depth: 4681
CAST 3 LONGITUDE 103°1.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
324	3	7.8	34.084	2	-9	9	5.632	5.631	26.874	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	3	24.4	34.083	2	34.084	2	5.634	5.632	26.874	-9	0.2	2	18.9	2	1.42	2	4.8	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	49.7	-9	-9	-9
322	3	48.8	34.084	2	34.086	2	5.635	5.631	26.874	-9	0.2	2	18.9	2	1.37	2	4.9	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	53.8	-9	-9	-9
321	3	97.6	34.122	2	34.127	2	4.663	4.656	27.018	-9	0.0	2	22.7	2	1.59	2	10.1	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	51.4	-9	-9	-9
320	3	151.9	34.147	2	34.149	2	4.417	4.406	27.065	-9	0.0	2	22.8	2	1.61	2	11.0	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	54.6	3.0	-9	-9
319	3	199.5	34.139	2	34.140	2	4.235	4.221	27.078	-9	0.0	2	23.4	2	1.63	2	11.6	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	53.0	-9	-9	-9
318	3	298.2	34.143	2	34.144	2	4.028	4.008	27.104	-9	0.0	2	23.6	2	1.66	2	12.3	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	47.4	-9	-9	-9
317	3	402.7	34.121	2	34.122	2	3.562	3.535	27.133	-9	0.0	2	26.3	2	1.96	2	17.4	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	45.4	-9	-9	-9
316	3	501.8	34.123	2	34.120	2	3.193	3.161	27.170	-9	0.0	2	26.5	2	1.82	2	18.7	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
315	3	587.7	34.205	2	34.201	2	3.302	3.263	27.226	-9	0.0	2	29.2	2	2.04	2	28.9	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	46.5	2.4	-9	-9
314	3	803.6	34.347	2	34.345	2	3.084	3.030	27.361	-9	0.0	2	32.6	2	2.26	2	47.1	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	3	1006.9	34.449	2	34.450	2	2.695	2.629	27.478	-9	0.0	2	33.8	2	2.36	2	61.5	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	43.2	-9	-9	-9
312	3	1202.5	34.546	2	34.514	4	2.468	2.389	27.576	-9	0.0	2	33.9	2	2.37	2	69.7	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	39.9	2.2	-9	-9
311	3	1406.5	34.615	2	34.615	2	2.332	2.239	27.644	-9	0.0	2	33.6	2	2.30	2	79.5	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	3	1598.4	34.662	2	34.662	2	2.220	2.113	27.692	-9	0.0	2	32.8	2	2.24	2	84.1	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
309	3	1796.1	34.695	2	34.695	2	2.089	1.968	27.730	-9	0.0	2	32.1	2	2.21	2	86.9	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	3	2166.8	34.727	2	34.727	2	1.833	1.685	27.777	-9	0.0	2	32.8	2	2.17	2	92.5	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	40.4	-9	-9	-9
307	3	2598.4	34.727	2	34.728	2	1.495	1.315	27.804	-9	0.0	2	31.5	2	2.18	2	102.5	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	3	2999.8	34.722	2	34.721	2	1.246	1.034	27.819	-9	0.0	2	31.6	2	2.20	2	110.5	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	34.5	2.6	-9	-9
305	3	3396.8	34.714	2	34.722	3	1.013	0.769	27.831	-9	0.0	2	31.6	2	2.22	2	119.4	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	3	3796.9	34.709	2	34.707	2	0.782	0.504	27.843	-9	0.0	2	32.0	2	2.19	2	127.3	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	3	4206.8	34.705	2	34.704	2	0.557	0.243	27.855	-9	0.0	2	32.3	2	2.23	2	132.7	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	3	4495.2	34.704	2	34.703	2	0.486	0.143	27.860	-9	0.0	2	32.4	2	2.25	2	133.2	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	3	4684.1	34.703	2	34.702	2	0.474	0.111	27.861	-9	0.0	2	32.2	2	2.25	2	133.9	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	38.5	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 27 DATE 3/5/94 LATITUDE 58°30.5'S Btm Depth: 4717
CAST 1 LONGITUDE 102°59.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.8	34.004	2	34.006	2	5.338	5.338	26.847	-9	0.3	2	19.8	2	1.43	2	2.9	2	4.671	2	2.363	2	299.99	2	-9	9	-9	9	7.8015	2	2272	2	-9	50.3	-9	-9	-9
123	2	27.5	33.995	2	34.002	2	5.283	5.281	26.846	-9	0.3	2	19.9	2	1.46	2	2.9	2	4.763	2	2.378	2	300.28	2	-9	9	2107.0	2	7.8021	2	2276	2	-9	47.4	-9	-9	-9
122	2	50.4	33.995	2	33.997	2	5.289	5.286	26.845	-9	0.3	2	19.8	2	1.41	2	2.8	2	4.902	2	2.386	2	300.36	2	-9	9	2092.9	2	7.8013	2	2277	3	-9	-9	-9	-9	-9
121	2	96.5	33.992	2	33.995	2	5.157	5.149	26.859	-9	0.3	2	19.9	2	1.45	2	3.0	2	4.779	2	2.344	2	301.44	2	-9	9	2109.2	2	7.8005	2	2274	2	-9	50.9	3.3	-9	-9
120	2	152.5	34.114	2	34.114	2	4.316	4.305	27.049	-9	0.0	2	23.2	2	1.61	2	9.3	2	4.566	2	2.241	2	293.93	2	-9	9	2129.6	2	7.7503	2	-9	5	-9	44.4	-9	-9	-9
119	2	206.2	34.106	2	34.094	2	4.080	4.066	27.068	-9	0.0	2	24.1	2	1.67	2	10.5	2	4.693	2	2.312	2	293.45	2	-9	9	2134.1	2	7.7414	2	2280	2	-9	47.0	-9	-9	-9
118	2	299.2	34.104	2	34.112	2	3.704	3.683	27.105	-9	0.0	2	23.7	2	1.73	2	12.8	2	4.425	2	2.134	2	289.42	2	-9	9	2138.7	2	7.7298	2	2273	2	-9	38.2	3.4	-9	-9
117	2	399.9	34.118	2	34.121	2	3.389	3.363	27.147	-9	0.0	2	26.4	2	1.81	2	17.0	2	4.014	2	1.954	2	278.38	2	-9	9	2152.2	2	7.7053	2	2280	2	-9	36.6	-9	-9	-9
116	2	499.5	34.178	2	34.180	2	3.337	3.304	27.201	-9	0.0	2	28.6	2	1.95	2	24.5	2	3.139	2	1.468	2	253.53	2	-9	9	2170.1	2	7.6714	2	2287	2	-9	-9	-9	-9	-9
115	2	601.2	34.271	2	34.269	2	3.491	3.449	27.261	-9	0.0	2	30.8	2	2.10	2	33.8	2	1.995	2	0.909	2	222.36	2	-9	9	2191.1	2	7.6320	2	2297	2	-9	43.6	3.4	-9	-9
114	2	703.9	34.313	2	34.313	2	3.199	3.152	27.323	-9	0.0	2	33.6	2	2.21	2	41.7	2	1.475	2	0.672	2	208.51	2	-9	9	2189.1	2	7.6081	2	2304	3	-9	-9	-9	-9	-9
113	2	809.6	34.356	2	34.354	2	2.916	2.863	27.383	-9	0.0	2	33.3	2	2.29	2	49.4	2	1.210	2	0.548	2	198.46	2	-9	9	2216.7	2	7.5918	2	2307	2	-9	44.3	-9	-9	-9
112	2	998.4	34.464	2	34.425	4	2.656	2.590	27.493	-9	0.0	2	34.0	2	2.30	2	59.0	2	1.075	3	0.356	2	186.35	2	-9	9	2230.1	2	7.5774	2	2318	2	-9	-9	2.6	-9	-9
111	2	1204.3	34.546	2	34.581	4	2.388	2.310	27.582	-9	0.0	2	33.7	2	2.29	2	81.1	4	0.080	2	0.034	2	177.63	2	-9	9	2250.5	2	7.5679	2	2335	2	-9	-9	-9	-9	-9
110	2	1401.8	34.621	2	34.620	2	2.316	2.224	27.650	-9	0.0	2	33.4	2	2.30	2	78.9	2	0.193	6	0.077	6	171.65	2	-9	9	2245.7	2	7.5733	2	2353	3	-9	-9	-9	-9	-9
109	2	1805.4	34.698	2	34.697	2	2.072	1.950	27.734	-9	0.0	2	32.3	2	2.21	2	86.2	2	0.079	2	0.030	2	178.05	2	-9	9	2255.2	2	7.5911	2	-9	5	-9	40.7	-9	-9	-9
108	2	2204.7	34.723	2	34.722	2	1.744	1.594	27.781	-9	0.0	2	31.8	2	2.18	2	95.6	2	0.182	4	0.014	2	186.35	2	-9	9	2255.5	2	7.6040	2	2360	2	-9	-9	-9	-9	-9
107	2	2604.5	34.725	2	34.725	2	1.501	1.320	27.803	-9	0.0	2	31.7	2	2.15	2	104.1	2	0.038	2	0.012	2	192.20	2	-9	9	2257.1	2	7.6085	2	2360	2	-9	-9	-9	-9	-9
106	2	3004.4	34.721	2	34.721	2	1.245	1.033	27.819	-9	0.0	2	31.7	2	2.18	2	111.9	2	0.063	2	0.013	2	197.70	2	-9	9	2257.1	2	7.6096	2	2361	2	-9	37.8	2.5	-9	-9
105	2	3404.5	34.714	2	34.712	2	1.005	0.761	27.831	-9	0.0	2	32.0	2	2.20	2	117.3	2	0.144	4	0.017	2	202.39	2	-9	9	2256.9	2	7.6069	2	2359	2	-9	-9	-9	-9	-9
104	2	3803.1	34.708	2	34.708	2	0.762	0.484	27.843	-9	0.0	2	32.4	2	2.21	2	123.0	2	0.044	2	0.019	2	207.06	2	-9	9	2260.1	2	7.6061	2	2356	2	-9	-9	-9	-9	-9
103	2	4209.2	34.705	2	34.705	2	0.553	0.238	27.855	-9	0.0	2	32.6	2	2.22	2	130.0	2	0.066	2	0.028	2	211.49	2	-9	9	2260.1	2	7.6047	2	2362	2	-9	41.9	-9	-9	-9
102	2	4596.1	34.703	2	34.703	2	0.489	0.135	27.860	-9	0.0	2	32.4	2	2.21	2	130.6	2	0.081	2	0.036	2	-9	1	-9	9	2258.8	2	7.6026	2	-9	5	-9	-9	-9	-9	-9
101	2	4824.3	34.703	2	34.703	2	0.507	0.126	27.860	-9	0.0	2	32.5	2	2.21	2	136.0	2	0.068	2	0.035	2	-9	1	-9	9	2258.9	2	7.6042	2	2362	2	-9	36.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 28 DATE 3/5/94 LATITUDE 57°49.1'S Btm Depth: 4591
CAST 1 LONGITUDE 103°0.1'W

Sample ID	P**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	33.961	2	33.963	2	5.427	5.426	26.802	0.134	0.2	2	20.7	2	1.49	2	2.3	2	4.984	2	2.365	2	301.89	2	631	2	2106.6	2	7.7978	2	2277	2	1.80	-9	-9	-9	-9
135	2	25.7	33.961	2	33.963	2	5.426	5.424	26.802	0.134	0.2	2	20.0	2	1.49	2	2.1	2	4.903	2	2.199	6	301.56	2	630	2	-9	1	7.7985	2	2272	2	1.80	-9	-9	-9	-9
134	2	50.4	33.961	2	33.963	2	5.412	5.408	26.804	0.135	0.2	2	20.5	2	1.49	2	2.4	2	4.661	2	2.317	2	301.42	2	633	2	-9	1	7.7986	2	2274	2	1.80	-9	-9	-9	-9
133	2	77.3	33.965	2	33.966	2	5.410	5.404	26.808	0.121	0.2	2	20.4	2	1.49	2	2.3	2	4.993	2	2.339	2	301.21	2	637	2	-9	1	7.7999	2	2274	2	1.90	-9	-9	-9	-9
132	2	93.8	34.135	2	34.140	2	5.358	5.351	26.948	0.059	0.3	2	20.6	2	1.49	2	4.7	2	4.294	2	2.135	2	290.71	2	664	2	-9	1	7.7787	2	2272	2	1.60	-9	-9	-9	-9
131	2	149.1	34.157	2	34.157	2	4.998	4.987	27.008	0.031	0.0	2	22.5	2	1.58	2	8.1	2	4.576	2	2.180	2	288.98	2	708	2	-9	1	7.7559	2	2276	2	1.50	-9	-9	-9	-9
130	2	202.8	34.191	2	34.192	2	5.062	5.046	27.029	0.030	0.0	2	22.3	2	1.56	2	8.4	2	4.391	6	2.135	6	288.17	2	700	2	-9	1	7.7587	2	2273	2	1.50	-9	-9	-9	-9
129	2	303.1	34.153	2	34.155	2	4.557	4.535	27.056	0.016	0.0	2	26.0	2	1.83	2	16.3	2	3.671	2	1.771	2	283.56	2	743	2	-9	1	7.7412	2	2276	2	1.40	-9	-9	-9	-9
128	2	399.8	34.167	2	34.167	2	4.269	4.240	27.099	0.017	0.0	2	27.9	2	1.92	2	22.1	2	3.616	2	1.663	2	259.84	2	818	2	-9	1	7.7015	2	2279	2	1.30	-9	-9	-9	-9
127	2	495.5	34.191	2	34.194	2	3.894	3.859	27.157	0.013	0.0	2	30.3	2	2.10	2	32.2	2	2.901	2	1.382	6	246.75	2	882	2	-9	1	7.6748	2	2280	2	1.10	-9	-9	-9	-9
126	2	605.0	34.282	2	34.286	2	3.833	3.790	27.237	0.016	0.0	2	31.5	2	2.18	2	38.3	2	1.481	2	0.670	2	219.49	2	978	2	-9	1	7.6371	2	2296	2	1.00	-9	-9	-9	-9
125	2	700.2	34.312	2	34.314	2	3.490	3.441	27.294	0.009	0.0	2	31.6	2	2.19	2	38.2	2	1.418	2	0.644	2	209.29	2	1026	2	2200.3	2	7.6180	2	2291	2	0.90	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	792.5	34.358	2	34.359	2	3.266	3.212	27.353	0.013	0.0	2	32.4	2	2.27	2	46.2	2	1.215	3	0.426	3	197.60	2	1080	2	2213.0	2	7.5995	2	2307	2	0.70	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	901.5	34.400	2	34.401	2	2.994	2.934	27.412	0.012	0.0	2	33.0	2	2.32	2	53.9	2	1.580	4	1.601	4	189.05	2	1115	2	2224.7	2	7.5859	2	2316	2	0.70	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	1003.0	34.438	2	34.436	2	2.771	2.705	27.463	0.013	0.0	2	33.6	2	2.35	2	59.8	2	0.617	2	0.285	2	183.90	2	1147	2	2233.4	2	7.5777	2	2323	2	-9	-9	-9	-9	-9
118	2	1199.8	34.527	2	34.528	2	2.522	2.443	27.557	0.011	0.0	2	33.7	2	2.39	2	69.6	2	0.340	2	0.157	6	173.99	2	-9	9	2236.9	2	7.5670	2	2331	2	0.50	-9	-9	-9	-9
117	2	1405.5	34.608	2	34.609	2	2.351	2.258	27.637	0.010	0.0	2	33.1	2	2.35	2	77.0	2	0.214	3	0.080	2	171.46	2	1166	2	2235.8	2	7.5694	2	-9	5	-9	-9	-9	-9	-9
116	2	1597.6	34.660	2	34.660	2	2.232	2.125	27.689	0.009	0.0	2	32.5	2	2.29	2	81.3	2	0.268	3	0.047	2	174.26	2	-9	9	2246.8	2	7.5783	2	2339	2	0.40	-9	-9	-9	-9
115	2	1797.7	34.686	2	34.686	2	2.161	2.039	27.717	0.014	0.0	2	32.1	2	2.25	2	84.4	2	-9	1	-9	1	177.25	2	1129	2	2255.7	2	7.5851	2	-9	5	-9	-9	-9	-9	-9
114	2	1999.9	34.710	2	34.710	2	2.043	1.906	27.746	0.011	0.0	2	31.6	2	2.22	2	87.9	2	0.157	4	0.030	2	181.90	2	1100	2	2253.4	2	7.5938	2	2349	2	0.40	-9	-9	-9	-9
113	2	2254.1	34.726	2	34.726	2	1.851	1.695	27.776	0.007	0.0	2	31.1	2	2.16	2	93.1	2	0.069	2	0.039	2	187.73	6	-9	9	2253.6	2	7.6017	2	2356	2	-9	-9	-9	-9	-9
112	2	2499.2	34.727	2	34.727	2	1.624	1.451	27.795	0.007	0.0	2	30.8	2	2.19	2	100.3	2	0.045	2	0.014	2	190.90	2	1076	2	2257.9	2	7.6059	2	2360	2	0.50	-9	-9	-9	-9
111	2	2748.8	34.726	2	34.726	2	1.461	1.268	27.807	0.006	0.0	2	31.2	2	2.20	2	102.4	2	0.050	2	0.008	2	193.98	2	-9	9	2256.2	2	7.6084	2	2358	2	-9	-9	-9	-9	-9
110	2	2995.6	34.722	2	34.722	2	1.280	1.068	27.817	0.004	0.0	2	31.4	2	2.21	2	107.8	2	0.415	4	0.011	2	197.12	2	1067	2	2259.2	2	7.6085	2	2361	2	0.40	-9	-9	-9	-9
109	2	3251.0	34.718	2	34.718	2	1.136	0.903	27.825	0.006	0.0	2	31.4	2	2.22	2	113.5	2	0.040	2	0.012	2	200.09	2	-9	9	2260.3	2	7.6073	2	2359	2	-9	-9	-9	-9	-9
108	2	3499.5	34.713	2	34.713	2	0.979	0.726	27.833	0.005	0.0	2	31.8	2	2.24	2	120.0	2	0.042	2	0.016	2	203.20	2	1077	2	2258.9	2	7.6050	2	2357	2	0.40	-9	-9	-9	-9
107	2	3752.7	34.709	2	34.709	2	0.848	0.573	27.839	0.005	0.0	2	30.2	4	2.23	2	124.6	2	0.059	2	0.019	2	205.58	6	-9	9	2261.3	2	7.6048	2	2357	2	-9	-9	-9	-9	-9
106	2	3998.2	34.707	2	34.707	2	0.694	0.398	27.847	0.003	0.0	2	32.2	2	2.25	2	129.4	2	0.054	6	0.021	6	208.58	2	1073	2	2260.7	2	7.6040	2	2366	2	0.40	-9	-9	-9	-9
105	2	4244.8	34.706	2	34.706	2	0.584	0.266	27.854	0.005	0.0	2	32.6	2	2.26	2	133.2	2	0.065	2	0.028	2	210.85	2	1081	2	2263.1	2	7.6050	2	2361	2	-9	-9	-9	-9	-9
104	2	4247.0	34.705	2	34.705	2	0.585	0.266	27.854	0.004	0.0	2	31.9	2	2.26	2	133.1	2	0.061	6	0.025	6	210.51	2	-9	9	2261.7	2	7.6039	2	2364	2	-9	-9	-9	-9	-9
103	2	4500.4	34.704	2	34.704	2	0.533	0.188	27.857	0.004	0.0	2	32.4	2	2.26	2	136.1	2	0.067	2	0.029	2	211.69	2	-9	9	2262.1	2	7.6023	2	2363	2	-9	-9	-9	-9	-9
102	2	4500.0	34.704	2	34.704	2	0.532	0.187	27.857	0.004	0.0	2	32.4	2	2.25	2	137.3	2	0.073	2	0.028	2	212.12	2	1072	2	2262.3	2	7.6034	2	2362	2	0.40	-9	-9	-9	-9
101	2	4734.3	34.704	2	34.704	2	0.523	0.152	27.859	0.011	0.0	2	32.2	2	2.25	2	135.7	2	0.065	2	0.030	6	212.37	2	1080	2	2259.9	2	7.6041	2	2361	2	0.40	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 29 DATE 3/6/94 LATITUDE 57°10.3'S Btm Depth: 4157
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.5	34.005	2	34.006	2	5.793	5.792	26.792	-9	0.2	2	19.3	2	1.44	2	0.7	2	-9	1	-9	1	298.70	2	-9	9	2101.3	2	7.8041	2	2272	2	-9	-9	-9	-9	-9
123	2	30.5	34.007	2	34.008	2	5.796	5.793	26.794	-9	0.2	2	20.0	2	1.49	2	1.0	2	4.770	2	2.302	2	299.04	2	626	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	49.8	34.007	2	-9	9	5.797	5.793	26.794	-9	0.2	2	20.4	2	1.57	2	1.1	2	-9	9	-9	9	298.61	2	-9	9	2104.5	2	-9	9	2273	2	-9	-9	-9	-9	-9
121	2	100.3	34.073	2	34.075	2	5.444	5.436	26.889	-9	0.2	2	20.7	2	1.55	2	3.2	2	4.736	2	2.285	2	294.11	2	665	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	146.9	34.144	2	34.143	2	4.800	4.789	27.021	-9	0.0	2	23.0	2	1.61	2	7.6	2	-9	9	-9	9	291.42	2	-9	9	2127.0	2	7.7563	2	2275	2	-9	-9	-9	-9	-9
119	2	201.3	34.178	2	34.180	2	4.885	4.870	27.039	-9	0.0	2	22.7	2	1.62	2	7.9	2	4.375	2	2.105	2	286.11	2	709	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	300.6	34.153	2	34.163	2	4.480	4.458	27.064	-9	0.0	2	23.9	2	1.69	2	10.5	2	-9	9	-9	9	279.77	2	-9	9	2134.8	2	7.7335	2	2279	2	-9	-9	-9	-9	-9
117	2	408.4	34.176	2	34.169	2	4.282	4.252	27.105	-9	0.0	2	26.7	2	1.84	2	15.2	2	4.708	4	1.620	2	260.57	2	813	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	498.6	34.186	2	34.185	2	3.951	3.916	27.148	-9	0.0	2	27.6	2	1.93	2	19.0	2	-9	9	-9	9	252.82	2	-9	9	2161.4	2	7.6865	2	2291	2	-9	-9	-9	-9	-9
115	3	598.8	34.251	2	-9	5	3.924	3.881	27.203	-9	0.0	2	30.2	2	1.99	2	27.2	2	-9	1	-9	1	-9	1	925	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	695.5	34.284	2	34.286	2	3.591	3.542	27.262	-9	0.0	2	31.8	2	1.14	4	34.9	2	-9	9	-9	9	216.42	2	-9	9	2192.9	2	7.6247	2	2296	2	-9	-9	-9	-9	-9
113	2	802.1	34.324	2	34.323	2	3.275	3.221	27.325	-9	0.0	2	32.5	2	2.27	2	42.8	2	1.340	2	0.604	2	206.40	2	1051	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	893.4	34.367	2	34.367	2	3.037	2.977	27.382	-9	0.0	2	33.2	2	2.29	2	50.1	2	-9	9	-9	9	195.74	2	-9	9	2219.5	2	7.5920	2	2304	2	-9	-9	-9	-9	-9
111	2	997.0	34.416	2	34.418	2	2.834	2.767	27.440	-9	0.0	2	34.1	2	2.38	2	58.1	2	0.776	2	0.407	2	186.61	2	1123	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1096.3	34.461	2	34.461	2	2.696	2.623	27.488	-9	0.0	2	33.9	2	2.37	2	64.0	2	-9	9	-9	9	180.29	2	-9	9	2240.3	2	7.5709	2	2326	2	-9	-9	-9	-9	-9
109	2	1200.3	34.510	2	34.516	3	2.560	2.481	27.540	-9	0.0	2	34.2	2	2.34	2	70.0	2	0.446	2	0.186	2	175.74	2	1157	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	4	1401.5	34.587	2	-9	9	2.388	2.295	27.617	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	3	1804.1	34.684	2	-9	5	2.159	2.036	27.716	-9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2200.5	34.721	2	34.727	3	1.875	1.724	27.770	-9	0.0	2	31.6	2	0.66	4	93.9	2	-9	9	-9	9	184.33	2	-9	9	2257.0	2	7.6005	2	2354	2	-9	-9	-9	-9	-9
105	2	2605.8	34.720	2	34.719	2	1.558	1.377	27.794	-9	0.0	2	32.0	2	2.21	2	104.2	2	0.120	4	0.010	2	187.67	2	1046	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2996.7	34.723	2	34.723	2	1.360	1.146	27.813	-9	0.0	2	31.5	2	2.20	2	107.1	2	-9	9	-9	9	195.93	2	-9	9	2260.4	2	7.6071	2	2361	2	-9	-9	-9	-9	-9
103	2	3394.3	34.717	2	34.716	2	1.104	0.858	27.827	-9	0.0	2	32.3	2	0.69	4	116.6	2	0.032	2	0.011	2	201.01	2	1076	2	2260.5	2	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3794.9	34.710	2	34.709	2	0.847	0.567	27.840	-9	0.0	2	33.6	4	0.42	4	129.0	2	-9	9	-9	9	206.99	2	-9	9	2259.1	2	7.6083	2	2368	2	-9	-9	-9	-9	-9
101	2	4152.9	34.707	2	34.705	2	0.660	0.348	27.850	-9	0.0	2	32.3	2	2.25	2	133.5	2	0.055	2	0.014	2	210.11	2	1069	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 30 DATE 3/7/94 LATITUDE 56°31.6'S Btm Depth: 4527
CAST 1 LONGITUDE 103°4.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	20.7	34.094	2	-9	9	6.426	6.425	26.782	-9	0.2	2	18.5	2	1.41	2	1.9	2	4.614	2	2.211	2	294.51	2	601	2	2099.4	2	-9	9	-9	5	-9	43.8	-9	-9	-9
123	2	46.3	34.094	2	34.096	2	6.428	6.424	26.782	-9	0.2	2	18.1	2	1.37	2	1.8	2	4.636	2	2.241	2	294.50	2	601	2	2100.0	2	-9	9	2247	2	-9	35.9	-9	-9	-9
122	2	72.1	34.094	2	-9	9	6.429	6.423	26.782	-9	-9	9	-9	9	-9	9	-9	9	4.596	2	2.214	2	294.50	2	603	2	2097.8	2	-9	9	2280	2	-9	-9	-9	-9	-9
121	2	103.1	34.102	2	34.097	2	6.078	6.070	26.835	-9	0.2	2	18.4	2	1.37	2	2.0	2	4.647	2	2.227	2	294.50	2	622	2	2100.5	2	-9	9	2279	2	-9	-9	-9	-9	-9
120	2	151.5	34.152	2	34.161	2	4.703	4.692	27.038	-9	0.0	2	22.4	2	1.57	2	8.0	2	4.770	2	2.284	2	294.01	2	708	2	2125.0	2	-9	9	2276	2	-9	33.0	-9	-9	-9
119	2	199.1	34.138	2	-9	9	4.536	4.521	27.045	-9	0.0	2	23.3	2	1.67	2	9.2	2	4.722	2	2.256	2	294.37	2	734	2	2128.0	2	-9	9	2280	2	-9	-9	-9	-9	-9
118	4	302.4	34.127	2	-9	9	4.172	4.150	27.076	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	400.4	34.141	2	-9	9	3.983	3.955	27.107	-9	0.0	2	26.1	2	1.88	2	15.5	2	3.866	2	1.798	2	271.25	2	803	2	2147.5	2	-9	9	2279	2	-9	-9	-9	-9	-9
116	2	503.7	34.189	2	34.191	2	3.845	3.809	27.161	-9	0.0	2	27.8	2	1.98	2	21.7	2	3.174	2	1.454	2	249.86	2	895	2	2164.7	2	-9	9	2288	2	-9	-9	-9	-9	-9
115	2	587.3	34.248	2	34.251	2	3.762	3.721	27.216	-9	0.0	2	28.1	2	2.08	2	29.4	2	2.317	3	0.984	3	227.71	2	955	2	2181.8	2	-9	9	2297	2	-9	-9	-9	-9	-9
114	3	638.6	34.270	2	34.275	3	3.685	3.641	27.242	-9	0.0	2	30.2	2	2.14	2	33.4	2	-9	1	-9	1	-9	1	991	2	2187.0	2	-9	9	2293	2	-9	32.4	-9	-9	-9
113	2	801.6	34.341	2	34.343	2	3.195	3.141	27.346	-9	0.0	2	32.1	2	2.29	2	45.9	2	1.200	2	0.563	2	204.35	2	1071	2	2211.9	2	-9	9	2309	2	-9	-9	-9	-9	-9
112	3	1003.0	34.431	2	34.431	2	2.792	2.726	27.456	-9	0.0	2	34.7	2	2.39	2	58.4	2	-9	9	-9	9	-9	9	1144	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	3	1208.5	34.517	2	34.515	2	2.545	2.465	27.547	-9	0.0	2	33.7	2	2.41	2	68.6	2	-9	1	-9	1	-9	9	1164	2	2244.3	2	-9	9	2332	2	-9	42.7	-9	-9	-9
110	2	1400.0	34.591	2	34.592	2	2.388	2.295	27.620	-9	0.0	2	33.2	2	2.39	2	76.7	2	0.208	2	0.097	2	171.54	2	1185	2	2252.6	2	-9	9	-9	5	-9	-9	-9	-9	-9
109	2	1799.6	34.687	2	-9	9	2.147	2.025	27.719	-9	0.0	2	33.0	2	2.29	2	88.4	2	0.079	2	0.036	2	176.47	2	1126	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	3	2198.7	34.718	2	-9	9	1.872	1.720	27.768	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	3	2591.2	34.719	2	34.721	2	1.560	1.379	27.794	-9	0.0	2	31.5	2	2.26	2	106.9	2	-9	9	-9	9	-9	9	1072	2	2265.0	2	-9	9	2363	2	-9	30.2	-9	-9	-9
106	2	3005.2	34.722	2	34.723	2	1.384	1.169	27.811	-9	0.0	2	31.3	2	2.23	2	106.6	2	0.075	4	0.008	2	194.65	2	1064	2	2259.2	2	-9	9	2362	2	-9	-9	-9	-9	-9
105	2	3403.4	34.716	2	-9	9	1.104	0.858	27.827	-9	-9	1	-9	1	-9	1	-9	1	0.021	2	0.013	2	200.00	2	1065	2	2261.5	2	-9	9	2366	2	-9	-9	-9	-9	-9
104	2	3791.5	34.710	2	-9	9	0.815	0.537	27.841	-9	-9	9	-9	9	-9	9	-9	9	0.014	2	0.011	2	205.19	2	1062	2	2263.8	2	-9	9	2368	2	-9	-9	-9	-9	-9
103	2	4189.6	34.707	2	-9	9	0.647	0.332	27.851	-9	0.0	2	32.4	2	2.35	2	131.4	2	0.023	2	0.016	2	208.92	2	1075	2	2264.9	2	-9	9	2369	2	-9	39.9	-9	-9	-9
102	2	-9	-9	9	-9	9	-9	-9	-9	-9	0.0	2	31.8	2	2.30	2	130.7	2	0.053	2	0.025	2	210.76	2	1054	2	2262.7	2	-9	9	-9	5	-9	44.3	-9	-9	-9
101	2	-9	-9	9	-9	9	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	0.063	2	0.026	2	210.80	2	1071	2	2261.6	2	-9	9	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 31 DATE 3/7/94 LATITUDE 55°49.6'S Btm Depth: 4687
CAST 1 LONGITUDE 102°59.4'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.5	34.052	2	-9	9	6.045	6.044	26.798	-9	-9	9	-9	9	-9	9	-9	9	4.729	2	2.379	2	297.04	2	-9	9	-9	9	-9	9	2277	2	1.60	-9	-9	-9	-9
123	2	21.5	34.052	2	34.054	2	6.046	6.044	26.798	-9	0.2	2	18.3	2	1.34	2	2.1	2	-9	9	-9	9	297.39	2	-9	9	2104.3	2	7.8097	2	2268	2	-9	-9	-9	-9	-9
122	2	53.2	34.052	2	34.056	2	6.049	6.044	26.798	-9	0.2	2	18.3	2	1.40	2	2.2	2	4.694	2	2.276	2	297.49	2	-9	9	2104.3	2	7.8089	2	2279	2	-9	-9	-9	-9	-9
121	2	98.8	34.084	2	34.086	2	6.030	6.021	26.826	-9	0.2	2	18.4	2	1.38	2	2.7	2	-9	9	-9	9	294.74	2	-9	9	2106.9	2	7.8032	2	2276	2	-9	-9	-9	-9	-9
120	2	150.3	34.244	2	34.247	2	5.529	5.517	27.015	-9	0.0	2	20.3	2	1.48	2	7.4	2	4.439	2	2.149	2	285.75	2	-9	9	2124.4	2	7.7654	2	2281	2	-9	-9	-9	-9	-9
119	2	198.0	34.240	2	34.241	2	5.399	5.383	27.028	-9	0.0	2	20.6	2	1.49	2	8.2	2	-9	9	-9	9	284.98	2	-9	9	2125.0	2	7.7643	2	2279	2	-9	-9	-9	-9	-9
118	2	300.7	34.171	2	34.173	2	4.745	4.723	27.050	-9	0.0	2	22.0	2	1.59	2	9.3	2	4.508	2	2.165	2	289.56	2	-9	9	2130.4	2	7.7535	2	2281	2	-9	-9	-9	-9	-9
117	2	401.5	34.142	2	34.145	2	4.250	4.221	27.081	-9	0.0	2	23.4	2	1.62	2	10.9	2	-9	9	-9	9	288.54	2	-9	9	2139.4	2	7.7398	2	-9	5	-9	-9	-9	-9	-9
116	2	498.8	34.183	2	34.145	4	4.050	4.014	27.135	-9	0.0	2	22.7	2	1.66	2	10.9	2	4.403	2	2.092	2	288.96	3	-9	9	2135.1	2	7.7407	2	2279	2	-9	-9	-9	-9	-9
115	2	598.6	34.267	2	34.271	2	4.175	4.131	27.190	-9	0.0	2	28.6	2	2.00	2	26.7	2	-9	9	-9	9	223.66	2	-9	9	2178.5	2	7.6520	2	2296	2	-9	-9	-9	-9	-9
114	2	799.0	34.306	2	34.308	2	3.307	3.253	27.308	-9	0.0	2	31.0	2	2.18	2	39.6	2	1.515	2	0.686	2	210.37	2	-9	9	2200.0	2	7.6135	2	2303	2	-9	-9	-9	-9	-9
113	2	1001.1	34.407	2	34.406	2	2.888	2.821	27.428	-9	0.0	2	32.7	2	2.31	2	55.2	2	-9	9	-9	9	189.01	2	-9	9	2227.5	2	7.5828	2	2319	2	-9	-9	-9	-9	-9
112	2	1202.2	34.501	2	-9	4	2.585	2.506	27.530	-9	0.0	2	34.3	2	2.37	2	69.6	2	0.437	2	0.201	2	176.51	2	-9	9	2245.0	2	-9	9	2332	2	-9	-9	-9	-9	-9
111	2	1404.1	34.576	2	34.577	2	2.420	2.326	27.606	-9	0.0	2	33.0	2	2.32	2	76.0	2	-9	9	-9	9	171.95	2	-9	9	2251.1	2	7.5669	2	2339	2	-9	-9	-9	-9	-9
110	2	1702.6	34.661	2	34.660	2	2.240	2.125	27.690	-9	0.0	2	32.2	2	2.21	2	84.1	2	0.106	2	0.047	2	173.53	2	-9	9	2256.5	2	7.5813	2	2344	2	-9	-9	-9	-9	-9
109	2	1998.2	34.702	2	-9	9	2.037	1.900	27.741	-9	0.0	2	32.5	2	2.24	2	94.7	2	-9	9	-9	9	177.45	2	-9	9	2258.9	2	-9	9	2358	2	-9	-9	-9	-9	-9
108	4	2297.4	34.717	2	-9	9	1.787	1.628	27.774	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2599.6	34.716	2	34.716	2	1.579	1.397	27.790	-9	0.0	2	31.4	2	2.20	2	105.3	2	-9	9	-9	9	186.42	2	-9	9	2268.1	2	7.6055	2	2366	2	-9	-9	-9	-9	-9
106	2	2998.2	34.722	2	34.722	2	1.402	1.187	27.809	-9	0.0	2	30.9	2	2.18	2	106.7	2	-9	1	-9	1	193.76	2	-9	9	2261.4	2	7.6101	2	2361	2	-9	-9	-9	-9	-9
105	2	3401.8	34.716	2	34.717	2	1.128	0.881	27.825	-9	0.0	2	31.4	2	2.18	2	114.6	2	-9	9	-9	9	200.77	2	-9	9	2260.6	2	7.6079	2	2365	2	-9	-9	-9	-9	-9
104	2	3801.3	34.711	2	34.710	2	0.844	0.564	27.841	-9	0.0	2	31.7	2	2.20	2	125.9	2	1.675	4	0.011	2	204.39	2	-9	9	2264.3	2	7.6107	2	2365	2	-9	-9	-9	-9	-9
103	2	4201.6	34.707	2	34.707	2	0.669	0.352	27.850	-9	0.0	2	31.8	2	2.18	2	132.2	2	-9	9	-9	9	208.03	2	-9	9	2265.6	2	7.6091	2	2364	2	-9	-9	-9	-9	-9
102	2	4600.9	34.706	2	34.705	2	0.634	0.275	27.854	-9	0.0	2	32.7	2	2.20	2	131.9	2	0.045	2	0.020	2	210.40	2	-9	9	2264.2	2	7.6074	2	2366	2	-9	-9	-9	-9	-9
101	2	4753.4	34.705	2	34.706	2	0.638	0.262	27.854	-9	0.0	2	31.2	2	2.22	2	130.6	2	0.040	2	0.022	2	210.11	2	-9	9	2264.0	2	7.6073	2	2365	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 32 DATE 3/8/94 LATITUDE 55°10.0'S Btm Depth: 4510
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	11.6	34.191	2	34.192	2	6.950	6.949	26.789	-9	0.2	2	16.2	2	1.21	2	0.0	2	4.599	2	2.230	2	290.72	2	583	2	2096.3	2	-9	9	2282	2	-9	-9	-9	-9	-9
123	2	22.1	34.191	2	34.192	2	6.950	6.948	26.788	-9	0.2	2	16.1	2	1.25	2	0.0	2	4.633	2	2.232	2	290.85	2	582	2	2096.7	2	-9	9	2281	2	-9	-9	-9	-9	-9
122	2	47.5	34.191	2	34.191	2	6.954	6.950	26.788	-9	0.2	2	16.0	2	1.24	2	0.0	2	4.491	2	2.171	2	291.35	2	595	2	2096.2	2	-9	9	2281	2	-9	-9	-9	-9	-9
121	2	97.4	34.191	2	34.191	2	6.958	6.949	26.788	-9	0.2	2	16.4	2	1.26	2	0.0	2	4.494	2	2.137	2	290.53	2	690	4	2095.9	2	-9	9	2277	2	-9	-9	-9	-9	-9
120	2	147.8	34.300	2	34.301	2	6.165	6.152	26.980	-9	0.0	2	19.4	2	1.46	2	5.5	2	4.428	2	2.169	2	283.26	2	599	2	2117.2	2	-9	9	2280	2	-9	-9	-9	-9	-9
119	2	196.3	34.272	2	34.273	2	5.787	5.771	27.006	-9	0.0	2	20.4	2	1.44	2	7.0	2	4.324	2	2.089	4	282.99	2	672	2	2122.7	2	-9	9	2276	2	-9	-9	-9	-9	-9
118	2	298.5	34.251	2	34.252	2	5.515	5.490	27.024	-9	0.0	2	20.8	2	1.51	2	8.0	2	4.294	2	2.057	2	283.81	2	703	2	2127.7	2	-9	9	2273	2	-9	-9	-9	-9	-9
117	2	398.2	34.201	2	34.202	2	5.027	4.996	27.042	-9	0.0	2	21.6	2	1.58	2	8.5	2	4.356	2	2.114	2	286.58	2	711	2	2127.8	2	-9	9	2277	2	-9	-9	-9	-9	-9
116	2	496.9	34.174	2	34.180	3	4.763	4.725	27.052	-9	0.0	2	22.0	2	1.60	2	8.5	2	4.459	2	2.135	2	289.46	2	718	2	2130.9	2	-9	9	2278	2	-9	-9	-9	-9	-9
115	2	598.5	34.211	2	34.212	2	4.604	4.558	27.100	-9	0.0	2	25.5	2	1.83	2	15.8	2	3.137	2	1.478	2	252.92	2	813	2	2152.6	2	-9	9	2282	2	-9	-9	-9	-9	-9
114	2	697.0	34.274	2	34.275	2	4.483	4.429	27.164	-9	0.0	2	28.0	2	2.03	2	24.3	2	1.998	2	0.915	2	224.21	2	928	2	2175.0	2	-9	9	2286	2	-9	-9	-9	-9	-9
113	2	800.0	34.290	2	34.290	2	4.042	3.983	27.223	-9	0.0	2	29.7	2	2.13	2	30.5	2	1.683	2	0.760	2	216.58	2	966	2	2187.4	2	-9	9	2295	2	-9	-9	-9	-9	-9
112	2	898.6	34.324	2	34.324	2	3.673	3.608	27.288	-9	0.0	2	31.0	2	2.22	2	38.3	2	1.181	2	0.538	2	205.99	2	1029	2	2203.9	2	-9	9	2297	2	-9	-9	-9	-9	-9
111	2	998.8	34.345	2	34.345	2	3.316	3.246	27.340	-9	0.0	2	32.2	2	2.22	2	44.8	2	1.028	2	0.470	2	201.05	2	1057	2	2211.1	2	-9	9	2299	2	-9	-9	-9	-9	-9
110	2	1199.2	34.427	2	34.424	2	2.821	2.739	27.451	-9	0.0	2	33.1	2	2.37	2	58.1	2	0.656	2	0.304	2	185.33	2	1129	2	2239.1	2	-9	9	2324	2	-9	-9	-9	-9	-9
109	4	1397.6	34.514	2	-9	9	2.568	2.473	27.544	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	4	1798.1	34.648	2	-9	9	2.283	2.159	27.677	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2197.5	34.708	2	34.709	2	2.044	1.889	27.747	-9	0.0	2	31.0	2	2.24	2	87.0	2	0.051	2	0.024	2	180.64	2	1106	2	2256.7	2	-9	9	2349	2	-9	-9	-9	-9	-9
106	2	2602.6	34.725	2	34.723	2	1.732	1.547	27.786	-9	0.0	2	31.0	2	2.25	2	96.4	2	0.038	2	0.014	2	187.75	2	1075	2	2260.7	2	-9	9	2357	2	-9	-9	-9	-9	-9
105	2	2997.4	34.724	2	34.723	2	1.468	1.252	27.806	-9	0.0	2	31.1	2	2.22	2	104.6	2	0.229	4	0.014	2	193.25	2	1069	2	2259.9	2	-9	9	2360	2	-9	-9	-9	-9	-9
104	2	3398.1	34.717	2	34.717	2	1.160	0.912	27.824	-9	0.0	2	31.4	2	2.21	2	115.2	2	0.025	2	-0.002	2	199.40	2	1062	2	2261.3	2	-9	9	2358	2	-9	-9	-9	-9	-9
103	2	3800.7	34.710	2	34.710	2	0.846	0.566	27.840	-9	0.0	2	31.9	2	2.26	2	126.5	2	0.024	2	0.010	2	204.12	2	1061	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4199.7	34.706	2	34.707	2	0.667	0.351	27.850	-9	0.0	2	31.7	2	2.30	2	128.3	2	0.045	2	0.021	2	208.55	2	1053	2	2264.2	2	-9	9	2363	2	-9	-9	-9	-9	-9
101	2	4606.3	34.705	2	-9	9	0.647	0.287	27.853	-9	0.0	2	32.7	2	2.35	2	131.6	2	0.039	2	0.018	2	212.21	2	1063	2	2271.9	2	-9	9	2411	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 33 DATE 3/8/94 LATITUDE 54°30.1'S Btm Depth: 4086
CAST 2 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
236	2	13.6	34.255	2	34.255	2	7.911	7.910	26.702	0.102	0.2	2	15.0	2	1.17	2	5.4	2	4.276	2	2.096	2	286.30	2	568	2	2092.1	2	7.8392	2	2277	2	1.80	38.2	-9	0.162	0.078
235	2	24.5	34.255	2	34.256	2	7.910	7.907	26.703	0.101	0.2	6	15.0	6	1.15	6	5.6	6	4.263	2	2.050	2	286.39	2	569	2	2091.2	2	7.8390	2	2275	2	1.90	40.6	-9	0.172	0.068
234	2	49.1	34.256	2	34.257	2	7.908	7.903	26.704	0.102	0.2	2	15.1	2	1.17	2	5.8	2	4.263	2	2.095	2	286.44	2	528	4	2091.6	2	7.8388	2	-9	5	1.70	43.3	-9	0.178	0.062
233	2	69.6	34.255	2	34.256	2	7.895	7.888	26.706	0.099	0.2	2	15.3	2	1.16	2	5.9	2	4.323	2	2.063	2	285.99	2	547	3	2090.9	2	7.8391	2	2274	2	1.80	43.9	-9	0.180	0.060
232	3	100.8	34.255	2	-9	5	7.871	7.862	26.709	0.098	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
231	2	125.0	34.286	2	34.289	2	6.738	6.727	26.893	0.056	0.5	2	17.2	2	1.30	2	9.1	2	4.420	2	2.160	2	284.51	2	640	2	2109.4	2	7.7958	2	2276	2	1.50	38.5	4.4	0.165	0.111
230	2	148.4	34.298	2	34.298	2	6.353	6.340	26.954	0.038	0.3	2	18.7	2	1.35	2	10.3	2	4.400	2	2.120	2	281.77	6	668	2	2116.0	2	7.7802	2	2280	2	1.50	-9	-9	0.123	0.076
229	2	198.3	34.315	2	34.315	2	6.271	6.254	26.979	0.020	0.0	2	19.1	2	1.38	2	10.1	2	4.282	6	2.065	6	281.46	2	672	2	2116.6	2	7.7770	2	2280	2	1.50	-9	-9	0.020	0.026
228	2	249.2	34.310	2	34.311	2	6.125	6.103	26.994	0.020	0.0	2	19.7	2	1.42	2	10.9	2	4.138	2	2.007	2	280.11	2	678	2	2119.9	2	7.7729	2	2280	2	1.50	-9	-9	-9	-9
227	2	300.5	34.304	2	34.304	2	6.003	5.977	27.006	0.014	0.0	2	19.7	2	1.44	2	11.4	2	4.111	2	1.962	2	280.27	2	684	2	2120.2	2	7.7699	2	2281	2	1.40	36.3	3.6	-9	-9
226	2	351.3	34.302	2	34.302	2	5.931	5.901	27.014	0.016	0.0	2	19.9	2	1.44	2	11.8	2	4.092	6	1.964	2	280.50	2	684	2	2121.4	2	7.7699	2	-9	5	1.40	-9	-9	-9	-9
225	2	401.0	34.295	2	34.295	2	5.842	5.808	27.020	0.014	0.0	2	20.6	2	1.46	2	12.0	2	4.050	2	1.964	2	279.34	2	698	2	2122.7	2	7.7645	2	2281	2	1.40	34.2	-9	-9	-9
224	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
223	2	501.0	34.266	2	34.266	2	5.532	5.490	27.036	0.009	0.0	2	21.5	2	1.54	2	13.1	2	3.949	6	1.891	6	277.31	2	713	2	2126.8	2	7.7558	2	2281	2	1.40	-9	-9	-9	-9
222	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
221	2	601.0	34.240	2	34.239	2	5.200	5.151	27.056	0.007	0.0	6	23.1	6	1.62	6	15.2	6	3.709	2	1.709	2	269.33	2	776	2	2135.0	2	7.7368	2	2286	2	1.40	34.5	3.0	-9	-9
220	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
219	2	700.0	34.237	2	34.236	2	4.846	4.791	27.094	0.013	0.0	2	25.8	2	1.81	2	20.3	2	2.849	2	1.323	2	247.23	6	852	2	2152.7	2	7.7003	2	2285	2	1.20	-9	-9	-9	-9
218	2	796.6	34.271	2	34.270	2	4.553	4.491	27.154	0.011	0.0	2	29.0	2	1.91	2	26.2	2	2.064	6	0.933	6	226.09	2	911	2	2171.1	2	7.6639	2	2291	2	1.10	37.1	-9	-9	-9
217	2	903.9	34.290	2	34.290	2	4.131	4.063	27.215	0.012	0.0	2	29.3	2	2.07	2	32.8	2	1.658	2	0.755	2	216.90	2	964	2	2184.0	2	7.6411	2	2295	2	1.00	-9	-9	-9	-9
216	2	1003.2	34.316	2	34.315	2	3.705	3.632	27.279	0.012	0.0	2	30.3	2	2.18	2	40.1	2	1.287	3	0.550	3	208.38	2	1017	2	2197.9	2	7.6219	2	2302	2	0.90	37.4	2.7	-9	-9
215	2	1201.1	34.380	2	34.380	2	3.081	2.997	27.390	0.011	0.0	2	32.0	2	2.31	2	53.7	2	0.674	2	0.290	2	192.62	2	1106	2	2220.3	2	7.5911	2	2308	2	0.70	-9	-9	-9	-9
214	2	1400.5	34.462	2	34.462	2	2.728	2.631	27.488	0.011	0.0	6	32.8	6	2.37	6	66.5	6	0.473	2	0.222	2	180.63	2	1163	2	2238.7	2	7.5727	2	2325	2	0.50	-9	-9	-9	-9
213	2	1598.3	34.544	2	34.543	2	2.517	2.407	27.573	0.010	0.0	2	32.8	2	2.33	2	75.6	2	0.290	2	0.127	2	172.75	2	1182	2	2249.1	2	7.5653	2	2330	2	0.50	-9	-9	-9	-9
212	2	1799.0	34.610	2	34.610	2	2.378	2.253	27.639	0.008	0.0	2	32.4	2	2.33	2	83.9	2	0.134	6	0.060	6	170.09	2	1180	2	2256.5	2	7.5703	2	2342	2	0.40	-9	-9	-9	-9
211	2	2002.1	34.659	2	34.658	2	2.250	2.110	27.690	0.007	0.0	2	31.7	2	2.30	2	88.1	2	1.093	4	0.034	2	172.99	2	1158	2	2257.7	3	7.5783	2	2348	2	0.40	34.1	-9	-9	-9
210	2	2249.7	34.691	2	34.690	2	2.107	1.947	27.729	0.007	0.0	2	31.3	2	2.27	2	93.0	2	0.036	2	0.011	2	174.12	2	1131	2	2262.3	2	7.5876	2	2351	2	0.40	-9	-9	-9	-9
209	2	2498.9	34.707	2	34.706	2	1.886	1.707	27.759	0.006	0.0	2	31.3	2	2.28	2	102.1	2	-9	1	-9	1	176.75	2	1116	2	2268.1	2	7.5940	2	2366	2	0.40	-9	-9	-9	-9
208	2	2748.4	34.711	2	34.711	2	1.715	1.517	27.777	0.005	0.0	2	31.6	2	2.22	2	109.2	2	0.008	2	0.001	2	179.64	2	1096	2	2272.0	2	7.6002	2	2370	6	0.40	45.5	2.5	-9	-9
207	2	2999.4	34.716	2	34.715	2	1.601	1.382	27.791	0.005	0.0	2	31.3	2	2.26	2	111.8	2	0.007	2	0.003	2	185.03	6	1089	2	2269.2	2	7.6039	2	-9	5	0.40	-9	-9	-9	-9
206	2	3247.3	34.721	2	34.720	2	1.501	1.260	27.803	0.005	0.0	2	30.7	2	2.22	2	109.7	2	0.017	6	0.005	6	190.51	2	1075	2	2264.4	2	7.6063	2	2359	2	0.40	-9	-9	-9	-9
205	2	3496.9	34.717	2	34.716	2	1.316	1.054	27.814	0.005	0.0	2	30.9	2	2.28	2	115.8	2	0.015	2	0.004	2	193.66	2	1074	2	2268.8	2	7.6097	2	2369	2	0.40	-9	-9	-9	-9
204	2	3750.1	34.713	2	34.712	2	1.064	0.783	27.829	0.003	0.0	2	31.1	2	2.28	2	124.2	2	0.003	2	0.004	2	199.65	2	1065	2	2268.4	2	7.6098	2	2370	2	0.40	-9	-9	-9	-9
203	2	3998.9	34.710	2	34.708	2	0.860	0.559	27.840	0.004	0.0	2	31.3	2	2.25	2	131.3	2	0.032	6	0.013	6	203.51	2	1065	2	2267.8	2	7.6129	2	2371	2	0.40	37.1	-9	-9	-9
202	2	4149.9	34.709	2	34.707	2	0.813	0.497	27.843	0.005	0.0	6	31.2	6	2.29	6	132.8	6	0.017	2	0.012	2	204.33	2	1048	2	2266.4	2	7.6124	2	-9	5	0.40	42.4	-9	-9	-9
201	2	4149.8	34.709	2	34.707	2	0.812	0.497	27.843	0.005	0.0	2	31.6	2	2.24	2	133.4	2	0.014	2	0.012	6	204.40	2	1054	2	2272.7	3	7.6140	2	2372	2	0.30	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 34 DATE 3/8/94 LATITUDE 53°50.0'S Btm Depth: 4229
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	12.5	34.254	2	34.256	2	7.824	7.823	26.714	0.088	0.2	2	15.6	2	1.22	2	2.3	2	-9	9	-9	9	287.46	2	574	2	2093.3	2	7.8346	2	2276	2	1.70	-9	-9	-9	-9
135	2	23.5	34.253	2	34.253	2	7.813	7.810	26.715	0.089	0.2	2	15.3	2	0.58	4	2.3	2	4.317	2	2.073	2	286.90	2	574	2	2097.0	3	7.8358	2	-9	5	-9	-9	-9	-9	-9
134	2	50.9	34.253	2	34.253	2	7.792	7.788	26.718	0.087	0.2	2	15.3	2	1.21	2	2.2	2	-9	9	-9	9	286.79	2	575	2	2092.7	2	7.8345	2	2279	2	-9	-9	-9	-9	-9
133	2	75.0	34.252	2	34.253	2	7.790	7.782	26.719	0.084	0.2	2	15.5	2	1.23	2	2.2	2	-9	9	-9	9	286.88	2	575	2	-9	9	7.8353	2	-9	9	-9	-9	-9	-9	-9
132	2	98.9	34.276	2	34.278	2	7.107	7.098	26.835	0.083	0.4	2	16.7	2	1.31	2	4.1	2	4.379	2	2.115	2	285.43	2	615	2	2106.1	2	7.8091	2	2286	2	-9	-9	-9	-9	-9
131	2	125.9	34.300	2	34.300	2	6.362	6.351	26.954	0.044	0.6	2	18.2	2	1.42	2	6.7	2	-9	9	-9	9	284.43	2	662	2	-9	9	7.7822	2	-9	9	-9	-9	-9	-9	-9
130	2	148.3	34.301	2	34.302	2	6.295	6.282	26.964	0.026	0.4	2	19.0	2	1.44	2	6.9	2	-9	9	-9	9	283.45	2	666	2	-9	9	7.7793	2	-9	9	-9	-9	-9	-9	-9
129	2	201.7	34.304	2	34.305	2	6.160	6.143	26.984	0.016	0.0	2	19.5	2	1.45	2	6.8	2	-9	9	-9	9	282.16	2	672	2	2119.2	2	7.7753	2	2276	2	-9	-9	-9	-9	-9
128	2	249.0	34.308	2	34.308	2	6.089	6.067	26.997	0.014	0.0	2	19.8	2	1.47	2	7.2	2	-9	9	-9	9	283.03	2	675	2	-9	9	7.7741	2	-9	9	-9	-9	-9	-9	-9
127	2	300.1	34.305	2	34.306	2	5.992	5.966	27.008	0.014	0.0	2	19.9	2	1.48	2	7.5	2	4.174	2	2.023	2	282.21	2	678	2	2122.1	2	7.7724	2	2276	2	-9	-9	-9	-9	-9
126	2	351.0	34.302	2	34.302	2	5.926	5.896	27.014	0.012	0.0	2	20.0	2	1.46	2	7.8	2	-9	9	-9	9	281.54	2	682	2	-9	9	7.7702	2	-9	9	-9	-9	-9	-9	-9
125	2	398.6	34.291	2	34.292	2	5.803	5.769	27.021	0.011	0.0	2	20.6	2	1.51	2	8.2	2	-9	9	-9	9	281.40	2	690	2	2124.5	2	7.7659	2	2278	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.2	34.282	2	34.283	2	5.652	5.610	27.034	0.008	0.0	2	20.4	2	1.50	2	8.0	2	13.013	4	2.024	4	285.46	2	686	2	2123.2	2	7.7693	2	2276	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.8	34.244	2	34.243	2	5.254	5.205	27.052	0.010	0.0	2	21.6	2	1.59	2	9.1	2	-9	9	-9	9	282.87	2	706	2	2126.0	2	7.7565	2	2273	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.3	34.217	2	34.218	2	4.925	4.869	27.070	0.009	0.0	2	23.3	2	1.70	2	11.6	2	3.791	2	1.853	2	272.91	2	741	2	2136.1	2	7.7371	2	2282	2	-9	-9	-9	-9	-9
118	2	787.6	34.231	2	34.230	2	4.676	4.614	27.109	0.012	0.0	2	26.3	2	1.85	2	18.3	2	2.835	2	1.319	2	245.36	2	830	2	2156.7	2	7.6930	2	2283	2	-9	-9	-9	-9	-9
117	2	899.5	34.283	2	34.300	4	4.316	4.247	27.190	0.014	0.0	2	29.0	2	2.11	2	27.7	2	-9	9	-9	9	219.82	2	931	2	2180.3	2	7.6506	2	2291	2	-9	-9	-9	-9	-9
116	2	993.8	34.300	2	34.330	4	3.947	3.872	27.242	0.013	0.0	2	30.4	2	2.18	2	33.4	2	1.358	2	0.632	2	213.25	2	973	2	2190.8	2	7.6316	2	2292	2	-9	-9	-9	-9	-9
115	2	1098.8	34.330	2	34.329	2	3.498	3.419	27.311	0.012	0.0	2	31.5	2	2.24	2	42.0	2	-9	9	-9	9	204.12	2	1038	2	-9	9	7.6117	2	-9	9	-9	-9	-9	-9	-9
114	2	1200.1	34.360	2	34.360	2	3.194	3.109	27.364	0.011	0.0	2	32.4	2	2.31	2	48.9	2	-9	9	-9	9	197.35	2	1069	2	-9	9	7.5982	2	-9	9	-9	-9	-9	-9	-9
113	2	1399.0	34.453	2	34.453	2	2.761	2.664	27.478	0.011	0.0	2	33.2	2	2.44	2	62.6	2	0.490	2	0.226	2	181.43	2	1152	2	-9	9	7.5734	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.5	34.537	2	34.534	2	2.553	2.443	27.564	0.010	0.0	2	33.3	2	2.45	2	71.2	2	-9	9	-9	9	171.86	2	1173	2	-9	9	7.5669	2	-9	9	-9	-9	-9	-9	-9
111	2	1800.2	34.600	2	34.599	2	2.416	2.290	27.628	0.009	0.0	2	33.0	2	2.45	2	79.0	2	0.112	2	0.047	2	169.42	2	1174	2	-9	9	7.5694	2	-9	9	-9	-9	-9	-9	-9
110	2	1997.8	34.647	2	34.645	2	2.295	2.154	27.677	0.009	0.0	2	32.8	2	2.32	2	83.9	2	-9	9	-9	9	170.97	2	1157	2	-9	9	7.5764	2	-9	9	-9	-9	-9	-9	-9
109	2	2247.2	34.689	2	34.687	2	2.131	1.971	27.725	0.009	0.0	2	31.9	2	2.34	2	91.2	2	-9	9	-9	9	174.59	6	-9	9	-9	9	7.5861	2	-9	9	-9	-9	-9	-9	-9
108	2	2496.3	34.708	2	34.707	2	1.944	1.765	27.756	0.007	0.0	2	31.5	2	2.31	2	95.7	2	0.020	2	0.006	2	177.97	2	1104	2	-9	9	7.5949	2	-9	9	-9	-9	-9	-9	-9
107	2	2749.4	34.711	2	34.710	2	1.737	1.538	27.776	0.007	0.0	2	32.8	2	2.32	2	102.3	2	-9	9	-9	9	180.58	6	-9	9	-9	9	7.5997	2	-9	9	-9	-9	-9	-9	-9
106	2	3001.8	34.717	2	34.715	2	1.598	1.379	27.792	0.005	0.0	2	31.5	2	2.21	2	105.5	2	0.012	2	0.003	2	185.51	2	1087	2	-9	9	7.6045	2	-9	9	-9	-9	-9	-9	-9
105	2	3245.9	34.719	2	34.717	2	1.505	1.264	27.802	0.004	0.0	2	31.2	2	2.23	2	108.4	2	0.009	2	0.004	2	190.48	2	-9	9	-9	9	7.6070	2	-9	9	-9	-9	-9	-9	-9
104	2	3498.9	34.718	2	34.716	2	1.325	1.063	27.814	0.005	0.0	2	31.4	2	2.27	2	112.8	2	0.008	2	0.003	2	194.59	2	1066	2	-9	9	7.6087	2	-9	9	-9	-9	-9	-9	-9
103	2	3748.3	34.714	2	34.712	2	1.068	0.787	27.829	0.003	0.0	2	31.5	2	2.28	2	118.2	2	0.010	2	0.006	2	196.94	2	1064	2	-9	9	7.6108	2	-9	9	-9	-9	-9	-9	-9
102	2	3996.7	34.709	2	34.708	2	0.817	0.518	27.842	0.004	0.0	2	31.9	2	1.99	4	126.3	2	0.159	4	0.003	2	204.52	2	1055	2	-9	9	7.6122	2	-9	9	-9	-9	-9	-9	-9
101	2	4276.0	34.708	2	34.711	2	0.739	0.412	27.847	0.005	0.0	2	32.0	2	2.29	2	130.7	2	0.003	2	0.004	2	206.03	2	1058	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 35 DATE 3/9/94 LATITUDE 53°10.0'S Btm Depth: 4175
CAST 1 LONGITUDE 103°3.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.2	34.243	2	34.244	2	8.033	8.032	26.675	0.110	0.2	2	14.9	2	1.19	2	2.2	2	4.299	2	2.034	2	286.55	2	570	2	-9	1	7.8386	2	2272	2	1.60	-9	-9	-9	-9
135	2	24.1	34.243	2	34.243	2	8.032	8.029	26.675	0.111	0.2	2	14.8	2	1.14	2	2.1	2	4.397	2	2.022	2	285.91	2	-9	9	-9	9	7.8385	2	-9	9	-9	-9	-9	-9	-9
134	2	50.2	34.243	2	34.244	2	8.028	8.023	26.676	0.108	0.2	2	14.9	2	1.16	2	2.0	2	4.120	2	2.048	2	286.02	2	573	2	-9	9	7.8384	2	-9	9	-9	-9	-9	-9	-9
133	2	73.8	34.243	2	34.244	2	8.027	8.020	26.676	0.107	0.2	2	14.9	2	1.18	2	2.0	2	4.288	2	2.068	2	285.90	2	-9	9	-9	9	7.8388	2	-9	9	-9	-9	-9	-9	-9
132	2	101.3	34.256	2	34.258	2	7.588	7.579	26.751	0.088	0.2	2	15.4	2	1.23	2	2.9	2	4.395	2	2.086	2	285.85	2	599	2	-9	9	7.8244	2	-9	9	-9	-9	-9	-9	-9
131	2	125.2	34.295	2	34.296	2	6.493	6.482	26.933	0.043	0.3	2	18.1	2	1.38	2	5.9	2	4.395	2	2.084	2	281.85	2	-9	9	-9	9	7.7811	2	-9	9	-9	-9	-9	-9	-9
130	2	151.1	34.287	2	34.287	2	6.223	6.210	26.963	0.027	0.0	2	19.3	2	1.37	2	6.7	2	4.293	2	2.060	2	280.84	2	673	2	-9	9	7.7758	2	-9	9	-9	-9	-9	-9	-9
129	2	203.2	34.289	2	34.291	2	6.094	6.077	26.981	0.015	0.0	2	19.6	2	1.44	2	7.1	2	4.151	2	1.953	4	280.04	2	678	2	-9	9	7.7714	2	-9	9	-9	-9	-9	-9	-9
128	2	251.9	34.289	2	34.290	2	6.024	6.002	26.991	0.014	0.0	2	19.7	2	1.46	2	7.5	2	4.107	2	1.934	2	278.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	299.4	34.288	2	34.292	2	5.958	5.932	26.999	0.010	0.0	2	20.1	2	1.48	2	7.5	2	4.021	2	1.897	2	278.53	2	686	2	-9	9	7.7668	2	-9	9	-9	-9	-9	-9	-9
126	2	348.5	34.290	2	34.290	2	5.916	5.887	27.006	0.007	0.0	2	20.0	2	1.50	2	7.8	2	4.011	2	1.898	2	278.63	2	-9	9	-9	9	7.7665	2	-9	9	-9	-9	-9	-9	-9
125	2	398.4	34.286	2	34.286	2	5.828	5.794	27.014	0.013	0.0	2	20.8	2	1.46	2	8.2	2	4.012	2	1.753	2	277.79	2	698	2	-9	9	7.7622	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.1	34.271	2	34.270	2	5.600	5.558	27.031	0.006	0.0	2	21.9	2	1.58	2	9.8	2	3.674	2	1.720	2	270.72	6	721	6	-9	9	7.7489	2	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	596.9	34.246	2	34.246	2	5.205	5.156	27.060	0.010	0.0	2	23.5	2	1.69	2	12.3	2	4.890	4	1.702	2	263.19	2	755	2	-9	9	7.7302	2	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	701.0	34.246	2	34.246	2	4.884	4.828	27.097	0.012	0.0	2	25.6	2	1.83	2	16.6	2	2.717	6	1.227	6	246.58	2	832	2	-9	9	7.6993	2	-9	9	-9	-9	-9	-9	-9
118	2	801.9	34.268	2	34.268	2	4.563	4.500	27.151	0.009	0.0	2	27.9	2	1.94	2	22.9	2	2.033	3	0.856	3	228.87	2	888	2	-9	9	7.6684	2	-9	9	-9	-9	-9	-9	-9
117	2	901.1	34.287	2	34.286	2	4.113	4.045	27.214	0.012	0.0	2	29.4	2	2.10	2	30.0	2	1.478	2	0.678	2	217.56	2	965	2	-9	9	7.6413	2	-9	9	-9	-9	-9	-9	-9
116	2	993.9	34.304	2	34.304	2	3.744	3.671	27.265	0.012	0.0	2	30.3	2	2.18	2	35.1	2	1.256	2	0.559	2	211.38	2	994	2	2196.7	2	7.6257	2	2297	6	-9	-9	-9	-9	-9
115	2	1197.3	34.382	2	34.381	2	3.031	2.947	27.397	0.010	0.0	2	32.7	2	2.30	2	53.5	2	0.740	2	0.325	2	192.85	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1400.8	34.475	2	34.474	2	2.724	2.628	27.499	0.010	0.0	2	33.6	2	2.36	2	66.1	2	0.301	2	0.139	2	175.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1604.3	34.554	2	34.554	2	2.515	2.405	27.582	0.010	0.0	2	33.5	2	2.37	2	75.0	2	-0.010	4	-0.002	4	169.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1802.5	34.618	2	34.614	3	2.367	2.242	27.646	0.009	0.0	2	33.0	2	2.33	2	83.1	2	0.078	2	0.031	2	168.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2003.2	34.662	2	34.661	2	2.236	2.096	27.693	0.008	0.0	2	32.7	2	2.25	2	89.8	2	0.040	2	0.019	2	170.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2249.4	34.693	2	34.692	2	2.067	1.907	27.733	0.006	0.0	2	32.2	2	2.25	2	96.5	2	-9	1	-9	1	173.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2497.8	34.704	2	34.704	2	1.891	1.712	27.757	0.006	0.0	2	32.2	2	2.26	2	101.6	2	0.009	2	0.002	2	175.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2751.0	34.707	2	34.706	2	1.711	1.513	27.774	0.005	0.0	2	32.2	2	2.27	2	108.3	2	0.027	4	0.001	2	177.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3000.2	34.714	2	34.713	2	1.612	1.393	27.788	0.004	0.0	2	31.9	2	2.20	2	110.2	2	-0.001	2	-0.001	2	183.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3250.7	34.718	2	34.716	2	1.463	1.222	27.804	0.003	0.0	2	31.8	2	2.21	2	113.1	2	0.005	2	0.003	2	189.68	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3500.3	34.716	2	34.715	2	1.291	1.030	27.815	0.003	0.0	2	31.6	2	2.20	2	115.2	2	0.008	2	0.000	2	194.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3750.3	34.712	2	34.710	2	1.014	0.735	27.831	0.003	0.0	2	31.7	2	2.24	2	122.9	2	0.100	4	0.064	4	199.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3999.3	34.709	2	34.707	2	0.790	0.491	27.843	0.004	0.0	2	31.8	2	2.25	2	130.9	2	0.059	4	0.002	2	204.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3998.4	34.709	2	34.707	2	0.791	0.492	27.843	0.004	0.0	2	31.9	2	2.19	2	132.9	2	0.015	2	0.005	2	204.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4165.3	34.707	2	34.706	2	0.727	0.413	27.847	0.005	0.0	2	31.9	2	2.25	2	135.8	2	-0.009	2	0.006	2	205.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 36 DATE 3/9/94 LATITUDE 52°30.2'S Btm Depth: 4412
CAST 1 LONGITUDE 103°0.6'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	13.0	34.251	2	34.251	2	8.049	8.048	26.679	0.111	0.2	2	14.6	2	1.13	2	1.5	2	-9	9	-9	9	286.48	2	559	2	2089.4	2	7.8412	2	2276	2	-9	37.6	-9	0.148	0.058
135	2	25.0	34.251	2	34.250	2	8.050	8.048	26.679	0.110	0.2	2	14.6	2	1.13	2	1.6	2	-9	9	-9	9	286.64	2	561	2	2089.1	2	7.8415	2	2276	2	-9	40.5	-9	0.150	0.063
134	2	45.4	34.251	2	34.250	2	8.052	8.047	26.679	0.110	0.2	2	14.6	2	1.12	2	1.5	2	-9	9	-9	9	286.00	2	565	2	2090.0	2	7.8426	2	2274	2	-9	36.8	-9	0.155	0.073
133	2	74.5	34.252	2	34.250	2	8.033	8.026	26.682	0.102	0.2	2	14.7	2	1.09	2	1.5	2	-9	9	-9	9	286.04	2	567	2	2090.2	2	7.8423	2	2274	2	-9	35.1	-9	0.155	0.073
132	2	99.1	34.257	2	34.258	2	7.951	7.941	26.699	0.072	0.2	2	14.8	2	1.14	2	1.7	2	-9	9	-9	9	285.95	2	570	2	2091.5	2	7.8375	2	2274	2	-9	41.7	4.9	0.145	0.071
131	2	125.4	34.307	2	34.307	2	6.706	6.695	26.915	0.050	0.6	2	17.4	2	1.32	2	5.1	2	-9	9	-9	9	282.45	2	644	2	2113.6	2	7.7892	2	2275	2	-9	-9	-9	0.158	0.096
130	2	151.5	34.324	2	34.322	2	6.508	6.494	26.954	0.021	0.1	2	18.3	2	1.34	2	5.1	2	-9	9	-9	9	279.95	2	662	2	2117.2	2	7.7809	2	2280	2	-9	-9	-9	0.075	0.049
129	2	201.1	34.323	2	34.321	2	6.375	6.358	26.972	0.017	0.0	2	19.3	2	1.31	2	6.3	2	-9	9	-9	9	279.03	2	668	2	2118.6	2	7.7768	2	2279	2	-9	40.4	-9	0.010	0.017
128	2	250.3	34.336	2	34.334	2	6.347	6.325	26.986	0.017	0.0	2	19.3	2	1.36	2	7.0	2	-9	9	-9	9	279.23	2	671	2	2117.8	2	7.7761	2	2278	2	-9	-9	-9	-9	-9
127	2	299.6	34.316	2	34.314	2	6.173	6.147	26.993	0.015	0.0	2	20.0	2	1.41	2	7.4	2	-9	9	-9	9	277.60	2	683	2	2122.1	2	7.7708	2	2272	2	-9	35.7	3.7	-9	-9
126	2	347.1	34.292	2	34.290	2	5.954	5.924	27.008	0.010	0.0	2	21.2	2	1.50	2	8.6	2	-9	9	-9	9	271.15	2	707	2	2127.2	2	7.7568	2	-9	5	-9	-9	-9	-9	-9
125	2	398.5	34.289	2	34.289	2	5.871	5.837	27.011	0.015	0.0	2	21.5	2	1.46	2	8.9	2	-9	9	-9	9	271.61	2	709	2	2127.7	2	7.7564	2	2278	2	-9	34.2	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	500.3	34.278	2	34.278	2	5.673	5.631	27.028	0.014	0.0	2	21.4	2	1.48	2	9.0	2	-9	9	-9	9	277.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.4	34.245	2	34.245	2	5.243	5.194	27.054	0.012	0.0	2	23.5	2	1.63	2	12.1	2	-9	9	-9	9	263.08	2	761	2	2135.9	2	7.7322	2	2278	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	698.7	34.254	2	34.254	2	4.954	4.898	27.095	0.010	0.0	2	26.0	2	1.80	2	17.5	2	-9	9	-9	9	242.16	2	826	2	2154.6	2	7.6968	2	2284	2	-9	35.3	-9	-9	-9
118	2	799.4	34.280	2	34.280	2	4.616	4.553	27.155	0.011	0.0	2	28.3	2	1.92	2	24.5	2	-9	9	-9	9	223.73	2	898	2	2173.8	2	7.6630	2	2288	2	-9	34.5	3.7	-9	-9
117	2	900.2	34.294	2	34.294	2	4.121	4.053	27.219	0.011	0.0	2	31.2	2	2.05	2	31.3	2	-9	9	-9	9	215.39	2	966	2	2187.2	2	7.6390	2	2302	2	-9	-9	-9	-9	-9
116	2	994.2	34.315	2	34.315	2	3.711	3.638	27.278	0.013	0.0	2	31.3	2	2.15	2	37.6	2	-9	9	-9	9	208.15	2	1008	2	2198.8	2	7.6213	2	2300	2	-9	35.3	2.2	-9	-9
115	2	1203.6	34.386	2	34.384	2	3.052	2.969	27.397	0.012	0.0	2	33.0	2	2.27	2	52.5	2	-9	9	-9	9	192.60	2	-9	9	-9	9	7.5895	2	-9	9	-9	-9	-9	-9	-9
114	2	1400.0	34.474	2	34.472	2	2.712	2.615	27.499	0.011	0.0	2	33.8	2	2.31	2	66.1	2	-9	9	-9	9	179.01	6	-9	9	-9	9	7.5720	2	-9	9	-9	-9	-9	-9	-9
113	2	1601.3	34.554	2	34.554	2	2.505	2.395	27.582	0.010	0.0	2	33.5	2	2.31	2	75.4	2	-9	9	-9	9	172.23	2	-9	9	-9	9	7.5669	2	-9	9	-9	-9	-9	-9	-9
112	2	1800.7	34.617	2	34.617	2	2.368	2.243	27.646	0.009	0.0	2	33.5	2	2.30	2	80.9	2	-9	9	-9	9	169.65	6	-9	9	-9	9	7.5716	2	-9	9	-9	-9	-9	-9	-9
111	2	2000.6	34.663	2	34.662	2	2.229	2.089	27.695	0.008	0.0	2	34.2	2	2.28	2	88.4	2	0.495	4	0.037	2	170.28	2	-9	9	-9	9	7.5797	2	-9	9	-9	39.4	-9	-9	-9
110	2	2238.8	34.694	2	34.693	2	2.085	1.926	27.733	0.008	0.0	2	32.4	2	2.19	2	93.8	2	-9	9	-9	9	174.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2498.7	34.705	2	-9	5	1.870	1.692	27.760	0.007	0.0	2	33.2	2	2.30	2	106.9	2	0.019	2	0.003	2	175.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2751.3	34.708	2	34.706	2	1.699	1.501	27.776	0.005	0.0	2	32.6	2	2.25	2	108.1	2	-9	9	-9	9	178.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3000.0	34.713	2	34.711	2	1.607	1.387	27.788	0.005	0.0	2	32.4	2	2.24	2	108.6	2	0.005	6	-0.001	6	183.27	2	-9	9	-9	9	-9	9	-9	9	-9	40.9	1.6	-9	-9
106	2	3250.8	34.718	2	34.716	2	1.493	1.252	27.801	0.004	0.0	2	32.0	2	2.22	2	110.1	2	-9	9	-9	9	188.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3499.5	34.717	2	34.714	2	1.273	1.012	27.817	0.004	0.0	2	32.0	2	2.18	2	117.6	2	0.001	2	0.000	2	194.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3749.8	34.713	2	34.711	2	1.031	0.751	27.831	0.003	0.0	2	32.0	2	2.20	2	124.0	2	0.026	2	0.003	2	199.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4002.3	34.709	2	-9	5	0.849	0.548	27.841	0.003	0.0	2	33.1	2	2.28	2	131.2	2	-0.004	2	0.000	2	202.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4250.9	34.708	2	34.706	2	0.744	0.419	27.847	0.003	0.0	2	32.4	2	2.22	2	131.2	2	-0.004	2	0.001	2	205.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4501.2	34.707	2	34.706	2	0.727	0.375	27.849	0.003	0.0	2	32.5	2	2.22	2	134.3	2	0.000	6	0.001	6	206.64	2	-9	9	-9	9	-9	9	-9	9	-9	37.6	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 37 DATE 3/9/94 LATITUDE 51°50.0'S Btm Depth: 4000
CAST 2 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
236	2	10.8	34.255	2	34.255	2	8.551	8.550	26.605	0.100	0.2	2	15.0	2	1.23	2	1.5	2	4.170	2	2.015	2	284.63	2	556	2	2089.1	2	7.8465	2	-9	5	1.80	-9	-9	-9	-9
235	2	24.9	34.255	2	34.255	2	8.520	8.517	26.610	0.100	0.2	2	14.9	2	1.23	2	1.4	2	4.321	2	2.237	2	284.32	2	556	2	2088.3	2	7.8461	2	-9	5	1.80	-9	-9	-9	-9
234	2	49.2	34.255	2	34.254	2	8.516	8.511	26.611	0.098	0.2	2	15.0	2	1.21	2	1.4	2	4.178	2	2.032	2	284.10	2	557	2	2089.5	2	7.8461	2	2275	2	1.80	-9	-9	-9	-9
233	2	73.6	34.254	2	34.254	2	8.455	8.448	26.620	0.088	0.2	2	15.2	2	1.19	2	1.3	2	4.202	2	1.930	2	284.06	2	-9	9	2089.2	2	7.8453	2	2273	2	1.80	-9	-9	-9	-9
232	2	98.8	34.298	2	34.296	2	7.348	7.339	26.819	0.074	0.3	2	16.0	2	1.31	2	2.4	2	4.385	2	2.125	2	286.93	2	597	2	2100.6	2	7.8212	2	2278	2	1.70	-9	-9	-9	-9
231	2	123.1	34.305	2	34.304	2	6.653	6.642	26.920	0.046	0.3	2	18.7	2	1.46	2	5.2	2	4.402	2	2.087	2	280.24	2	-9	9	2115.6	2	7.7849	2	2277	2	-9	-9	-9	-9	-9
230	2	148.4	34.303	2	34.303	2	6.445	6.432	26.946	0.036	0.0	2	19.4	2	1.47	2	5.6	2	4.288	2	2.048	2	279.55	2	-9	9	2119.1	2	7.7782	2	2278	2	1.50	-9	-9	-9	-9
229	2	198.3	34.312	2	34.312	2	6.349	6.331	26.966	0.021	0.0	2	19.9	2	1.45	2	6.2	2	4.173	2	1.967	2	278.07	2	673	2	2119.1	2	7.7759	2	2281	2	1.50	-9	-9	-9	-9
228	3	248.2	34.316	2	34.317	2	6.298	6.276	26.977	0.017	0.0	2	19.8	2	1.49	2	6.7	2	4.094	2	1.953	2	276.92	2	-9	9	2119.5	2	7.7741	2	2276	2	-9	-9	-9	-9	-9
227	2	299.1	34.310	2	34.310	2	6.184	6.158	26.988	0.021	0.0	2	20.7	2	1.54	2	7.2	2	3.971	2	1.889	2	277.01	2	680	2	2122.4	2	7.7702	2	2279	2	1.50	-9	-9	-9	-9
226	2	349.9	34.315	2	34.315	2	6.142	6.112	26.997	0.013	0.0	2	20.7	2	1.55	2	7.3	2	-9	1	-9	1	278.33	2	-9	9	2121.7	2	7.7701	2	-9	5	-9	-9	-9	-9	-9
225	2	400.6	34.309	2	34.309	2	6.040	6.005	27.006	0.014	0.0	2	20.8	2	1.57	2	7.6	2	4.111	6	1.877	6	278.15	2	687	2	2126.1	2	7.7673	2	2280	2	1.50	-9	-9	-9	-9
224	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
223	2	499.3	34.305	2	34.306	2	5.942	5.898	27.017	0.010	0.0	2	20.7	2	1.56	2	7.6	2	-9	1	-9	1	280.30	2	685	2	2125.6	2	7.7697	2	-9	5	1.50	-9	-9	-9	-9
222	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
221	2	599.8	34.261	2	34.261	2	5.516	5.466	27.034	0.010	0.0	2	22.6	2	1.64	2	9.5	2	3.833	2	1.820	2	274.03	2	722	2	2132.9	2	7.7518	2	2280	2	1.40	-9	-9	-9	-9
220	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
219	2	701.2	34.237	2	34.238	2	5.080	5.023	27.068	0.010	0.0	2	25.4	2	1.85	2	14.1	2	3.137	2	1.461	2	255.21	2	788	2	2149.8	2	7.7163	2	2282	2	1.40	-9	-9	-9	-9
218	2	798.4	34.271	2	34.271	2	4.842	4.778	27.123	0.013	0.0	2	28.2	2	2.05	2	20.1	2	2.136	2	0.956	2	231.22	2	876	2	2168.2	2	7.6779	2	2289	2	1.10	-9	-9	-9	-9
217	2	900.0	34.295	2	34.295	2	4.427	4.357	27.188	0.013	0.0	2	29.8	2	2.20	2	27.1	2	1.519	2	0.676	2	216.59	2	943	2	2184.5	2	7.6490	2	2288	2	1.00	-9	-9	-9	-9
216	2	1000.6	34.309	2	34.309	2	3.925	3.850	27.252	0.012	0.0	2	30.2	2	2.19	2	33.8	2	1.248	2	0.564	2	210.98	2	995	2	2194.6	2	7.6298	2	2298	2	0.90	-9	-9	-9	-9
215	2	1200.4	34.362	2	34.361	2	3.252	3.166	27.360	0.012	0.0	2	32.9	2	2.30	2	46.8	2	0.867	2	0.400	2	197.68	2	1080	2	2214.3	2	7.6004	2	2313	2	0.80	-9	-9	-9	-9
214	2	1394.2	34.450	2	34.450	2	2.800	2.703	27.472	0.010	0.0	2	34.1	2	2.35	2	61.3	2	0.370	2	0.172	2	180.40	2	1158	2	2238.2	2	7.5735	2	2324	2	-9	-9	-9	-9	-9
213	2	1595.8	34.524	2	34.524	2	2.589	2.478	27.551	0.010	0.0	2	34.6	2	2.41	2	71.4	2	0.212	2	0.096	2	172.44	2	1184	2	2250.9	2	7.5661	2	2334	2	0.50	-9	-9	-9	-9
212	2	1796.1	34.596	2	34.595	2	2.419	2.294	27.624	0.010	0.0	2	33.8	2	2.37	2	76.3	2	0.144	2	0.065	2	170.17	2	1180	2	2262.3	2	7.5681	2	2342	2	-9	-9	-9	-9	-9
211	2	1997.8	34.652	2	34.652	2	2.281	2.140	27.682	0.009	0.0	2	33.1	2	2.33	2	81.7	2	0.079	2	0.036	2	171.50	2	1156	2	2259.9	2	7.5778	2	2350	2	0.40	-9	-9	-9	-9
210	2	2246.5	34.686	2	34.685	2	2.130	1.970	27.722	0.007	0.0	2	32.9	2	2.28	2	90.1	2	-9	9	-9	9	172.80	6	-9	9	2264.5	2	7.5858	2	2356	2	-9	-9	-9	-9	-9
209	2	2498.2	34.707	2	34.706	2	1.968	1.788	27.754	0.006	0.0	2	32.5	2	2.22	2	95.7	2	0.021	2	0.010	2	178.12	2	1111	2	2265.0	2	7.5938	2	2356	2	0.50	-9	-9	-9	-9
208	2	2746.3	34.710	2	34.709	2	1.734	1.536	27.775	0.005	0.0	2	32.6	2	2.27	2	104.2	2	-9	9	-9	9	179.84	6	-9	9	2273.1	2	7.5982	2	2367	2	-9	-9	-9	-9	-9
207	2	2999.4	34.713	2	34.712	2	1.616	1.397	27.788	0.005	0.0	2	32.6	2	2.27	2	105.3	2	0.003	2	0.002	2	183.72	2	1093	6	2271.7	2	7.6022	2	2366	2	0.40	-9	-9	-9	-9
206	2	3249.7	34.718	2	34.717	2	1.507	1.266	27.801	0.004	0.0	2	32.1	2	2.24	2	106.4	2	-9	9	-9	9	188.89	2	-9	9	2267.0	2	7.6059	2	2363	2	-9	-9	-9	-9	-9
205	2	3500.1	34.717	2	34.718	2	1.322	1.061	27.814	0.004	0.0	2	32.3	2	2.18	2	113.3	2	-9	9	-9	9	194.17	2	1075	2	2267.2	2	7.6092	2	2367	2	0.40	-9	-9	-9	-9
204	2	3750.7	34.712	2	34.710	2	1.050	0.770	27.829	0.003	0.0	2	32.6	2	2.25	2	121.3	2	0.012	2	0.003	2	199.09	6	-9	9	2269.5	2	7.6109	2	2369	2	-9	-9	-9	-9	-9
203	2	4000.6	34.709	2	34.707	2	0.845	0.545	27.841	0.003	0.0	2	32.9	2	2.29	2	125.2	2	0.008	2	0.000	2	202.90	2	1060	2	2272.3	2	7.6157	2	2377	2	-9	-9	-9	-9	-9
202	2	3999.2	34.709	2	34.708	2	0.847	0.546	27.841	0.003	0.0	2	32.6	2	2.27	2	126.2	2	-9	9	-9	9	202.92	2	1057	2	2272.6	2	7.6140	2	2374	2	0.40	-9	-9	-9	-9
201	2	4054.0	34.709	2	34.707	2	0.817	0.511	27.842	0.003	0.0	2	32.7	2	2.22	2	129.6	2	0.000	2	0.002	2	203.41	2	1056	2	2271.7	2	7.6154	2	2374	2	0.40	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
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STATION 38 DATE 3/10/94 LATITUDE 51°10.0'S Btm Depth: 3796
CAST 2 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
224	2	8.8	34.209	2	-9	5	9.240	9.239	26.460	-9	0.2	2	14.9	2	1.10	2	0.0	2	-9	9	-9	9	280.54	2	548	2	2082.4	2	-9	9	2275	2	-9	-9	-9	-9	-9
223	2	26.1	34.209	2	34.211	2	9.224	9.221	26.463	-9	0.2	2	14.5	2	1.12	2	0.0	2	-9	9	-9	9	280.46	2	548	2	2082.8	2	7.8513	2	2274	2	-9	-9	-9	-9	-9
222	2	49.3	34.209	2	-9	5	9.182	9.177	26.470	-9	0.2	2	15.3	2	1.15	2	0.0	2	-9	9	-9	9	280.39	2	555	2	2082.0	2	-9	9	2277	2	-9	-9	-9	-9	-9
221	2	98.9	34.258	2	34.259	2	7.259	7.250	26.800	-9	0.2	2	15.9	2	1.24	2	1.5	2	-9	9	-9	9	287.36	2	604	2	2098.3	2	7.8156	2	2277	2	-9	-9	-9	-9	-9
220	2	147.7	34.282	2	34.283	2	6.622	6.609	26.906	-9	0.2	2	18.4	2	1.28	2	3.7	2	-9	9	-9	9	280.29	2	657	2	2111.6	2	7.7865	2	2276	2	-9	-9	-9	-9	-9
219	2	200.7	34.296	2	-9	5	6.447	6.429	26.941	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	278.14	2	670	2	2115.2	2	-9	9	2277	2	-9	-9	-9	-9	-9
218	2	300.7	34.298	2	34.300	2	6.226	6.200	26.973	-9	0.0	2	21.3	2	1.49	2	6.4	2	-9	9	-9	9	268.37	2	704	2	2124.7	2	7.7595	2	2278	2	-9	-9	-9	-9	-9
217	2	401.4	34.296	2	34.297	2	6.029	5.995	26.997	-9	0.0	2	21.1	2	1.50	2	6.3	2	-9	9	-9	9	274.13	2	698	2	2123.0	2	7.7643	2	2279	2	-9	-9	-9	-9	-9
216	2	499.5	34.286	2	-9	5	5.821	5.778	27.016	-9	0.0	2	22.3	2	1.58	2	7.2	2	-9	9	-9	9	273.47	2	708	2	2127.2	2	-9	9	2276	2	-9	-9	-9	-9	-9
215	2	600.8	34.263	2	34.263	2	5.499	5.448	27.039	-9	0.0	2	23.4	2	1.58	2	9.1	2	-9	9	-9	9	266.00	2	738	2	2132.1	2	7.7441	2	2282	2	-9	-9	-9	-9	-9
214	2	701.2	34.246	2	34.247	2	5.096	5.039	27.073	-9	0.0	2	25.1	2	1.73	2	12.8	2	-9	9	-9	9	255.81	2	790	2	2144.3	2	7.7176	2	2283	2	-9	-9	-9	-9	-9
213	2	799.8	34.267	2	-9	5	4.791	4.727	27.125	-9	0.0	2	28.6	2	1.97	2	19.5	2	-9	9	-9	9	233.51	2	872	2	2165.2	2	-9	9	2287	2	-9	-9	-9	-9	-9
212	2	899.9	34.283	2	-9	5	4.310	4.241	27.191	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	219.76	2	945	2	-9	1	-9	9	2292	2	-9	-9	-9	-9	-9
211	2	1000.8	34.301	2	34.302	2	3.853	3.779	27.253	-9	0.0	2	31.2	2	2.19	2	32.5	2	-9	9	-9	9	212.05	2	995	2	2192.1	2	7.6286	2	2303	2	-9	-9	-9	-9	-9
210	2	1199.1	34.369	2	34.370	2	3.210	3.125	27.370	-9	0.0	2	33.1	2	2.28	2	47.3	2	-9	9	-9	9	193.35	2	1098	2	-9	9	7.5950	2	-9	9	-9	-9	-9	-9	-9
209	2	1401.3	34.459	2	34.458	2	2.806	2.709	27.480	-9	0.0	2	34.1	2	2.38	2	62.3	2	-9	9	-9	9	177.31	2	1162	2	-9	9	7.5711	2	-9	9	-9	-9	-9	-9	-9
208	2	1600.3	34.541	2	34.541	2	2.545	2.434	27.569	-9	0.0	2	34.3	2	2.41	2	71.3	2	-9	9	-9	9	170.78	2	1184	2	-9	9	7.5657	2	-9	9	-9	-9	-9	-9	-9
207	2	1900.1	34.636	2	34.635	2	2.316	2.184	27.665	-9	0.0	2	34.2	2	2.36	2	81.7	2	-9	9	-9	9	169.31	2	1170	2	-9	9	7.5743	2	-9	9	-9	-9	-9	-9	-9
206	2	2198.4	34.683	2	34.682	2	2.137	1.981	27.719	-9	0.0	2	33.1	2	2.33	2	90.6	2	-9	9	-9	9	172.21	2	1138	2	-9	9	7.5838	2	-9	9	-9	-9	-9	-9	-9
205	2	2599.1	34.705	2	34.705	2	1.846	1.660	27.761	-9	0.0	2	32.9	2	2.25	2	103.6	2	-9	9	-9	9	175.86	2	1116	2	-9	9	7.5940	2	-9	9	-9	-9	-9	-9	-9
204	2	2898.6	34.709	2	34.708	2	1.662	1.451	27.780	-9	0.0	2	32.9	2	2.30	2	109.4	2	-9	9	-9	9	180.40	2	1095	2	-9	9	7.5997	2	-9	9	-9	-9	-9	-9	-9
203	2	3193.1	34.716	2	34.715	2	1.535	1.299	27.796	-9	0.0	2	32.5	2	2.26	2	108.0	2	-9	9	-9	9	186.92	2	1080	2	-9	9	7.6049	2	-9	9	-9	-9	-9	-9	-9
202	2	3499.0	34.714	2	34.714	2	1.273	1.012	27.815	-9	0.0	2	32.7	2	2.29	2	115.3	2	-9	9	-9	9	193.75	2	1062	2	-9	9	7.6090	2	-9	9	-9	-9	-9	-9	-9
201	2	3824.8	34.709	2	34.708	2	0.827	0.545	27.840	-9	0.0	2	33.8	2	2.24	2	129.4	2	-9	9	-9	9	206.04	2	1049	2	-9	9	7.6156	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 39 DATE 3/10/94 LATITUDE 50°30.0'S Btm Depth: 4268
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.9	34.224	2	-9	5	8.942	8.941	26.520	-9	0.2	2	15.5	2	1.14	2	0.0	2	4.124	2	1.975	2	282.50	2	555	2	2085.4	2	-9	9	2275	2	-9	-9	-9	-9	-9
123	2	22.9	34.224	2	34.225	2	8.940	8.937	26.521	-9	0.2	2	14.8	2	0.38	4	0.0	2	4.104	2	2.013	2	282.20	2	554	2	2084.2	2	7.8477	2	2272	2	-9	-9	-9	-9	-9
122	2	48.7	34.224	2	-9	5	8.889	8.883	26.529	-9	-9	9	-9	9	-9	9	-9	9	4.134	2	2.000	2	282.01	2	554	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	100.3	34.273	2	-9	5	7.242	7.232	26.814	-9	0.2	2	16.7	2	1.22	2	1.7	2	4.452	2	2.128	2	288.10	2	609	2	2102.0	2	-9	9	2271	2	-9	-9	-9	-9	-9
120	2	148.2	34.297	2	34.297	2	6.496	6.483	26.935	-9	0.0	2	19.3	2	0.45	4	4.7	2	4.271	2	1.968	2	278.72	2	666	2	2112.6	2	7.7797	2	2274	2	-9	-9	-9	-9	-9
119	2	201.7	34.295	2	-9	5	6.288	6.270	26.961	-9	0.0	2	20.4	2	1.43	2	4.9	2	4.192	2	1.998	2	278.92	2	677	2	2116.7	2	-9	9	2277	2	-9	-9	-9	-9	-9
118	2	299.5	34.297	2	34.298	2	6.107	6.081	26.987	-9	0.0	2	20.9	2	1.51	2	6.1	2	3.851	2	1.803	2	273.17	2	698	2	2123.1	2	7.7640	2	2277	2	-9	-9	-9	-9	-9
117	2	399.3	34.307	2	34.306	2	6.009	5.975	27.008	-9	0.0	2	20.7	2	1.42	2	6.0	2	4.050	2	1.914	2	279.38	2	686	2	2123.3	2	7.7688	2	2278	2	-9	-9	-9	-9	-9
116	2	499.0	34.286	2	-9	5	5.761	5.718	27.023	-9	-9	9	-9	9	-9	9	-9	9	3.929	2	1.885	2	277.57	2	697	2	2124.7	2	-9	9	2276	2	-9	-9	-9	-9	-9
115	2	598.3	34.257	2	34.258	2	5.409	5.359	27.045	-9	0.0	2	23.2	2	1.64	2	9.6	2	3.486	2	1.628	2	266.69	2	741	2	2135.9	2	7.7403	2	2283	2	-9	-9	-9	-9	-9
114	2	698.7	34.248	2	34.249	2	5.052	4.995	27.080	-9	0.0	2	25.7	2	1.80	2	13.7	2	2.813	2	1.258	2	250.46	2	799	2	2150.2	2	7.7090	2	2284	2	-9	-9	-9	-9	-9
113	2	798.5	34.266	2	34.267	2	4.690	4.627	27.135	-9	0.0	2	28.0	2	1.96	2	19.6	2	2.014	2	0.909	2	231.76	2	879	2	2166.3	2	7.6758	2	2288	2	-9	-9	-9	-9	-9
112	2	1001.4	34.303	2	-9	5	3.751	3.678	27.265	-9	-9	9	-9	9	-9	9	-9	9	1.177	2	0.538	2	210.92	2	995	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1200.3	34.379	2	34.380	2	3.097	3.013	27.388	-9	0.0	2	33.2	2	2.31	2	50.2	2	0.648	2	0.301	2	192.72	2	-9	9	-9	9	7.5921	2	-9	9	-9	-9	-9	-9	-9
110	2	1400.1	34.460	2	34.460	2	2.743	2.646	27.485	-9	0.0	2	34.0	2	2.31	2	63.4	2	0.431	2	0.199	2	181.17	2	-9	9	-9	9	7.5740	2	-9	9	-9	-9	-9	-9	-9
109	2	1600.2	34.550	2	34.548	2	2.523	2.413	27.577	-9	0.0	2	34.1	2	2.40	2	73.5	2	0.182	2	0.082	2	170.77	2	-9	9	-9	9	7.5662	2	-9	9	-9	-9	-9	-9	-9
108	4	1881.7	34.635	2	-9	9	2.325	2.194	27.663	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2199.6	34.683	2	34.683	2	2.105	1.949	27.722	-9	0.0	2	33.3	2	2.33	2	92.5	2	0.017	2	0.015	2	171.13	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2599.8	34.702	2	34.700	2	1.794	1.608	27.763	-9	0.0	2	32.9	2	2.33	2	104.9	2	0.005	2	0.002	2	174.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2998.6	34.710	2	34.709	2	1.617	1.398	27.785	-9	0.0	2	32.2	2	2.28	2	110.7	2	0.012	2	-0.001	2	181.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3401.2	34.714	2	34.712	2	1.390	1.137	27.806	-9	0.0	2	32.1	2	1.98	4	116.0	2	0.005	2	0.007	2	189.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3797.7	34.711	2	34.708	2	0.979	0.696	27.833	-9	0.0	2	32.2	2	2.29	2	123.6	2	0.000	2	0.001	2	199.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4200.9	34.708	2	34.707	2	0.780	0.460	27.845	-9	0.0	2	32.4	2	2.29	2	128.5	2	0.233	4	0.009	2	204.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4306.0	34.708	2	34.707	2	0.783	0.451	27.845	-9	0.0	2	32.7	2	2.24	2	130.0	2	0.005	2	0.003	2	204.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 40 DATE 3/10/94 LATITUDE 49°50.0'S Btm Depth: 4186
CAST 3 LONGITUDE 102°60.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.0	34.158	2	34.158	2	10.089	10.088	26.280	0.107	0.2	2	13.7	2	1.09	2	0.0	2	-9	1	-9	1	275.89	2	529	2	2073.3	2	7.8642	2	2268	6	1.90	-9	-9	0.116	0.055
335	2	9.0	34.159	2	34.171	2	10.088	10.087	26.281	0.107	0.2	2	13.8	2	1.07	2	0.0	2	3.915	2	1.920	2	277.04	2	531	2	2075.4	2	7.8617	2	2264	2	-9	-9	-9	-9	-9
334	2	24.4	34.168	2	34.227	3	9.923	9.920	26.316	0.092	0.2	2	14.6	2	1.08	2	0.0	2	4.097	2	1.982	2	281.40	2	549	2	2084.7	2	7.8503	2	2276	2	-9	-9	-9	0.120	0.060
333	2	49.7	34.226	2	34.230	2	9.009	9.004	26.511	0.096	0.2	2	14.7	2	1.14	2	0.0	2	4.098	2	1.988	2	280.31	2	-9	9	2086.1	2	7.8503	2	2275	2	-9	-9	-9	0.125	0.059
332	2	73.5	34.229	2	34.235	2	8.966	8.958	26.521	0.085	0.2	2	15.4	2	1.22	2	0.8	2	4.374	2	2.130	2	288.12	2	592	2	2095.3	2	7.8245	2	2267	2	-9	52.6	5.3	0.119	0.056
331	2	100.2	34.235	2	34.236	2	7.663	7.653	26.724	0.061	0.2	2	16.4	2	1.30	2	2.0	2	4.416	2	2.107	2	285.77	2	-9	9	2102.5	2	7.8069	2	2278	2	-9	-9	-9	-9	-9
330	2	117.9	34.235	2	34.266	3	7.017	7.006	26.815	0.044	0.1	2	18.2	2	1.32	2	2.9	2	4.296	2	2.050	2	278.77	2	657	2	2109.9	2	7.7886	2	2274	2	-9	-9	-9	0.177	0.153
329	2	159.2	34.270	2	34.312	3	6.674	6.660	26.890	0.024	0.0	2	19.3	2	1.43	2	4.4	2	3.993	6	1.910	6	272.52	2	672	2	2118.7	2	7.7745	2	2279	2	-9	47.4	-9	0.127	0.083
328	2	207.0	34.308	2	34.304	2	6.569	6.550	26.934	0.017	0.0	2	20.0	2	1.46	2	5.0	2	3.967	2	1.869	2	273.13	2	677	2	2120.9	2	7.7698	2	2279	2	-9	-9	-9	0.007	0.009
327	2	257.3	34.299	2	34.304	2	6.370	6.347	26.954	0.012	0.0	2	20.7	2	1.51	2	5.5	2	3.792	2	1.774	2	271.05	2	689	2	2123.5	2	7.7646	2	2280	2	-9	46.1	3.5	-9	-9
326	2	311.0	34.313	2	34.298	2	6.347	6.320	26.969	0.010	0.0	2	21.1	2	1.51	2	5.9	2	3.653	2	1.712	2	269.73	2	697	2	2126.5	2	7.7594	2	2278	2	-9	-9	-9	-9	-9
325	2	363.1	34.295	2	34.299	2	6.146	6.115	26.981	0.011	0.0	2	21.6	2	1.53	2	6.9	2	3.469	2	1.608	2	266.66	2	703	2	2127.5	2	7.7542	2	2280	2	-9	47.1	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	481.8	34.288	2	34.287	2	5.924	5.882	27.005	0.013	0.0	2	22.4	2	1.64	2	7.9	2	3.317	2	1.526	2	265.20	2	722	2	2130.5	2	7.7477	2	2281	2	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	577.1	34.272	2	34.270	2	5.610	5.561	27.032	0.010	0.0	2	24.1	2	1.73	2	9.8	2	2.846	6	1.308	6	257.70	2	742	2	2138.6	2	7.7305	2	2281	2	-9	45.2	3.6	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	687.6	34.259	2	34.259	2	5.205	5.148	27.071	0.010	0.0	2	25.7	2	1.83	2	13.0	2	2.524	2	1.147	2	249.36	2	806	6	2147.8	2	7.7108	2	2276	2	-9	-9	-9	-9	-9
318	2	766.5	34.260	2	34.263	2	4.873	4.812	27.110	0.010	0.0	2	27.6	2	1.95	2	18.7	2	1.960	2	0.889	2	234.01	2	879	2	2163.6	2	7.6806	2	2284	2	-9	46.4	-9	-9	-9
317	2	865.2	34.273	2	34.279	3	4.456	4.389	27.167	0.011	0.0	2	29.8	2	2.11	2	25.5	2	1.327	2	0.613	2	220.73	2	941	2	2178.4	2	7.6529	2	2289	2	-9	-9	-9	-9	-9
316	2	964.5	34.293	2	34.302	3	4.079	4.006	27.223	0.010	0.0	2	31.8	2	2.21	2	32.5	2	1.105	2	0.519	2	211.50	2	977	2	2192.8	2	7.6318	2	2298	6	-9	43.0	2.1	-9	-9
315	2	1163.2	34.351	2	34.365	4	3.360	3.277	27.342	0.011	0.0	2	32.7	2	2.32	2	48.3	2	0.639	2	0.291	2	194.99	2	-9	9	-9	9	7.5968	2	-9	9	-9	-9	-9	-9	-9
314	2	1361.4	34.441	2	34.456	4	2.857	2.762	27.460	0.010	0.0	2	34.0	2	2.40	2	62.7	2	0.345	2	0.157	2	178.92	2	-9	9	-9	9	7.5728	2	-9	9	-9	-9	-9	-9	-9
313	2	1577.1	34.529	2	34.535	3	2.585	2.475	27.555	0.010	0.0	2	34.2	2	2.41	2	73.4	2	-9	1	-9	1	170.87	2	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
312	2	1771.5	34.595	2	34.602	3	2.432	2.309	27.622	0.008	0.0	2	33.6	2	2.34	2	82.2	2	0.117	2	0.049	2	168.96	2	-9	9	-9	9	7.5700	2	-9	9	-9	-9	-9	-9	-9
311	2	1975.2	34.644	2	34.647	2	2.302	2.163	27.673	0.008	0.0	2	33.1	2	2.34	2	88.0	2	0.091	2	0.036	2	168.82	2	-9	9	-9	9	7.5768	2	-9	9	-9	39.4	-9	-9	-9
310	2	2215.2	34.682	2	34.684	2	2.146	1.988	27.718	0.007	0.0	2	32.6	2	2.32	2	92.8	2	0.026	2	0.010	2	171.81	2	-9	9	-9	9	7.5863	2	-9	9	-9	-9	-9	-9	-9
309	2	2469.0	34.700	2	34.701	2	1.965	1.788	27.748	0.007	0.0	2	32.7	2	2.32	2	100.1	2	0.012	2	0.007	2	173.90	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2712.1	34.706	2	34.706	2	1.775	1.579	27.768	0.005	0.0	2	32.6	2	2.30	2	108.7	2	0.004	2	0.003	2	176.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2977.0	34.709	2	34.709	2	1.646	1.428	27.782	0.004	0.0	2	32.5	2	2.27	2	112.7	2	0.203	4	0.025	2	181.19	2	-9	9	-9	9	-9	9	-9	9	-9	38.9	2.5	-9	-9
306	2	3217.0	34.713	2	34.712	2	1.544	1.305	27.794	0.004	0.0	2	32.3	2	2.27	2	113.2	2	-0.003	2	0.000	2	181.49	3	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
305	2	3468.1	34.713	2	34.713	2	1.331	1.072	27.810	0.003	0.0	2	32.2	2	2.30	2	117.8	2	0.002	2	0.001	2	191.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3710.2	34.710	2	34.709	2	1.063	0.787	27.826	0.003	0.0	2	32.5	2	2.29	2	125.7	2	0.002	2	0.001	2	197.84	2	1049	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3963.2	34.709	2	34.707	2	0.844	0.547	27.840	0.003	0.0	2	32.3	2	2.24	2	132.6	2	-0.002	2	-0.001	6	202.72	2	-9	9	-9	9	-9	9	-9	9	-9	38.5	-9	-9	-9
302	2	3979.8	34.709	2	34.707	2	0.838	0.540	27.840	0.003	0.0	2	32.3	2	2.27	2	133.5	2	-0.002	2	0.000	2	202.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	2	4232.9	34.708	2	34.707	2	0.789	0.465	27.844	0.004	0.0	2	32.5	2	2.29	2	131.8	2	-0.002	6	0.000	6	203.57	2	-9	9	-9	9	-9	9	-9	9	-9	40.4	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 41 DATE 3/11/94 LATITUDE 49°9.8'S Btm Depth: 4203
CAST 1 LONGITUDE 103°0.2'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.6	34.155	2	34.156	2	10.281	10.280	26.244	0.135	0.2	2	13.5	2	1.08	2	0.0	2	-9	9	-9	9	275.64	2	525	2	2071.2	2	7.8656	2	2269	6	1.90	-9	-9	-9	-9
135	2	24.5	34.156	2	34.157	2	10.251	10.249	26.251	0.136	0.2	2	13.5	2	1.10	2	0.0	2	3.830	2	1.892	2	275.80	2	-9	9	2070.6	2	7.8669	2	2270	6	1.90	-9	-9	-9	-9
134	2	49.1	34.160	2	34.160	2	10.006	10.001	26.296	0.128	0.2	2	13.8	2	1.10	2	0.0	2	-9	9	-9	9	276.28	2	529	6	2072.2	2	7.8623	2	2268	2	1.90	-9	-9	-9	-9
133	2	73.8	34.195	2	34.210	2	9.354	9.346	26.432	0.090	0.2	2	14.4	2	1.16	2	0.1	2	4.234	2	2.023	2	285.97	2	558	2	2086.1	3	7.8412	2	2277	2	1.80	-9	-9	-9	-9
132	3	99.6	34.242	2	34.253	2	7.473	7.463	26.757	0.061	0.2	2	15.7	2	1.27	2	1.5	2	-9	9	-9	9	287.28	2	-9	9	2099.3	3	-9	9	2273	3	1.60	-9	-9	-9	-9
131	2	123.8	34.271	2	34.272	2	6.991	6.979	26.847	0.039	0.2	2	17.7	2	1.35	2	2.5	2	4.164	2	1.792	3	274.68	2	-9	9	2108.1	3	7.7902	2	2275	2	1.50	-9	-9	-9	-9
130	2	149.5	34.290	2	34.291	2	6.821	6.807	26.886	0.029	0.0	2	19.0	2	1.34	2	3.0	2	-9	9	-9	9	274.69	2	648	2	2109.1	3	7.7852	2	-9	5	1.50	-9	-9	-9	-9
129	2	200.7	34.321	2	34.321	2	6.659	6.641	26.932	0.019	0.0	2	18.9	2	1.40	2	4.2	2	4.083	2	1.941	2	275.30	2	-9	9	2117.1	2	7.7803	2	2277	2	1.50	-9	-9	-9	-9
128	2	249.0	34.324	2	34.325	2	6.588	6.566	26.945	0.013	0.0	2	18.3	2	1.35	2	3.6	2	-9	9	-9	9	283.45	2	-9	9	2113.0	2	7.7892	2	2276	2	1.50	-9	-9	-9	-9
127	2	300.6	34.326	2	34.325	2	6.569	6.542	26.950	0.011	0.0	2	18.3	2	1.36	2	3.7	2	4.274	2	2.081	2	284.41	2	645	2	2112.1	2	7.7908	2	-9	5	1.50	-9	-9	-9	-9
126	2	349.4	34.327	2	34.326	2	6.538	6.506	26.955	0.010	0.0	2	18.4	2	1.36	2	3.9	2	-9	9	-9	9	282.33	2	-9	9	2113.9	2	7.7869	2	2277	2	1.60	-9	-9	-9	-9
125	2	398.6	34.325	2	34.325	2	6.447	6.411	26.966	0.008	0.0	2	19.1	2	1.40	2	4.4	2	4.080	2	1.948	2	279.67	2	-9	9	2117.0	2	7.7824	2	2275	2	1.50	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	498.6	34.302	2	34.302	2	6.139	6.095	26.989	0.008	0.0	2	21.4	2	1.59	2	6.7	2	3.442	2	1.616	2	267.07	2	712	2	2127.1	2	7.7564	2	2278	2	1.40	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.5	34.280	2	34.280	2	5.721	5.670	27.025	0.008	0.0	2	23.2	2	1.68	2	8.7	2	3.036	2	1.447	2	259.76	2	-9	9	2135.1	2	7.7394	2	2282	2	1.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	697.6	34.261	2	34.261	2	5.320	5.262	27.059	0.008	0.0	2	24.6	2	1.77	2	11.5	2	2.706	2	1.255	2	253.31	2	-9	9	2143.6	2	7.7204	2	2281	2	1.30	-9	-9	-9	-9
118	2	800.6	34.261	2	34.261	2	4.936	4.872	27.104	0.011	0.0	2	26.7	2	1.90	2	16.2	2	-9	9	-9	9	240.35	2	840	2	2157.7	2	7.6935	2	2285	2	1.20	-9	-9	-9	-9
117	2	899.9	34.275	2	34.275	2	4.492	4.421	27.165	0.011	0.0	2	28.8	2	2.07	2	22.8	2	1.568	2	0.714	2	223.80	2	-9	9	2175.1	2	7.6618	2	2292	2	1.00	-9	-9	-9	-9
116	2	998.7	34.298	2	34.297	2	3.996	3.921	27.235	0.011	0.0	2	30.6	2	2.19	2	30.0	2	-9	9	-9	9	212.92	2	973	2	2189.9	2	7.6358	2	2290	6	0.90	-9	-9	-9	-9
115	2	1201.0	34.370	2	34.368	2	3.305	3.219	27.362	0.010	0.0	2	33.0	2	2.31	2	46.5	2	0.409	2	0.197	2	189.78	2	-9	9	2217.2	2	7.5938	2	2311	2	0.80	-9	-9	-9	-9
114	2	1399.7	34.456	2	34.455	2	2.879	2.781	27.471	0.010	0.0	2	34.3	2	2.41	2	61.7	2	-9	9	-9	9	173.37	2	-9	9	2245.4	2	7.5691	2	2323	2	0.60	-9	-9	-9	-9
113	2	1598.2	34.530	2	34.528	2	2.616	2.505	27.553	0.010	0.0	2	34.7	2	2.39	2	72.4	2	0.149	4	0.071	2	168.73	2	-9	9	2254.1	2	7.5645	2	2334	2	0.40	-9	-9	-9	-9
112	2	1798.6	34.595	2	34.594	2	2.447	2.321	27.621	0.008	0.0	2	34.2	2	2.37	2	82.8	2	-9	9	-9	9	164.11	2	-9	9	2263.9	2	7.5667	2	2346	2	0.40	-9	-9	-9	-9
111	2	1999.4	34.645	2	34.643	2	2.291	2.150	27.675	0.007	0.0	2	33.5	2	2.32	2	89.4	2	0.025	2	0.014	2	167.22	2	-9	9	2264.5	2	7.5755	2	2351	2	0.40	-9	-9	-9	-9
110	2	2249.3	34.682	2	34.680	2	2.128	1.967	27.719	0.006	0.0	2	32.9	2	2.32	2	94.9	2	-9	9	-9	9	170.59	2	-9	9	2266.3	2	7.5841	2	2358	2	0.40	-9	-9	-9	-9
109	2	2500.1	34.700	2	34.698	2	1.938	1.759	27.750	0.006	0.0	2	32.7	2	2.33	2	99.9	2	0.003	2	0.003	2	172.81	6	-9	9	2272.0	2	7.5904	2	2366	2	0.30	-9	-9	-9	-9
108	2	2750.6	34.705	2	34.704	2	1.758	1.559	27.769	0.005	0.0	2	32.8	2	2.33	2	106.7	2	-9	9	-9	9	175.82	6	-9	9	2275.0	2	7.5950	2	2366	2	0.40	-9	-9	-9	-9
107	2	2983.7	34.709	2	34.708	2	1.655	1.436	27.781	0.005	0.0	2	32.5	2	2.25	2	110.7	2	0.000	2	-0.003	2	179.70	2	-9	9	2274.6	2	7.6003	2	2369	2	0.40	-9	-9	-9	-9
106	2	3249.4	34.714	2	34.713	2	1.530	1.288	27.796	0.004	0.0	2	32.4	2	2.27	2	113.4	2	-9	9	-9	9	185.38	2	-9	9	2271.4	2	7.6048	2	2369	2	0.40	-9	-9	-9	-9
105	2	3499.8	34.713	2	34.711	2	1.326	1.064	27.811	0.003	0.0	2	32.4	2	2.24	2	117.2	2	0.024	4	0.006	2	190.33	2	-9	9	2272.2	2	-9	9	2373	2	0.30	-9	-9	-9	-9
104	2	3751.5	34.711	2	34.709	2	1.062	0.781	27.827	0.003	0.0	2	32.7	2	2.22	2	123.8	2	-9	9	-9	9	196.58	2	-9	9	2272.3	2	7.6132	2	2375	2	0.40	-9	-9	-9	-9
103	2	3997.3	34.710	2	34.707	2	0.839	0.539	27.841	0.003	0.0	2	32.3	2	2.28	2	129.8	2	0.000	6	-0.001	6	202.44	2	-9	9	2270.8	2	7.6156	2	2373	2	-9	-9	-9	-9	-9
102	2	3998.8	34.709	2	34.708	2	0.839	0.538	27.841	0.002	0.0	2	32.3	2	2.22	2	131.6	2	-9	9	-9	9	202.44	2	-9	9	2271.5	2	7.6151	2	2372	2	0.40	-9	-9	-9	-9
101	2	4286.7	34.708	2	34.706	2	0.767	0.438	27.846	0.002	0.0	2	32.5	2	2.24	2	133.3	2	0.003	2	0.000	2	207.32	2	-9	9	2270.1	2	-9	9	2372	2	0.40	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 42 DATE 3/11/94 LATITUDE 48°29.0'S Btm Depth: 4247
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.6	34.163	2	34.162	2	10.264	10.263	26.253	0.124	0.2	2	13.6	2	1.07	2	0.6	2	3.825	2	1.883	2	276.42	2	531	2	2074.3	2	7.8632	2	2268	2	-9	-9	-9	-9	-9
135	2	24.3	34.163	2	34.164	2	10.225	10.222	26.261	0.131	0.2	2	13.5	2	1.07	2	0.5	2	3.855	2	1.896	2	276.53	2	531	2	2073.0	2	7.8633	2	2268	2	-9	-9	-9	-9	-9
134	2	49.6	34.172	2	34.173	2	9.946	9.941	26.316	0.129	0.2	2	13.8	2	1.01	2	0.5	2	3.891	2	1.896	2	277.21	2	535	2	2075.9	2	7.8621	2	2267	2	-9	-9	-9	-9	-9
133	2	75.3	34.185	2	34.187	2	9.287	9.278	26.435	0.104	0.2	2	14.0	2	1.09	2	0.7	2	4.003	2	1.964	2	278.38	2	-9	9	2077.9	2	7.8550	2	2269	2	-9	-9	-9	-9	-9
132	2	98.9	34.195	2	34.196	2	7.556	7.547	26.708	0.068	0.2	2	15.3	2	1.20	2	2.3	2	4.320	6	2.110	6	289.10	2	595	2	2094.0	2	7.8216	2	2272	2	-9	-9	-9	-9	-9
131	2	125.1	34.225	2	34.226	2	7.090	7.078	26.797	0.042	0.2	2	16.0	2	1.26	2	2.8	2	-9	1	-9	1	288.80	2	-9	9	2099.8	2	7.8112	2	2271	2	-9	-9	-9	-9	-9
130	2	152.1	34.232	2	34.232	2	6.709	6.695	26.855	0.032	0.4	2	17.1	2	1.24	2	3.4	2	4.443	2	2.141	2	285.47	2	638	2	2117.1	2	7.7987	2	-9	5	-9	-9	-9	-9	-9
129	3	196.4	34.276	2	34.278	2	6.547	6.529	26.912	0.020	0.0	2	18.6	2	1.35	2	4.6	2	4.874	2	2.035	2	-9	1	661	2	2115.0	2	7.7825	2	2266	3	-9	-9	-9	-9	-9
128	2	249.1	34.296	2	34.300	2	6.505	6.483	26.934	0.017	0.0	2	19.6	2	1.42	2	5.5	2	4.727	4	1.890	2	271.94	2	681	2	2120.3	2	7.7711	2	2274	2	-9	-9	-9	-9	-9
127	2	300.9	34.308	2	34.313	2	6.451	6.424	26.951	0.015	0.0	2	20.2	2	1.45	2	6.1	2	3.814	6	1.799	6	269.70	2	698	2	2122.6	2	7.7667	2	2282	2	-9	-9	-9	-9	-9
126	2	350.2	34.300	2	34.301	2	6.315	6.284	26.963	0.015	0.0	2	20.8	2	1.49	2	6.6	2	3.710	2	1.727	2	271.34	2	712	2	2133.6	2	7.7630	2	2286	2	-9	-9	-9	-9	-9
125	2	400.7	34.306	2	34.304	2	6.260	6.225	26.975	0.015	0.0	2	21.1	2	1.44	2	7.2	2	3.564	2	1.664	2	267.94	2	711	2	2123.2	2	7.7603	2	2280	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	499.0	34.293	2	34.293	2	5.992	5.949	27.001	0.014	0.0	2	21.9	2	1.56	2	8.4	2	3.348	2	1.543	2	266.42	2	-9	9	-9	9	-9	9	2279	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	595.4	34.280	2	34.279	2	5.741	5.690	27.022	0.010	0.0	2	23.0	2	1.62	2	9.4	2	3.117	2	1.468	2	263.65	2	747	2	2135.4	2	7.7438	2	2279	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.0	34.260	2	34.261	2	5.325	5.267	27.057	0.010	0.0	2	24.9	2	1.74	2	12.1	2	2.823	2	1.304	2	255.80	2	779	2	2145.5	2	7.7235	2	2281	2	-9	-9	-9	-9	-9
118	2	798.1	34.262	2	-9	5	4.945	4.881	27.104	0.013	0.0	2	27.3	2	1.87	2	17.9	2	2.172	2	0.979	2	240.09	2	842	2	2159.2	2	-9	9	2284	2	-9	-9	-9	-9	-9
117	2	895.4	34.276	2	34.275	2	4.542	4.471	27.160	0.013	0.0	2	28.8	2	2.01	2	23.9	2	1.418	2	0.664	2	224.05	2	910	2	2174.3	2	7.6627	2	2288	2	-9	-9	-9	-9	-9
116	2	1000.6	34.295	2	34.295	2	4.077	4.001	27.225	0.012	0.0	2	30.4	2	2.11	2	30.8	2	1.069	2	0.503	2	213.25	2	967	2	2190.0	2	7.6392	2	2296	6	-9	-9	-9	-9	-9
115	2	1199.0	34.365	2	34.364	2	3.367	3.281	27.352	0.012	0.0	2	33.0	2	2.29	2	47.6	2	0.414	2	0.194	2	190.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1400.3	34.458	2	34.458	2	2.930	2.831	27.468	0.011	0.0	2	34.4	2	2.43	2	63.9	2	0.158	2	0.076	2	169.13	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1600.3	34.536	2	34.534	2	2.688	2.576	27.552	0.010	0.0	2	35.0	2	2.47	2	76.2	2	0.053	2	0.022	2	157.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1798.8	34.595	2	34.593	2	2.451	2.325	27.621	0.010	0.0	2	34.2	2	2.41	2	82.9	2	-9	1	-9	1	162.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	4	1999.5	34.638	2	-9	9	2.295	2.154	27.669	0.008	-9	1	-9	1	-9	1	-9	1	0.033	2	0.016	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2248.7	34.675	2	34.674	2	2.116	1.956	27.715	0.007	0.0	2	33.1	2	2.29	2	97.1	2	-9	9	-9	9	167.63	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2500.1	34.694	2	34.693	2	1.934	1.754	27.746	0.007	0.0	2	32.8	2	2.31	2	103.9	2	0.012	2	0.007	2	170.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2751.1	34.701	2	34.699	2	1.776	1.577	27.764	0.006	0.0	2	32.9	2	2.32	2	107.5	2	-9	9	-9	9	173.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2991.3	34.706	2	34.705	2	1.671	1.451	27.778	0.006	0.0	2	32.6	2	2.31	2	109.9	2	-0.001	2	0.002	2	178.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3251.9	34.712	2	34.710	2	1.580	1.337	27.791	0.005	0.0	2	32.2	2	2.22	2	112.5	2	-9	9	-9	9	183.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3496.2	34.712	2	34.710	2	1.386	1.123	27.805	0.004	0.0	2	32.2	2	2.26	2	119.0	2	-0.004	2	0.000	2	188.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3750.1	34.710	2	34.709	2	1.085	0.804	27.825	0.004	0.0	2	32.2	2	2.27	2	123.8	2	0.001	2	0.002	2	196.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3748.8	34.711	2	34.709	2	1.083	0.802	27.826	0.004	0.0	2	32.5	2	2.26	2	123.4	2	0.006	6	0.002	6	196.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3999.8	34.709	2	34.707	2	0.869	0.567	27.839	0.004	0.0	2	32.4	2	2.22	2	130.6	2	-9	9	-9	9	201.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4269.4	34.708	2	34.707	2	0.765	0.438	27.846	0.004	0.0	2	32.3	2	2.25	2	134.7	2	0.116	4	0.031	2	205.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 43 DATE 3/11/94 LATITUDE 47°59.8'S Btm Depth: 4093
CAST 1 LONGITUDE 103°0.4'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.3	34.124	2	34.125	2	10.565	10.564	26.171	0.128	0.2	2	13.4	2	1.08	2	0.7	2	-9	9	-9	9	273.61	2	525	2	2071.6	2	7.8663	2	-9	5	1.90	50.2	-9	0.118	0.053
135	2	24.9	34.124	2	34.124	2	10.565	10.562	26.171	0.132	0.2	2	13.4	2	1.09	2	0.6	2	-9	9	-9	9	271.83	2	525	2	-9	9	7.8653	2	-9	9	-9	47.1	4.6	0.120	0.045
134	2	49.8	34.123	2	34.124	2	10.508	10.502	26.181	0.135	0.2	2	13.3	2	1.06	2	0.5	2	-9	9	-9	9	271.41	2	527	6	-9	9	7.8654	2	-9	9	-9	54.4	4.6	0.145	0.065
133	2	74.5	34.194	2	34.192	2	8.186	8.178	26.614	0.111	0.1	2	14.6	2	1.15	2	1.6	2	-9	9	-9	9	287.97	2	-9	9	-9	9	7.8358	2	-9	9	-9	51.7	-9	0.223	0.119
132	2	100.2	34.204	2	34.205	2	7.501	7.491	26.723	0.073	0.2	2	15.2	2	1.21	2	2.3	2	-9	9	-9	9	289.76	2	593	2	-9	9	7.8220	2	-9	9	-9	40.7	4.6	0.197	0.181
131	2	124.9	34.218	2	34.218	2	7.004	6.993	26.804	0.053	0.3	2	16.0	2	1.28	2	2.9	2	-9	9	-9	9	286.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.183	0.159
130	2	149.6	34.252	2	34.253	2	6.649	6.635	26.879	0.038	0.1	2	17.2	2	1.30	2	3.3	2	-9	9	-9	9	284.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.120	0.117
129	2	200.5	34.267	2	34.267	2	6.441	6.423	26.919	0.024	0.0	2	17.5	2	1.26	2	3.6	2	-9	9	-9	9	283.78	2	633	2	-9	9	-9	9	-9	9	-9	44.7	-9	0.006	0.180
128	2	250.7	34.282	2	34.282	2	6.457	6.435	26.930	0.018	0.0	2	17.7	2	1.30	2	3.8	2	-9	9	-9	9	283.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	300.6	34.292	2	34.293	2	6.469	6.442	26.936	0.016	0.0	2	17.7	2	1.33	2	3.8	2	-9	9	-9	9	284.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	3.9	-9	-9
126	2	351.5	34.300	2	34.301	2	6.484	6.453	26.941	0.013	0.0	2	17.6	2	1.32	2	3.8	2	-9	9	-9	9	285.08	2	664	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	399.4	34.303	2	34.303	2	6.477	6.441	26.945	0.012	0.0	2	17.9	2	1.31	2	4.2	2	-9	9	-9	9	282.96	2	-9	9	-9	9	-9	9	-9	9	-9	37.3	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.3	34.299	2	34.300	2	6.329	6.284	26.963	0.014	0.0	2	19.6	2	1.45	2	5.9	2	-9	9	-9	9	276.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.8	34.291	2	34.290	2	6.054	6.001	26.992	0.015	0.0	2	21.7	2	1.58	2	7.8	2	-9	9	-9	9	266.08	2	752	2	-9	9	-9	9	-9	9	-9	45.9	2.9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.4	34.273	2	34.273	2	5.673	5.613	27.026	0.013	0.0	2	23.2	2	1.63	2	9.9	2	-9	9	-9	9	261.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	795.6	34.261	2	34.261	2	5.205	5.139	27.073	0.013	0.0	2	25.2	2	1.78	2	14.2	2	-9	9	-9	9	248.11	2	-9	9	-9	9	-9	9	-9	9	-9	45.7	-9	-9	-9
117	2	898.9	34.268	2	34.271	2	4.704	4.632	27.137	0.014	0.0	2	27.8	2	2.00	2	21.4	2	-9	9	-9	9	230.69	2	886	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1000.4	34.283	2	34.284	2	4.270	4.193	27.196	0.012	0.0	2	29.7	2	2.11	2	27.0	2	-9	9	-9	9	218.14	2	936	2	-9	9	-9	9	-9	9	-9	37.2	2.7	-9	-9
115	2	1199.5	34.359	2	34.358	2	3.367	3.281	27.347	0.011	0.0	2	32.9	2	2.34	2	44.7	2	-9	9	-9	9	191.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1401.2	34.448	2	34.447	2	2.950	2.851	27.458	0.011	0.0	2	34.5	2	2.47	2	60.8	2	-9	9	-9	9	162.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1599.1	34.531	2	34.528	2	2.693	2.580	27.548	0.010	0.0	2	35.1	2	2.48	2	75.5	2	-9	9	-9	9	158.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1799.2	34.591	2	34.589	2	2.470	2.344	27.616	0.010	0.0	2	34.6	2	2.51	2	84.6	2	-9	9	-9	9	159.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1998.9	34.638	2	34.637	2	2.279	2.138	27.670	0.009	0.0	2	34.2	2	2.45	2	90.6	2	-9	9	-9	9	161.78	2	-9	9	-9	9	-9	9	-9	9	-9	34.0	-9	-9	-9
110	2	2250.3	34.672	2	34.671	2	2.116	1.956	27.712	0.007	0.0	2	33.4	2	2.41	2	95.2	2	-9	9	-9	9	165.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2499.7	34.692	2	34.691	2	1.935	1.756	27.744	0.007	0.0	2	33.2	2	2.34	2	102.8	2	-0.003	2	0.002	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2749.6	34.701	2	34.700	2	1.780	1.581	27.765	0.006	0.0	2	32.9	2	2.35	2	109.0	2	-9	9	-9	9	173.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2999.6	34.705	2	34.703	2	1.680	1.459	27.776	0.005	0.0	2	32.9	2	2.36	2	110.5	2	-9	9	-9	9	175.70	2	-9	9	-9	9	-9	9	-9	9	-9	41.3	2.1	-9	-9
106	2	3249.0	34.710	2	34.708	2	1.575	1.333	27.789	0.005	0.0	2	32.8	2	2.29	2	110.5	2	-9	9	-9	9	181.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3500.7	34.712	2	34.711	2	1.396	1.132	27.805	0.005	0.0	2	32.4	2	2.32	2	115.3	2	-0.003	2	0.002	2	188.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3746.5	34.710	2	34.708	2	1.093	0.812	27.825	0.004	0.0	2	33.3	2	2.27	2	125.1	2	-9	9	-9	9	195.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3745.8	34.710	2	34.708	2	1.090	0.809	27.825	0.004	0.0	2	32.5	2	2.33	2	124.4	2	-0.001	2	-0.001	2	195.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4001.3	34.709	2	34.707	2	0.888	0.586	27.838	0.004	0.0	2	32.4	2	2.33	2	126.2	2	-9	9	-9	9	200.97	2	-9	9	-9	9	-9	9	-9	9	-9	38.4	-9	-9	-9
101	2	4169.3	34.708	2	34.707	2	0.798	0.481	27.844	0.004	0.0	2	32.5	2	2.32	2	129.2	2	-0.006	2	-0.001	2	203.28	2	-9	9	-9	9	-9	9	-9	9	-9	45.7	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 44 DATE 3/11/94 LATITUDE 47°30.0'S Btm Depth: 4247
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.8	34.126	2	34.127	2	10.703	10.702	26.148	0.119	0.2	2	13.4	2	1.05	2	0.4	2	3.776	2	1.903	2	273.01	2	525	4	2071.1	2	-9	9	2268	6	-9	-9	-9	-9	-9
135	2	24.1	34.128	2	34.128	2	10.617	10.614	26.165	0.132	0.2	2	13.4	2	1.06	2	0.4	2	3.792	2	1.841	2	272.98	2	-9	9	2071.9	2	7.8653	2	2269	2	-9	-9	-9	-9	-9
134	2	48.4	34.129	2	34.129	2	10.538	10.532	26.180	0.127	0.2	2	13.3	2	1.01	2	0.3	2	3.767	2	1.879	2	272.95	2	527	2	2072.2	2	7.8645	2	2260	2	-9	-9	-9	-9	-9
133	2	74.7	34.129	2	34.131	2	10.495	10.486	26.189	0.098	0.2	2	13.4	2	1.06	2	0.4	2	3.763	2	1.873	2	273.38	2	-9	9	2071.6	2	7.8641	2	2268	2	-9	-9	-9	-9	-9
132	2	98.8	34.159	2	34.162	2	8.121	8.111	26.597	0.053	0.1	2	14.7	2	1.16	2	1.7	2	4.345	2	2.115	2	289.81	2	526	4	2087.9	2	7.8317	2	2273	2	-9	-9	-9	-9	-9
131	2	123.6	34.168	2	34.174	2	7.221	7.210	26.734	0.041	0.2	2	15.9	2	1.23	2	2.4	2	4.453	2	2.161	2	288.43	2	-9	9	2095.7	2	7.8142	2	2271	2	-9	-9	-9	-9	-9
130	2	149.5	34.205	2	34.206	2	6.649	6.636	26.841	0.037	0.2	2	17.3	2	1.27	2	3.2	2	4.401	2	2.143	2	283.66	2	525	4	2103.9	2	7.7962	2	2274	2	-9	-9	-9	-9	-9
129	2	200.7	34.257	2	34.258	2	6.381	6.363	26.919	0.023	0.0	2	19.6	2	1.38	2	4.9	2	4.208	2	1.982	2	279.15	2	677	2	2116.7	2	7.7724	2	2274	2	-9	-9	-9	-9	-9
128	3	248.2	34.273	2	34.274	2	6.207	6.185	26.954	0.015	0.0	2	20.5	2	1.45	2	6.0	2	3.993	4	1.910	4	275.33	2	-9	9	2120.1	2	-9	9	2277	2	-9	-9	-9	-9	-9
127	2	298.7	34.281	2	34.283	2	6.127	6.102	26.972	0.013	0.0	2	20.9	2	1.49	2	6.5	2	3.804	2	1.811	2	272.07	2	673	4	2123.0	2	7.7619	2	2279	2	-9	-9	-9	-9	-9
126	2	349.7	34.285	2	34.285	2	6.072	6.042	26.982	0.011	0.0	2	21.1	2	1.46	2	6.8	2	3.712	2	1.747	2	270.21	2	700	2	2123.6	2	7.7599	2	2278	2	-9	-9	-9	-9	-9
125	3	398.9	34.290	2	34.291	2	6.029	5.994	26.992	0.011	0.0	2	21.6	2	1.48	2	7.6	2	3.492	2	1.615	2	266.97	2	708	2	2125.7	2	7.7556	2	2279	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	449.4	34.285	2	34.286	2	5.925	5.886	27.002	0.010	0.0	2	21.8	2	1.54	2	8.0	2	3.411	2	1.586	2	267.89	2	705	2	2127.0	2	7.7526	2	2278	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	501.6	34.279	2	34.280	2	5.796	5.753	27.014	0.009	0.0	2	22.4	2	1.58	2	8.5	2	3.285	2	1.534	2	266.70	2	717	2	2129.3	2	7.7479	2	2281	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	696.7	34.252	2	34.253	2	5.176	5.119	27.069	0.012	0.0	2	25.0	2	1.70	2	12.9	2	2.773	2	1.290	2	253.84	2	775	2	2143.5	2	7.7177	2	2282	2	-9	-9	-9	-9	-9
118	2	798.5	34.256	2	34.258	2	4.781	4.717	27.118	0.010	0.0	2	27.1	2	1.83	2	18.3	2	2.088	2	0.941	2	238.27	2	844	2	2159.0	2	7.6880	2	2284	2	-9	-9	-9	-9	-9
117	2	866.5	34.266	2	34.267	2	4.517	4.449	27.155	0.010	0.0	2	28.6	2	1.96	2	22.4	2	1.634	2	0.763	2	227.89	2	893	2	2169.6	2	7.6672	2	2289	2	-9	-9	-9	-9	-9
116	2	999.8	34.294	2	34.295	2	3.949	3.874	27.238	0.010	0.0	2	30.7	2	2.16	2	33.6	2	1.012	2	0.475	2	211.76	2	979	2	2190.2	2	7.6333	2	2294	6	-9	-9	-9	-9	-9
115	2	1199.2	34.370	2	34.370	2	3.296	3.210	27.363	0.010	0.0	2	33.1	2	2.34	2	49.2	2	0.386	2	0.189	2	188.24	2	-9	9	-9	9	7.5923	2	-9	9	-9	-9	-9	-9	-9
114	2	1400.0	34.465	2	34.462	2	2.859	2.761	27.479	0.008	0.0	2	34.4	2	2.46	2	64.2	2	0.191	2	0.096	2	171.55	2	-9	9	-9	9	7.5671	2	-9	9	-9	-9	-9	-9	-9
113	2	1600.2	34.540	2	34.540	2	2.623	2.511	27.561	0.010	0.0	2	34.7	2	2.48	2	75.7	2	0.083	2	0.041	2	163.70	2	-9	9	-9	9	7.5606	2	-9	9	-9	-9	-9	-9	-9
112	2	1799.1	34.600	2	34.599	2	2.433	2.308	27.626	0.006	0.0	2	34.5	2	2.42	2	87.1	2	0.024	2	0.009	2	159.01	2	-9	9	-9	9	7.5624	2	-9	9	-9	-9	-9	-9	-9
111	2	2001.2	34.639	2	34.639	2	2.263	2.122	27.673	0.006	0.0	2	34.2	2	2.40	2	95.4	2	0.016	2	0.010	2	160.48	2	-9	9	-9	9	7.5698	2	-9	9	-9	-9	-9	-9	-9
110	2	2248.4	34.673	2	34.673	2	2.086	1.926	27.715	0.005	0.0	2	33.6	2	2.39	2	100.7	2	0.000	2	0.001	2	164.25	2	-9	9	-9	9	7.5799	2	-9	9	-9	-9	-9	-9	-9
109	2	2499.1	34.692	2	34.691	2	1.916	1.737	27.745	0.004	0.0	2	33.4	2	2.38	2	105.4	2	0.000	2	0.003	2	168.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2749.5	34.701	2	34.701	2	1.769	1.570	27.765	0.004	0.0	2	33.1	2	2.33	2	109.9	2	0.001	2	-0.002	2	173.48	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2997.9	34.706	2	34.706	2	1.648	1.428	27.780	0.003	0.0	2	32.8	2	2.32	2	113.3	2	0.001	2	-0.002	2	178.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3248.3	34.711	2	34.710	2	1.539	1.297	27.792	0.003	0.0	2	32.5	2	2.33	2	114.6	2	-9	9	-9	9	182.61	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3499.7	34.711	2	34.710	2	1.349	1.087	27.807	0.002	0.0	2	32.5	2	2.33	2	117.9	2	-0.001	2	0.000	2	188.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3749.2	34.709	2	34.709	2	1.078	0.797	27.825	0.002	0.0	2	32.5	2	2.32	2	125.1	2	-9	9	-9	9	195.74	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4000.2	34.709	2	34.709	2	0.875	0.574	27.839	0.003	0.0	2	32.8	2	2.28	2	131.5	2	-0.001	6	-0.002	6	-9	1	1050	6	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3999.8	34.709	2	34.708	2	0.876	0.574	27.839	0.003	0.0	2	32.3	2	2.31	2	131.7	2	-9	9	-9	9	201.39	2	1053	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4318.5	34.708	2	34.707	2	0.780	0.447	27.846	0.004	0.0	2	34.2	2	2.31	2	131.8	2	0.014	2	0.011	2	203.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 45 DATE 3/12/94 LATITUDE 46°59.9'S Btm Depth: 4062
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.7	34.145	2	34.146	2	10.811	10.810	26.144	0.122	0.2	2	13.2	2	1.13	2	0.0	2	-9	9	-9	9	274.43	2	520	2	2068.5	2	7.8677	2	-9	5	1.90	-9	-9	-9	-9
135	2	25.1	34.144	2	34.144	2	10.580	10.577	26.184	0.134	0.2	2	13.3	2	1.09	2	0.0	2	-9	9	-9	9	274.09	2	523	2	2069.5	2	7.8671	2	2265	2	-9	-9	-9	-9	-9
134	2	48.4	34.145	2	34.145	2	10.552	10.547	26.190	0.125	0.2	2	13.3	2	1.14	2	0.0	2	-9	9	-9	9	273.62	2	520	2	2068.3	2	7.8666	2	2264	2	-9	-9	-9	-9	-9
133	2	74.6	34.142	2	34.150	2	10.488	10.480	26.200	0.076	0.2	2	13.9	2	1.17	2	0.0	2	-9	9	-9	9	274.42	2	-9	9	2071.9	2	7.8625	2	2264	2	-9	-9	-9	-9	-9
132	2	98.2	34.192	2	34.199	2	8.125	8.115	26.622	0.050	0.2	2	14.6	2	1.28	2	0.8	2	-9	9	-9	9	284.76	2	585	2	2090.3	2	7.8273	2	2273	2	-9	-9	-9	-9	-9
131	2	123.4	34.227	2	34.227	2	7.420	7.409	26.753	0.042	0.2	2	16.1	2	1.32	2	1.8	2	-9	9	-9	9	278.76	2	-9	9	2098.4	2	7.8068	2	2272	2	-9	-9	-9	-9	-9
130	2	148.8	34.254	2	34.255	2	7.032	7.018	26.828	0.035	0.1	2	17.7	2	1.43	2	2.6	2	-9	9	-9	9	273.75	2	645	2	2106.9	2	7.7914	2	2269	2	-9	-9	-9	-9	-9
129	2	199.1	34.291	2	34.290	2	6.712	6.694	26.902	0.022	0.0	2	18.5	2	1.47	2	3.4	2	-9	9	-9	9	276.40	2	658	2	2113.0	2	7.7848	2	2275	2	-9	-9	-9	-9	-9
128	2	251.6	34.319	2	34.318	2	6.656	6.633	26.932	0.016	0.0	2	20.1	2	1.58	2	4.8	2	-9	9	-9	9	264.21	2	695	2	2118.8	2	7.7652	2	2271	2	-9	-9	-9	-9	-9
127	2	294.9	34.322	2	34.322	2	6.539	6.512	26.950	0.013	0.0	2	20.8	2	1.56	2	5.5	2	-9	9	-9	9	262.42	2	701	6	2126.4	2	7.7589	2	-9	5	-9	-9	-9	-9	-9
126	2	296.9	34.321	2	34.321	2	6.526	6.500	26.951	0.015	0.0	2	20.8	2	1.61	2	5.7	2	-9	9	-9	9	262.96	2	-9	9	2125.9	2	7.7594	2	2273	2	-9	-9	-9	-9	-9
125	2	399.4	34.310	2	34.310	2	6.237	6.202	26.981	0.012	0.0	2	21.6	2	1.66	2	6.8	2	-9	9	-9	9	264.45	2	707	2	2127.7	2	7.7545	2	2276	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	502.6	34.300	2	34.300	2	6.000	5.956	27.005	0.006	0.0	2	22.7	2	1.71	2	7.3	2	-9	9	-9	9	264.10	2	716	2	2131.5	2	7.7513	2	2275	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.2	34.279	2	34.280	2	5.671	5.620	27.090	0.007	0.0	2	24.0	2	1.75	2	9.1	2	-9	9	-9	9	258.77	2	748	2	2135.7	2	7.7377	2	-9	5	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	701.7	34.268	2	34.269	2	5.349	5.291	27.061	0.010	0.0	2	25.1	2	1.87	2	12.1	2	-9	9	-9	9	249.56	2	781	2	2145.4	2	7.7185	2	2284	2	-9	-9	-9	-9	-9
118	2	799.4	34.268	2	34.269	2	4.929	4.864	27.111	0.009	0.0	2	27.3	2	2.06	2	17.0	2	-9	9	-9	9	234.74	2	845	2	2159.8	2	7.6882	2	2285	2	-9	-9	-9	-9	-9
117	2	900.2	34.283	2	34.284	2	4.468	4.398	27.174	0.010	0.0	2	29.4	2	2.24	2	23.7	2	-9	9	-9	9	219.30	2	923	2	2177.6	2	7.6565	2	-9	5	-9	-9	-9	-9	-9
116	2	999.1	34.306	2	34.307	2	3.991	3.916	27.242	0.010	0.0	2	30.7	2	2.21	2	32.1	2	-9	9	-9	9	208.11	2	992	2	2192.5	2	7.6321	2	2297	2	-9	-9	-9	-9	-9
115	2	1202.8	34.370	2	34.369	2	3.336	3.249	27.359	0.009	0.0	2	33.1	2	2.40	2	46.5	2	-9	9	-9	9	188.92	2	1095	2	2218.4	2	7.5936	2	2313	2	-9	-9	-9	-9	-9
114	2	1399.5	34.457	2	34.458	2	2.889	2.791	27.470	0.008	0.0	2	34.0	2	2.47	2	62.0	2	-9	9	-9	9	173.30	2	1174	2	2242.6	2	7.5696	2	2330	2	-9	-9	-9	-9	-9
113	2	1599.4	34.533	2	34.533	2	2.628	2.516	27.555	0.008	0.0	2	34.3	2	2.44	2	73.6	2	-9	9	-9	9	166.18	2	1194	2	2252.4	2	7.5636	2	2338	2	-9	-9	-9	-9	-9
112	2	1797.6	34.603	2	34.603	2	2.421	2.296	27.630	0.007	0.0	2	34.0	2	2.44	2	83.2	2	-9	9	-9	9	162.89	2	1193	2	2265.4	2	7.5667	2	2352	2	-9	-9	-9	-9	-9
111	2	1999.0	34.648	2	34.647	2	2.278	2.137	27.679	0.006	0.0	2	33.5	2	2.41	2	85.8	2	-9	9	-9	9	167.89	2	1160	2	2264.3	2	7.5765	2	2355	2	-9	-9	-9	-9	-9
110	2	2251.4	34.683	2	34.682	2	2.106	1.946	27.722	0.005	0.0	2	32.9	2	2.38	2	92.8	2	-9	9	-9	9	170.46	6	-9	9	2268.4	2	7.5851	2	2361	2	-9	-9	-9	-9	-9
109	2	2499.7	34.696	2	34.696	2	1.900	1.721	27.750	0.005	0.0	2	32.9	2	2.32	2	103.0	2	-9	9	-9	9	170.96	2	1123	2	2275.3	2	7.5901	2	2369	2	-9	-9	-9	-9	-9
108	2	2748.1	34.702	2	34.701	2	1.749	1.550	27.767	0.004	0.0	2	32.8	2	2.37	2	107.8	2	-9	9	-9	9	173.78	6	-9	9	2277.8	2	7.5952	2	2374	2	-9	-9	-9	-9	-9
107	2	3001.1	34.707	2	34.706	2	1.646	1.425	27.780	0.005	0.0	2	32.7	2	2.38	2	108.6	2	-9	9	-9	9	178.19	2	1102	2	2277.1	2	7.6006	2	2373	2	-9	-9	-9	-9	-9
106	2	3248.2	34.711	2	34.710	2	1.540	1.298	27.793	0.003	0.0	2	32.4	2	2.36	2	109.4	2	-9	9	-9	9	183.05	6	-9	9	2274.3	2	7.6032	2	2372	3	-9	-9	-9	-9	-9
105	2	3500.0	34.711	2	34.709	2	1.320	1.058	27.809	0.002	0.0	2	32.6	2	2.31	2	118.2	2	-9	9	-9	9	189.00	2	1071	2	2275.6	2	7.6106	2	-9	5	-9	-9	-9	-9	-9
104	2	3749.6	34.709	2	34.709	2	1.072	0.791	27.825	0.002	0.0	2	32.6	2	2.32	2	124.3	2	-9	9	-9	9	195.54	2	-9	9	2274.8	2	7.6154	2	2378	2	-9	-9	-9	-9	-9
103	2	3999.6	34.709	2	34.708	2	0.908	0.606	27.837	0.004	0.0	2	32.4	2	2.34	2	126.1	2	-9	9	-9	9	200.10	2	-9	9	2274.5	2	7.6179	2	2378	2	-9	-9	-9	-9	-9
102	2	3998.6	34.709	2	34.708	2	0.907	0.605	27.837	0.004	0.0	2	32.4	2	2.34	2	125.9	2	-9	9	-9	9	200.37	2	1052	2	2273.8	2	7.6183	2	2379	2	-9	-9	-9	-9	-9
101	2	4095.2	34.709	2	34.708	2	0.879	0.567	27.839	0.003	0.0	2	32.5	2	2.33	2	128.2	2	-9	9	-9	9	201.31	2	1053	2	2273.3	2	7.6183	2	2380	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 46 DATE 3/12/94 LATITUDE 46°30.0'S Btm Depth: 3868
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.5	34.142	2	34.142	2	10.886	10.885	26.128	0.121	0.2	2	13.0	2	1.05	2	0.5	2	3.785	2	1.826	2	272.21	2	520	2	2067.3	2	7.8702	2	2268	6	-9	-9	-9	-9	-9
135	2	23.9	34.145	2	34.145	2	10.717	10.715	26.160	0.120	0.2	2	12.8	2	1.05	2	0.6	2	3.772	2	1.838	2	272.80	2	522	2	2073.1	3	7.8685	2	-9	5	-9	-9	-9	-9	-9
134	2	49.5	34.147	2	34.148	2	10.493	10.487	26.202	0.096	0.2	2	13.1	2	1.07	2	0.6	2	3.758	2	1.808	2	273.35	2	526	2	2072.0	3	7.8684	2	2269	2.	-9	-9	-9	-9	-9
133	2	74.0	34.159	2	34.157	2	8.490	8.482	26.540	0.084	0.2	2	13.8	2	1.16	2	1.4	2	-9	9	-9	9	285.26	2	566	2	2084.5	3	7.8392	2	2268	2	-9	-9	-9	-9	-9
132	2	92.6	34.166	2	34.168	2	7.917	7.908	26.633	0.049	0.2	2	14.6	2	1.20	2	1.6	2	4.193	2	1.992	2	284.33	2	586	2	2090.2	3	7.8265	2	2263	2	-9	-9	-9	-9	-9
131	2	123.5	34.195	2	34.198	2	7.212	7.201	26.757	0.032	0.4	2	16.6	2	1.26	2	2.4	2	4.317	2	2.044	2	278.89	2	621	2	2101.7	2	7.8034	2	2263	2	-9	-9	-9	-9	-9
130	2	148.8	34.228	2	34.228	2	6.939	6.926	26.821	0.026	0.0	2	17.6	2	1.33	2	3.0	2	4.037	2	1.948	2	275.55	2	642	2	2109.6	2	7.7934	2	2264	3	-9	-9	-9	-9	-9
129	2	204.3	34.294	2	34.293	2	6.758	6.740	26.898	0.019	0.0	2	19.3	2	1.40	2	4.3	2	-9	1	-9	1	268.65	2	671	2	2117.1	2	7.7751	2	2273	2	-9	-9	-9	-9	-9
128	2	246.8	34.316	2	34.317	2	6.665	6.643	26.929	0.016	0.0	2	19.7	2	1.46	2	5.2	2	3.888	2	1.830	2	267.37	2	686	2	2122.2	2	7.7695	2	2276	2	-9	-9	-9	-9	-9
127	2	296.6	34.309	2	34.310	2	6.483	6.457	26.948	0.015	0.0	2	20.4	2	1.43	2	6.0	2	3.524	2	1.647	2	267.29	2	692	2	2123.5	2	7.7667	2	2271	2	-9	-9	-9	-9	-9
126	2	351.8	34.307	2	34.310	2	6.361	6.329	26.962	0.013	0.0	2	20.3	2	1.46	2	6.0	2	-9	1	-9	1	266.69	2	699	2	2125.3	2	7.7607	2	2272	2	-9	-9	-9	-9	-9
125	2	397.1	34.304	2	34.307	2	6.257	6.222	26.974	0.011	0.0	2	20.9	2	1.52	2	6.4	2	3.498	2	1.620	2	266.17	2	707	2	2123.3	2	7.7587	2	2269	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	496.8	34.297	2	34.305	3	6.034	5.991	26.998	0.010	0.0	2	21.1	2	1.53	2	6.8	2	3.132	6	1.451	6	265.77	2	714	2	2127.3	2	7.7523	2	2276	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.5	34.280	2	34.281	2	5.727	5.675	27.024	0.008	0.0	2	23.0	2	1.60	2	9.0	2	2.909	2	1.339	2	263.15	2	728	2	2134.5	2	7.7439	2	2282	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	698.9	34.265	2	34.266	2	5.372	5.313	27.056	0.010	0.0	2	24.5	2	1.72	2	12.0	2	2.554	2	1.188	2	253.68	2	768	2	2142.9	2	7.7230	2	2277	2	-9	-9	-9	-9	-9
118	2	800.7	34.261	2	34.262	2	4.925	4.860	27.105	0.010	0.0	2	26.9	2	1.89	2	16.5	2	1.991	2	0.917	2	239.25	2	833	2	2157.9	2	7.6946	2	2280	2	-9	-9	-9	-9	-9
117	2	908.9	34.273	2	34.273	2	4.469	4.398	27.166	0.010	0.0	2	28.8	2	2.07	2	23.5	2	-9	9	-9	9	223.53	2	899	3	2176.2	2	7.6622	2	2286	2	-9	-9	-9	-9	-9
116	2	999.3	34.297	2	34.298	2	4.115	4.039	27.223	0.009	0.0	2	30.6	2	2.09	2	29.8	2	0.868	2	0.395	2	210.78	2	970	2	2187.4	2	7.6371	2	2292	6	-9	-9	-9	-9	-9
115	2	1092.5	34.324	2	34.323	2	3.743	3.662	27.283	0.008	0.0	2	31.5	2	2.20	2	36.7	2	-9	9	-9	9	200.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1196.2	34.365	2	34.365	2	3.395	3.308	27.350	0.008	0.0	2	32.9	2	2.31	2	46.0	2	0.420	2	0.212	2	188.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1401.4	34.458	2	34.458	2	2.960	2.861	27.465	0.008	0.0	2	34.5	2	2.40	2	64.3	2	-9	9	-9	9	166.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1602.9	34.531	2	34.531	2	2.630	2.518	27.553	0.007	0.0	2	33.7	2	2.39	2	72.7	2	0.121	2	0.058	2	167.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1792.1	34.594	2	34.594	2	2.449	2.324	27.620	0.007	0.0	2	33.5	2	2.37	2	79.7	2	-9	9	-9	9	165.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1993.3	34.642	2	34.642	2	2.287	2.146	27.673	0.006	0.0	2	33.4	2	2.36	2	87.9	2	0.019	2	0.012	2	165.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2249.4	34.676	2	34.675	2	2.083	1.923	27.718	0.005	0.0	2	32.7	2	2.27	2	98.2	2	-9	9	-9	9	166.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2500.4	34.692	2	34.691	2	1.915	1.736	27.746	0.004	0.0	2	33.1	2	2.31	2	104.9	2	0.004	2	0.001	2	169.24	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2742.7	34.700	2	34.700	2	1.773	1.574	27.764	0.004	0.0	2	33.0	2	2.30	2	107.7	2	-9	9	-9	9	173.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2995.1	34.706	2	34.705	2	1.668	1.448	27.778	0.003	0.0	2	32.3	2	2.26	2	110.1	2	-0.001	2	-0.001	2	177.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3250.4	34.710	2	34.709	2	1.567	1.324	27.790	0.003	0.0	2	32.4	2	2.24	2	113.0	2	-9	9	-9	9	182.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3499.9	34.711	2	34.710	2	1.371	1.108	27.806	0.003	0.0	2	32.3	2	2.26	2	117.1	2	-9	9	-9	9	188.23	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3750.4	34.710	2	34.709	2	1.088	0.807	27.825	0.002	0.0	2	32.5	2	2.25	2	122.6	2	0.000	6	-0.001	6	195.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3751.0	34.710	2	34.707	2	1.089	0.808	27.825	0.002	0.0	2	32.5	2	2.26	2	122.8	2	-9	9	-9	9	195.21	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3912.4	34.709	2	34.707	2	0.872	0.580	27.838	0.003	0.0	2	31.8	2	2.19	2	129.4	2	-0.001	2	0.001	2	200.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 47 DATE 3/12/94 LATITUDE 45°59.6'S Btm Depth: 3907
CAST 1 LONGITUDE 102°60.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	12.0	34.123	2	34.124	2	11.246	11.245	26.048	0.100	0.2	2	12.2	2	1.02	2	4.5	2	3.669	2	1.807	2	270.06	2	509	2	2066.4	2	7.8730	2	2268	2	1.90	51.6	-9	0.096	0.030
135	2	24.0	34.123	2	34.124	2	11.236	11.233	26.051	0.100	0.2	2	13.2	2	1.03	2	4.2	2	3.684	2	1.799	2	270.20	2	515	2	-9	9	7.8725	2	-9	9	1.90	47.6	5.6	0.095	0.034
134	2	51.4	34.127	2	34.127	2	11.114	11.108	26.076	0.098	0.2	2	12.8	2	0.99	2	4.1	2	3.577	2	1.789	2	270.27	2	519	2	-9	9	7.8722	2	-9	9	1.90	47.5	4.5	0.100	0.046
133	2	76.3	34.152	2	34.153	2	8.868	8.860	26.477	0.068	0.2	2	14.3	2	1.09	2	4.8	2	4.211	2	1.996	2	282.68	2	-9	9	-9	9	7.8412	2	-9	9	1.80	51.4	-9	0.137	0.073
132	2	101.4	34.162	2	34.163	2	7.833	7.824	26.642	0.050	0.3	2	15.3	2	1.21	2	5.9	2	4.323	2	2.038	2	282.79	2	-9	9	-9	9	7.8239	2	-9	9	1.70	54.0	4.2	0.140	0.101
131	2	124.9	34.191	2	34.190	2	7.310	7.298	26.740	0.039	0.4	2	16.1	2	1.25	2	6.2	2	4.075	2	1.947	2	279.94	2	615	2	-9	9	7.8074	2	-9	9	-9	-9	-9	0.101	0.089
130	2	150.2	34.235	2	34.235	2	7.035	7.021	26.813	0.026	0.1	2	17.7	2	1.28	2	6.4	2	4.311	2	2.045	2	277.07	2	-9	9	-9	9	7.7983	2	-9	9	1.60	-9	-9	0.069	0.052
129	2	202.4	34.293	2	34.295	2	6.776	6.758	26.895	0.023	0.0	2	19.5	2	1.34	2	8.1	2	4.105	2	1.901	2	270.31	2	-9	9	-9	9	7.7777	2	-9	9	-9	37.6	-9	0.016	0.011
128	2	246.2	34.308	2	34.309	2	6.636	6.613	26.926	0.018	0.0	2	19.7	2	1.42	2	9.2	2	3.917	2	1.818	2	268.02	2	-9	9	-9	9	7.7692	2	-9	9	-9	-9	-9	-9	-9
127	2	301.6	34.304	2	34.304	2	6.456	6.429	26.947	0.014	0.0	2	21.2	2	1.47	2	9.9	2	3.678	6	1.722	6	267.33	2	696	2	-9	9	7.7641	2	-9	9	1.40	47.8	4.0	-9	-9
126	2	351.2	34.303	2	34.305	2	6.336	6.305	26.962	0.014	0.0	2	20.3	2	1.51	2	9.9	2	-9	1	-9	1	266.91	2	-9	9	-9	9	7.7607	2	-9	9	-9	-9	-9	-9	-9
125	2	399.2	34.302	2	34.302	2	6.231	6.196	26.976	0.014	0.0	2	20.6	2	1.49	2	10.4	2	3.494	2	1.578	2	266.66	2	-9	9	-9	9	7.7579	2	-9	9	1.40	41.3	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	499.1	34.295	2	34.295	2	6.003	5.959	27.000	0.013	0.0	2	22.3	2	1.54	2	11.5	2	3.193	6	1.469	6	266.54	2	-9	9	-9	9	7.7540	2	-9	9	1.40	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	603.1	34.277	2	34.278	2	5.699	5.648	27.026	0.011	0.0	2	22.2	2	1.64	2	12.7	2	3.006	2	1.374	2	260.83	2	732	2	-9	9	7.7420	2	-9	9	1.40	38.8	4.3	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.4	34.263	2	34.266	2	5.339	5.281	27.058	0.009	0.0	2	24.9	2	1.75	2	15.2	2	2.473	2	1.115	2	253.99	2	-9	9	-9	9	7.7229	2	-9	9	1.30	-9	-9	-9	-9
118	2	805.8	34.266	2	34.265	2	4.901	4.836	27.112	0.010	0.0	2	26.7	2	1.91	2	21.0	2	1.789	2	0.815	2	236.02	2	-9	9	-9	9	7.6891	2	-9	9	1.20	38.7	-9	-9	-9
117	2	899.6	34.277	2	34.279	2	4.521	4.450	27.164	0.010	0.0	2	29.1	2	1.99	2	27.1	2	1.295	2	0.602	2	222.23	2	-9	9	-9	9	7.6614	2	-9	9	1.10	-9	-9	-9	-9
116	2	1001.9	34.300	2	34.300	2	4.052	3.976	27.232	0.010	0.0	2	30.6	2	2.11	2	34.2	2	0.927	6	0.423	6	203.47	2	976	2	-9	9	7.6364	2	-9	9	1.00	38.6	3.2	-9	-9
115	2	1099.3	34.326	2	34.326	2	3.648	3.567	27.293	0.008	0.0	2	32.1	2	2.22	2	40.9	2	-9	9	-9	9	201.38	2	-9	9	-9	9	7.6162	2	-9	9	0.80	-9	-9	-9	-9
114	2	1198.3	34.364	2	34.363	2	3.372	3.286	27.351	0.009	0.0	2	33.3	2	2.28	2	48.2	2	0.424	2	0.203	2	190.15	2	-9	9	-9	9	7.5810	2	-9	9	0.80	-9	-9	-9	-9
113	2	1398.6	34.456	2	34.455	2	2.967	2.868	27.463	0.008	0.0	2	35.0	2	2.49	2	64.9	2	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1598.8	34.534	2	34.534	2	2.703	2.590	27.549	0.007	0.0	2	35.2	2	2.47	2	79.0	2	0.044	2	0.019	2	156.06	2	-9	9	-9	9	7.5532	2	-9	9	0.40	-9	-9	-9	-9
111	2	1800.7	34.593	2	34.593	2	2.461	2.335	27.619	0.006	0.0	2	34.6	2	2.44	2	86.6	2	0.031	6	0.010	6	160.11	2	-9	9	-9	9	7.5627	2	-9	9	-9	-9	-9	-9	-9
110	2	2001.1	34.641	2	34.640	2	2.293	2.152	27.672	0.006	0.0	2	33.8	2	2.33	2	89.5	2	-9	9	-9	9	164.43	2	-9	9	-9	9	7.5745	2	-9	9	0.40	41.9	-9	-9	-9
109	2	2248.2	34.678	2	34.677	2	2.107	1.947	27.718	0.005	0.0	2	33.6	2	2.31	2	94.8	2	0.007	2	0.001	2	168.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2501.0	34.695	2	34.694	2	1.913	1.734	27.748	0.004	0.0	2	33.4	2	2.36	2	103.2	2	-9	9	-9	9	170.38	6	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
107	2	2751.0	34.701	2	34.700	2	1.746	1.548	27.767	0.004	0.0	2	33.1	2	2.30	2	110.1	2	-9	9	-9	9	173.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2993.4	34.706	2	34.705	2	1.651	1.431	27.779	0.003	0.0	2	32.8	2	2.29	2	113.0	2	-0.004	2	-0.001	2	177.68	2	-9	9	-9	9	-9	9	-9	9	0.40	38.4	3.5	-9	-9
105	2	3251.6	34.709	2	34.708	2	1.555	1.312	27.790	0.003	0.0	2	32.7	2	2.32	2	112.5	2	-9	9	-9	9	182.38	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3499.2	34.710	2	34.709	2	1.341	1.079	27.807	0.003	0.0	2	32.3	2	2.30	2	115.7	2	-9	9	-9	9	186.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3752.0	34.709	2	34.707	2	1.145	0.862	27.821	0.004	0.0	2	33.0	2	2.31	2	121.7	2	-0.004	2	0.001	2	192.84	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3751.5	34.709	2	34.707	2	1.145	0.862	27.820	0.004	0.0	2	32.7	2	2.28	2	123.6	2	-9	9	-9	9	192.94	2	-9	9	-9	9	-9	9	-9	9	0.40	39.7	-9	-9	-9
101	2	3971.6	34.709	2	34.707	2	0.950	0.650	27.834	0.003	0.0	2	32.6	2	2.25	2	128.9	2	-0.003	2	0.002	2	198.96	2	-9	9	-9	9	-9	9	-9	9	0.40	38.0	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 48 DATE 3/12/94 LATITUDE 45°28.9'S Btm Depth: 3638
CAST 1 LONGITUDE 102°58.3'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.6	34.104	2	34.104	2	11.939	11.938	25.905	-9	0.2	2	12.8	2	1.06	2	5.6	2	-9	9	-9	9	267.16	2	507	2	2061.0	2	-9	9	2252	2	-9	-9	-9	-9	-9
123	2	23.3	34.105	2	34.105	2	11.911	11.908	25.911	-9	0.2	2	12.7	2	1.05	2	5.7	2	-9	9	-9	9	269.01	2	508	2	2060.7	2	-9	9	2265	2	-9	-9	-9	-9	-9
122	2	50.2	34.126	2	-9	5	11.348	11.342	26.033	-9	0.2	2	13.4	2	1.07	2	5.2	2	-9	9	-9	9	269.01	2	515	2	2064.6	2	-9	9	2264	2	-9	-9	-9	-9	-9
121	2	104.0	34.149	2	34.151	2	8.116	8.106	26.590	-9	0.3	2	14.3	2	1.14	2	6.2	2	-9	9	-9	9	281.97	2	576	2	2083.7	2	-9	9	2267	2	-9	-9	-9	-9	-9
120	2	153.5	34.215	2	34.212	2	7.224	7.210	26.771	-9	0.2	2	17.5	2	1.32	2	7.4	2	-9	9	-9	9	270.26	2	645	2	2104.0	2	-9	9	2267	2	-9	-9	-9	-9	-9
119	2	195.1	34.298	2	34.301	2	6.931	6.913	26.878	-9	0.0	2	20.1	2	1.43	2	9.1	2	-9	9	-9	9	258.40	2	698	2	2121.7	3	-9	9	2273	2	-9	-9	-9	-9	-9
118	2	301.3	34.303	2	34.305	2	6.440	6.413	26.949	-9	0.0	2	20.8	2	1.40	2	10.5	2	-9	9	-9	9	265.62	2	695	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	400.0	34.301	2	34.302	2	6.183	6.148	26.982	-9	0.0	2	21.4	2	1.48	2	11.8	2	-9	9	-9	9	266.09	2	710	2	2124.8	3	-9	9	2278	2	-9	-9	-9	-9	-9
116	2	497.7	34.298	2	34.298	2	5.975	5.932	27.006	-9	0.0	2	22.1	2	1.55	2	12.5	2	-9	9	-9	9	263.13	2	718	2	2130.1	3	-9	9	2277	2	-9	-9	-9	-9	-9
115	2	598.0	34.282	2	34.282	2	5.713	5.662	27.027	-9	0.0	2	23.1	2	1.65	2	14.3	2	-9	9	-9	9	259.41	2	740	2	2135.3	3	-9	9	-9	5	-9	-9	-9	-9	-9
114	2	699.5	34.267	2	34.267	2	5.363	5.304	27.058	-9	0.0	2	25.1	2	1.78	2	16.6	2	-9	9	-9	9	251.36	2	-9	9	2143.0	3	-9	9	2280	2	-9	-9	-9	-9	-9
113	2	801.0	34.259	2	34.260	2	4.963	4.898	27.100	-9	0.0	2	26.7	2	1.88	2	20.2	2	-9	9	-9	9	240.83	2	826	2	2156.8	3	-9	9	2282	2	-9	-9	-9	-9	-9
112	3	900.2	34.272	2	-9	5	4.534	4.463	27.158	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1000.0	34.302	2	34.301	2	4.085	4.009	27.230	-9	0.0	2	30.4	2	2.15	2	35.2	2	-9	9	-9	9	-9	1	-9	9	2182.9	3	-9	9	2295	6	-9	-9	-9	-9	-9
110	2	1100.2	34.332	2	34.332	2	3.687	3.606	27.294	-9	0.0	2	32.6	2	2.28	2	43.2	2	-9	9	-9	9	-9	1	1041	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	3	1201.2	34.371	2	-9	9	3.360	3.274	27.358	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	3	1501.0	34.498	2	-9	9	2.843	2.737	27.508	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	1804.7	34.591	2	34.590	2	2.467	2.340	27.617	-9	0.0	2	34.3	2	2.48	2	84.4	2	-9	9	-9	9	161.16	2	1196	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2108.2	34.658	2	34.656	2	2.207	2.058	27.693	-9	0.0	2	33.7	2	2.43	2	93.0	2	-9	9	-9	9	165.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2397.6	34.687	2	34.687	2	1.979	1.808	27.736	-9	0.0	2	33.2	2	2.34	2	103.5	2	-9	9	-9	9	168.52	2	1138	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2703.5	34.698	2	34.698	2	1.796	1.600	27.761	-9	0.0	2	33.6	2	2.36	2	110.5	2	-9	9	-9	9	172.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3001.2	34.705	2	34.704	2	1.648	1.428	27.779	-9	0.0	2	32.9	2	2.31	2	111.6	2	-9	9	-9	9	177.84	2	1090	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3391.3	34.707	2	34.707	2	1.411	1.158	27.799	-9	0.0	2	33.1	2	2.33	2	117.0	2	-9	9	-9	9	184.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3784.6	34.708	2	34.707	2	1.179	0.891	27.818	-9	0.0	2	33.4	2	2.36	2	123.8	2	-9	9	-9	9	191.80	2	1055	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 49 DATE 3/13/94 LATITUDE 45°0.5'S Btm Depth: 3757
CAST 1 LONGITUDE 102°59.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.3	34.120	2	34.119	2	12.324	12.322	25.844	-9	0.2	2	12.5	2	1.06	2	2.1	2	3.491	2	1.735	2	-9	1	-9	9	2064.1	2	7.8814	2	2270	2	-9	-9	-9	-9	-9
123	4	24.7	34.119	2	-9	9	12.323	12.320	25.844	-9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	51.3	34.120	2	34.119	2	12.323	12.316	25.845	-9	0.2	2	12.4	2	1.00	2	2.0	2	3.509	2	1.743	2	264.40	2	-9	9	2063.1	2	7.8808	2	2265	2	-9	-9	-9	-9	-9
121	2	102.0	34.149	2	34.145	2	8.416	8.405	26.545	-9	0.2	2	13.9	2	1.11	2	2.3	2	4.212	2	2.005	2	283.00	2	-9	9	2083.1	2	7.8378	2	2262	2	-9	-9	-9	-9	-9
120	2	202.6	34.275	2	34.275	2	6.844	6.825	26.872	-9	0.0	2	18.8	2	1.37	2	4.8	2	4.157	2	1.932	2	271.18	2	-9	9	2114.6	2	7.7804	2	2270	2	-9	-9	-9	-9	-9
119	2	302.3	34.318	2	34.317	2	6.571	6.544	26.943	-9	0.0	2	20.6	2	1.48	2	6.7	2	3.726	2	1.746	2	265.97	2	-9	9	2126.1	2	7.7648	2	2276	2	-9	-9	-9	-9	-9
118	2	397.4	34.307	2	34.307	2	6.316	6.281	26.969	-9	0.0	2	21.4	2	1.51	2	7.6	2	3.506	2	1.619	2	265.67	2	-9	9	2128.6	2	7.7574	2	2277	2	-9	-9	-9	-9	-9
117	2	500.6	34.296	2	34.296	2	6.034	5.990	26.998	-9	0.0	2	22.0	2	1.51	2	8.6	2	-9	1	-9	1	266.80	2	-9	9	2129.3	2	7.7540	2	2275	2	-9	-9	-9	-9	-9
116	2	596.7	34.281	2	34.282	2	5.781	5.729	27.019	-9	0.0	2	22.8	2	1.61	2	9.6	2	3.116	2	1.402	2	265.20	2	-9	9	2130.8	2	7.7464	2	2280	2	-9	-9	-9	-9	-9
115	2	702.6	34.268	2	34.268	2	5.465	5.406	27.047	-9	0.0	2	24.8	2	1.71	2	11.3	2	2.560	2	1.175	2	256.76	2	-9	9	2139.8	2	7.7288	2	2281	2	-9	-9	-9	-9	-9
114	2	804.5	34.266	2	34.265	2	5.076	5.010	27.092	-9	0.0	2	26.7	2	1.84	2	15.6	2	2.138	2	0.987	2	242.12	2	-9	9	2153.5	2	7.7008	2	2285	2	-9	-9	-9	-9	-9
113	2	901.2	34.278	2	34.277	2	4.613	4.542	27.154	-9	0.0	2	28.9	2	1.96	2	23.0	2	1.407	2	0.654	2	224.10	2	-9	9	2171.8	2	7.6652	2	2291	2	-9	-9	-9	-9	-9
112	2	983.1	34.295	2	34.294	2	4.257	4.181	27.206	-9	0.0	2	30.9	2	2.12	2	28.7	2	0.707	2	0.343	2	210.10	2	-9	9	2185.0	2	7.6407	2	2300	2	-9	-9	-9	-9	-9
111	2	1104.2	34.326	2	34.326	2	3.703	3.622	27.288	-9	0.0	2	32.5	2	2.26	2	38.5	2	0.550	2	0.264	2	199.50	2	-9	9	2203.8	2	7.6135	2	2302	2	-9	-9	-9	-9	-9
110	2	1199.7	34.368	2	34.368	2	3.453	3.366	27.347	-9	0.0	2	34.8	2	2.34	2	47.1	2	0.270	2	0.132	2	185.55	2	-9	9	2218.8	2	7.5917	2	2310	2	-9	-9	-9	-9	-9
109	2	1400.8	34.462	2	34.462	2	2.986	2.887	27.466	-9	0.0	2	33.1	2	2.43	2	65.3	2	0.088	4	0.049	2	162.44	2	-9	9	2248.3	2	7.5563	2	2333	2	-9	-9	-9	-9	-9
108	4	1699.6	34.564	2	-9	9	2.573	2.454	27.585	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	4	2002.6	34.641	4	34.186	4	2.277	2.136	27.674	-9	0.1	4	16.4	4	1.21	4	7.4	4	3.312	4	1.641	4	-9	1	-9	9	2088.4	4	-9	5	-9	5	-9	-9	-9	-9	-9
106	2	2301.5	34.683	2	34.682	2	2.047	1.883	27.727	-9	0.0	2	33.9	2	2.35	2	98.2	2	0.003	2	0.005	2	168.36	2	-9	9	2272.8	2	7.5835	2	2369	2	-9	-9	-9	-9	-9
105	2	2602.1	34.698	2	34.698	2	1.830	1.643	27.757	-9	0.0	2	33.6	2	2.27	2	108.0	2	0.002	2	0.004	2	172.50	2	-9	9	2278.6	2	7.5923	2	2375	2	-9	-9	-9	-9	-9
104	4	2898.8	34.704	2	-9	9	1.673	1.462	27.775	-9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3197.3	34.708	2	34.705	2	1.557	1.320	27.788	-9	0.0	2	33.6	2	2.31	2	113.2	2	0.052	4	0.149	4	181.56	2	-9	9	2279.1	2	7.6000	2	2381	2	-9	-9	-9	-9	-9
102	2	3499.9	34.707	2	34.708	2	1.305	1.043	27.807	-9	0.0	2	33.5	2	2.33	2	119.9	2	-0.003	2	0.001	2	187.42	2	-9	9	2277.6	2	7.6105	2	2383	2	-9	-9	-9	-9	-9
101	2	3802.3	34.708	2	-9	5	1.169	0.880	27.819	-9	0.0	2	34.1	2	2.40	2	126.6	2	0.007	2	0.001	2	192.26	2	-9	9	2277.0	2	-9	9	2385	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 50 DATE 3/13/94 LATITUDE 44°29.0'S Btm Depth: 3900
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.7	34.053	2	34.053	2	13.064	13.063	25.647	-9	0.2	2	12.0	2	0.99	2	1.9	2	-9	9	-9	9	260.03	2	494	2	2052.1	2	-9	9	2250	2	-9	-9	-9	-9	-9
123	2	24.6	34.054	2	34.053	2	13.065	13.062	25.648	-9	0.2	2	11.9	2	0.99	2	1.4	2	-9	9	-9	9	260.34	2	496	2	2055.6	2	-9	9	2259	2	-9	-9	-9	-9	-9
122	2	49.6	34.089	2	34.080	2	12.754	12.747	25.737	-9	0.2	2	12.1	2	0.98	2	1.6	2	-9	9	-9	9	261.85	2	498	2	2058.1	2	-9	9	2262	2	-9	-9	-9	-9	-9
121	2	98.9	34.091	2	34.095	2	9.650	9.639	26.303	-9	0.1	2	13.0	2	1.09	2	1.9	2	-9	9	-9	9	284.98	2	539	2	2072.6	2	-9	9	2260	2	-9	-9	-9	-9	-9
120	2	148.5	34.151	2	34.152	2	7.814	7.800	26.637	-9	0.4	2	15.1	2	1.24	2	2.4	2	-9	9	-9	9	278.41	2	599	2	2092.8	2	-9	9	2265	2	-9	-9	-9	-9	-9
119	2	200.9	34.240	2	34.235	2	7.003	6.984	26.822	-9	0.0	2	18.3	2	1.36	2	4.0	2	-9	9	-9	9	268.99	2	660	2	2108.8	2	-9	9	2264	2	-9	-9	-9	-9	-9
118	2	299.1	34.302	2	34.301	2	6.495	6.468	26.940	-9	0.0	2	20.2	2	1.45	2	6.7	2	-9	9	-9	9	266.17	2	697	2	2124.0	2	-9	9	2273	2	-9	-9	-9	-9	-9
117	2	400.0	34.306	2	34.306	2	6.240	6.205	26.978	-9	0.0	2	21.1	2	1.55	2	8.1	2	-9	9	-9	9	265.07	2	710	2	2127.1	2	-9	9	2280	2	-9	-9	-9	-9	-9
116	2	496.1	34.297	2	34.297	2	6.023	5.979	27.000	-9	0.0	2	21.5	2	1.59	2	8.7	2	-9	9	-9	9	265.65	2	710	2	2127.4	2	-9	9	2267	2	-9	-9	-9	-9	-9
115	2	599.3	34.279	2	34.280	2	5.731	5.680	27.023	-9	0.0	2	22.4	2	1.64	2	10.0	2	-9	9	-9	9	263.54	2	728	2	2132.3	2	-9	9	2279	2	-9	-9	-9	-9	-9
114	2	700.6	34.261	2	34.263	2	5.423	5.364	27.047	-9	0.0	2	23.8	2	1.65	2	11.3	2	-9	9	-9	9	261.14	2	748	2	2136.8	2	-9	9	2277	2	-9	-9	-9	-9	-9
113	2	800.6	34.259	2	34.260	2	5.041	4.975	27.091	-9	0.0	2	25.9	2	1.85	2	15.9	2	-9	9	-9	9	242.77	2	818	2	2159.1	2	-9	9	2266	2	-9	-9	-9	-9	-9
112	2	1001.3	34.287	2	34.286	2	4.223	4.146	27.204	-9	0.0	2	30.1	2	2.16	2	28.9	2	-9	9	-9	9	214.71	2	952	2	2185.1	2	-9	9	2289	2	-9	-9	-9	-9	-9
111	2	1201.7	34.362	2	34.361	2	3.493	3.405	27.338	-9	0.0	2	33.2	2	2.40	2	46.4	2	-9	9	-9	9	185.67	2	1099	2	2235.4	2	-9	9	2310	2	-9	-9	-9	-9	-9
110	2	1402.3	34.456	2	34.453	2	3.080	2.980	27.453	-9	0.0	2	35.2	2	2.52	2	65.6	2	-9	9	-9	9	158.86	2	1212	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1697.1	34.561	2	34.560	2	2.589	2.469	27.581	-9	0.0	2	34.5	2	2.50	2	82.6	2	-9	9	-9	9	162.54	2	1215	2	2266.0	2	-9	9	2347	2	-9	-9	-9	-9	-9
108	2	2004.6	34.640	2	34.639	2	2.286	2.145	27.672	-9	0.0	2	33.5	2	2.42	2	90.7	2	-9	9	-9	9	164.04	2	1163	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2303.6	34.682	2	34.682	2	2.087	1.923	27.723	-9	0.0	2	33.0	2	2.40	2	96.9	2	-9	9	-9	9	169.31	2	1142	2	2273.3	2	-9	9	2361	2	-9	-9	-9	-9	-9
106	2	2606.4	34.698	2	34.697	2	1.839	1.652	27.756	-9	0.0	2	32.9	2	2.34	2	108.0	2	-9	9	-9	9	172.10	2	1117	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2894.6	34.703	2	34.703	2	1.693	1.482	27.773	-9	0.0	2	32.8	2	2.33	2	113.6	2	-9	9	-9	9	175.43	2	1110	2	2283.2	2	-9	9	2377	2	-9	-9	-9	-9	-9
104	2	3179.4	34.708	2	34.706	2	1.570	1.335	27.788	-9	0.0	2	32.8	2	2.32	2	114.5	2	-9	9	-9	9	180.68	2	1093	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3495.7	34.708	2	34.707	2	1.328	1.067	27.806	-9	0.0	2	32.6	2	2.35	2	120.7	2	-9	9	-9	9	186.68	2	1072	2	2280.5	2	-9	9	2382	2	-9	-9	-9	-9	-9
102	2	3698.7	34.708	2	34.707	2	1.183	0.904	27.817	-9	0.0	2	32.5	2	2.30	2	124.6	2	-9	9	-9	9	191.39	2	1059	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3843.2	34.708	2	34.708	2	1.118	0.826	27.822	-9	0.0	2	32.2	2	2.26	2	128.0	2	-9	9	-9	9	194.64	2	1053	2	2278.6	2	-9	9	2383	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 51 DATE 3/13/94 LATITUDE 43°59.1'S Btm Depth: 3930
CAST 3 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
324	2	9.1	34.049	2	-9	9	13.187	13.185	25.619	-9	0.2	2	12.2	2	1.01	2	0.6	2	3.347	2	1.665	2	259.38	2	-9	9	2055.8	2	-9	9	2266	2	-9	-9	-9	-9	-9
323	2	25.1	34.050	2	34.049	2	13.149	13.146	25.628	-9	0.2	2	12.0	2	1.00	2	0.6	2	3.357	2	1.680	2	258.90	2	-9	9	-9	9	7.8887	2	-9	9	-9	70.5	-9	-9	-9
322	2	50.4	34.064	2	34.064	2	12.983	12.976	25.673	-9	0.2	2	11.9	2	0.99	2	0.5	2	3.274	2	1.636	2	261.65	2	-9	9	-9	9	7.8879	2	-9	9	-9	71.1	-9	-9	-9
321	2	97.6	34.103	2	34.102	2	9.447	9.437	26.345	-9	0.1	2	13.0	2	1.04	2	1.1	2	4.161	2	2.022	2	284.72	2	-9	9	-9	9	7.8534	2	-9	9	-9	57.9	4.6	-9	-9
320	2	147.8	34.137	2	34.139	2	7.905	7.891	26.612	-9	0.3	2	14.7	2	1.19	2	1.5	2	4.275	2	2.039	2	281.81	2	-9	9	-9	9	7.8252	2	-9	9	-9	-9	4.2	-9	-9
319	2	199.1	34.221	2	34.223	2	7.134	7.115	26.789	-9	0.1	2	17.8	2	1.35	2	2.9	2	4.148	2	1.965	2	271.23	2	-9	9	-9	9	7.7885	2	-9	9	-9	57.3	-9	-9	-9
318	2	303.6	34.301	2	34.302	2	6.517	6.490	26.937	-9	0.0	2	20.3	2	1.48	2	5.6	2	3.817	2	1.779	2	266.95	2	-9	9	-9	9	7.7644	2	-9	9	-9	59.4	3.0	-9	-9
317	2	404.4	34.304	2	34.304	2	6.210	6.174	26.981	-9	0.0	2	21.5	2	1.52	2	6.9	2	3.295	2	1.557	2	265.08	2	-9	9	-9	9	7.7557	2	-9	9	-9	57.4	-9	-9	-9
316	2	501.1	34.296	2	34.292	2	5.989	5.945	27.003	-9	0.0	2	21.9	2	1.57	2	7.8	2	-9	1	-9	1	266.23	2	-9	9	-9	9	7.7542	2	-9	9	-9	-9	-9	-9	-9
315	2	602.5	34.273	2	34.274	2	5.685	5.634	27.024	-9	0.0	2	22.9	2	1.62	2	8.9	2	3.165	2	1.479	2	266.71	2	-9	9	-9	9	7.7471	2	-9	9	-9	58.4	3.1	-9	-9
314	2	702.0	34.262	2	34.262	2	5.375	5.316	27.053	-9	0.0	2	24.4	2	1.75	2	11.0	2	2.519	2	1.190	2	257.88	2	-9	9	-9	9	7.7281	2	-9	9	-9	-9	-9	-9	-9
313	2	799.5	34.247	2	34.247	2	4.938	4.873	27.093	-9	0.0	2	25.7	2	1.81	2	14.8	2	2.457	2	1.138	2	250.15	2	-9	9	-9	9	7.7079	2	-9	9	-9	50.1	-9	-9	-9
312	2	1002.7	34.294	2	34.294	2	4.186	4.109	27.213	-9	0.0	2	30.6	2	2.12	2	30.0	2	0.742	2	0.353	2	209.68	2	-9	9	-9	9	7.6381	2	-9	9	-9	41.7	2.9	-9	-9
311	2	1199.6	34.367	2	34.366	2	3.475	3.388	27.343	-9	0.0	2	33.7	2	2.39	2	47.4	2	0.207	2	0.102	2	183.95	2	-9	9	-9	9	7.5891	2	-9	9	-9	-9	-9	-9	-9
310	2	1400.8	34.470	2	34.469	2	3.046	2.947	27.467	-9	0.0	2	35.8	2	2.56	2	68.6	2	0.038	2	0.022	2	153.96	2	-9	9	-9	9	7.5471	2	-9	9	-9	-9	-9	-9	-9
309	2	1699.7	34.564	2	34.563	2	2.590	2.471	27.584	-9	0.0	2	34.7	2	2.49	2	84.0	2	0.022	2	0.013	2	156.06	2	-9	9	-9	9	7.5557	2	-9	9	-9	-9	-9	-9	-9
308	2	2002.5	34.631	2	34.630	2	2.307	2.166	27.662	-9	0.0	2	34.2	2	2.42	2	94.6	2	-9	1	-9	1	160.90	2	-9	9	-9	9	7.5693	2	-9	9	-9	45.6	-9	-9	-9
307	2	2297.5	34.680	2	34.679	2	2.079	1.916	27.722	-9	0.0	2	33.2	2	2.35	2	100.1	2	0.007	2	0.004	2	169.02	2	-9	9	-9	9	7.5834	2	-9	9	-9	-9	-9	-9	-9
306	2	2598.1	34.695	2	34.695	2	1.846	1.660	27.754	-9	0.0	2	33.0	2	2.34	2	108.6	2	0.000	2	0.002	2	171.32	2	-9	9	-9	9	7.5915	2	-9	9	-9	-9	-9	-9	-9
305	2	2897.7	34.702	2	34.701	2	1.705	1.493	27.772	-9	0.0	2	32.9	2	2.30	2	112.6	2	0.010	2	-0.002	2	175.16	2	-9	9	-9	9	7.5959	2	-9	9	-9	37.7	2.5	-9	-9
304	2	3201.2	34.707	2	34.706	2	1.597	1.358	27.785	-9	0.0	2	32.8	2	2.31	2	116.3	2	-0.003	2	-0.001	2	179.99	2	-9	9	-9	9	7.6011	2	-9	9	-9	-9	-9	-9	-9
303	2	3497.4	34.709	2	34.708	2	1.386	1.122	27.803	-9	0.0	2	32.3	2	2.31	2	122.4	2	0.002	2	-0.001	2	186.78	2	-9	9	-9	9	7.6087	2	-9	9	-9	-9	-9	-9	-9
302	2	3799.5	34.708	2	34.709	2	1.159	0.871	27.819	-9	0.0	2	32.3	2	2.29	2	126.8	2	0.000	2	-0.003	2	193.16	2	-9	9	-9	9	-9	9	-9	9	-9	35.7	-9	-9	-9
301	2	3999.7	34.709	2	34.708	2	1.098	0.790	27.825	-9	0.0	2	32.4	2	2.33	2	126.2	2	0.002	2	0.002	2	195.98	2	-9	9	-9	9	7.6156	2	-9	9	-9	35.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 52 DATE 3/13/94 LATITUDE 43°30.0'S Btm Depth: 3757
CAST 1 LONGITUDE 103°0.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.9	34.047	2	34.049	2	13.354	13.353	25.584	0.090	0.2	2	12.0	2	1.03	2	0.0	2	-9	9	-9	9	261.57	2	491	2	2056.3	2	7.8894	2	2259	2	1.90	-9	-9	-9	-9
135	2	24.7	34.050	2	34.050	2	13.189	13.185	25.620	0.095	0.2	2	11.9	2	0.98	2	0.0	2	-9	9	-9	9	261.35	2	492	2	2055.9	2	7.8895	2	2263	2	-9	-9	-9	-9	-9
134	2	50.1	34.048	2	34.050	2	13.168	13.161	25.624	0.088	0.2	2	11.9	2	1.01	2	0.0	2	-9	9	-9	9	261.94	2	491	2	2056.3	2	7.8895	2	2266	2	-9	-9	-9	-9	-9
133	2	74.7	34.090	2	34.090	2	11.233	11.224	26.026	0.084	0.2	2	12.8	2	1.08	2	0.0	2	-9	9	-9	9	275.37	2	522	2	2068.9	2	7.8693	2	2266	2	-9	-9	-9	-9	-9
132	2	98.2	34.099	2	34.100	2	9.270	9.259	26.371	0.052	0.2	2	13.1	2	1.14	2	0.0	2	-9	9	-9	9	286.05	2	546	2	2077.7	2	7.8514	2	2266	2	-9	-9	-9	-9	-9
131	2	124.2	34.127	2	34.134	2	8.004	7.992	26.589	0.040	0.3	2	14.5	2	1.14	2	0.2	2	-9	9	-9	9	284.11	2	584	2	2089.6	2	7.8268	2	2267	2	-9	-9	-9	-9	-9
130	2	148.1	34.163	2	34.166	2	7.511	7.496	26.690	0.034	0.5	2	15.8	2	1.22	2	0.6	2	-9	9	-9	9	278.46	2	613	2	2097.8	2	7.8101	2	2269	2	-9	-9	-9	-9	-9
129	2	201.0	34.247	2	34.251	2	6.814	6.796	26.854	0.025	0.0	2	19.4	2	1.40	2	2.8	2	-9	9	-9	9	267.82	2	673	2	2117.0	2	7.7727	2	2273	2	-9	-9	-9	-9	-9
128	3	248.6	34.283	2	34.285	2	6.547	6.525	26.919	0.019	0.0	2	20.3	2	1.50	2	4.0	2	-9	9	-9	9	268.02	2	695	2	2123.0	2	-9	9	2286	2	-9	-9	-9	-9	-9
127	3	299.8	34.301	2	-9	5	6.433	6.407	26.948	0.017	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	350.1	34.305	2	34.305	2	6.329	6.298	26.965	0.015	0.0	2	20.9	2	1.49	2	5.0	2	-9	9	-9	9	266.38	2	706	2	2125.2	2	7.7588	2	2279	2	-9	-9	-9	-9	-9
125	2	398.9	34.303	2	34.303	2	6.212	6.177	26.979	0.013	0.0	2	21.5	2	1.53	2	5.8	2	-9	9	-9	9	266.49	2	701	2	2126.4	2	7.7567	2	2277	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	493.2	34.296	2	34.295	2	5.999	5.956	27.002	0.012	0.0	2	22.1	2	1.55	2	6.7	2	-9	9	-9	9	266.66	2	710	2	2128.5	2	7.7525	2	2283	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.6	34.279	2	34.279	2	5.707	5.656	27.026	0.011	0.0	2	22.9	2	1.67	2	8.1	2	-9	9	-9	9	263.81	2	726	2	2132.9	2	7.7424	2	2280	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.5	34.264	2	34.264	2	5.347	5.289	27.058	0.007	0.0	2	24.7	2	1.78	2	10.5	2	-9	9	-9	9	254.65	2	769	2	2141.6	2	7.7242	2	2279	2	-9	-9	-9	-9	-9
118	2	798.0	34.260	2	34.260	2	4.968	4.903	27.100	0.008	0.0	2	27.4	2	1.91	2	15.0	2	-9	9	-9	9	240.48	2	828	2	2155.3	2	7.6955	2	2283	2	-9	-9	-9	-9	-9
117	2	899.7	34.275	2	34.276	2	4.579	4.508	27.156	0.009	0.0	2	28.7	2	2.05	2	22.0	2	-9	9	-9	9	221.97	2	904	2	2174.6	2	7.6620	2	2289	2	-9	-9	-9	-9	-9
116	2	1001.3	34.301	2	34.300	2	4.145	4.068	27.223	0.007	0.0	2	30.5	2	2.18	2	30.0	2	-9	9	-9	9	208.16	2	977	6	2190.3	2	7.6350	2	2290	6	-9	-9	-9	-9	-9
115	2	1096.5	34.331	2	34.331	2	3.707	3.626	27.292	0.009	0.0	2	32.3	2	2.26	2	39.5	2	-9	9	-9	9	197.82	2	-9	9	-9	9	7.6111	2	-9	9	-9	-9	-9	-9	-9
114	2	1197.5	34.374	2	34.374	2	3.358	3.272	27.360	0.007	0.0	2	33.5	2	2.33	2	48.3	2	-9	9	-9	9	185.45	2	1104	2	-9	9	7.5891	2	-9	9	-9	-9	-9	-9	-9
113	2	1303.6	34.420	2	34.419	2	3.136	3.043	27.418	0.005	0.0	2	35.4	2	2.44	2	57.9	2	-9	9	-9	9	172.80	2	-9	9	-9	9	7.5715	2	-9	9	-9	-9	-9	-9	-9
112	2	1402.3	34.466	2	34.465	2	2.952	2.853	27.472	0.005	0.0	2	34.8	2	2.41	2	67.3	2	-9	9	-9	9	164.48	2	-9	9	-9	9	7.5601	2	-9	9	-9	-9	-9	-9	-9
111	2	1583.4	34.535	2	34.534	2	2.663	2.553	27.554	0.007	0.0	2	34.7	2	2.41	2	77.9	2	-9	9	-9	9	162.11	2	1209	2	-9	9	7.5580	2	-9	9	-9	-9	-9	-9	-9
110	2	1800.0	34.602	2	34.601	2	2.424	2.298	27.629	0.006	0.0	2	34.5	2	2.44	2	85.9	2	-9	9	-9	9	161.64	2	-9	9	-9	9	7.5652	2	-9	9	-9	-9	-9	-9	-9
109	2	1998.6	34.642	2	34.641	2	2.251	2.111	27.676	0.005	0.0	2	34.0	2	2.40	2	92.7	2	-9	9	-9	9	162.38	2	1181	2	-9	9	7.5728	2	-9	9	-9	-9	-9	-9	-9
108	2	2245.6	34.676	2	34.673	2	2.060	1.901	27.720	0.004	0.0	2	33.6	2	2.38	2	100.4	2	-9	9	-9	9	166.13	2	1153	2	-9	9	7.5808	2	-9	9	-9	-9	-9	-9	-9
107	2	2497.5	34.690	2	34.688	2	1.864	1.686	27.748	0.003	0.0	2	33.5	2	2.33	2	110.5	2	-9	9	-9	9	168.39	2	1139	2	-9	9	7.5881	2	-9	9	-9	-9	-9	-9	-9
106	2	2742.2	34.697	2	34.696	2	1.780	1.582	27.761	0.002	0.0	2	33.2	2	2.32	2	113.1	2	-9	9	-9	9	171.92	6	-9	9	-9	9	7.5926	2	-9	9	-9	-9	-9	-9	-9
105	2	2997.8	34.704	2	34.703	2	1.671	1.451	27.776	0.002	0.0	2	33.0	2	2.36	2	112.7	2	-9	9	-9	9	177.07	2	1109	2	-9	9	7.5987	2	-9	9	-9	-9	-9	-9	-9
104	2	3250.4	34.706	2	34.706	2	1.573	1.330	27.787	0.002	0.0	2	32.9	2	2.34	2	115.0	2	-9	9	-9	9	180.77	6	-9	9	-9	9	7.6031	2	-9	9	-9	-9	-9	-9	-9
103	2	3495.8	34.707	2	34.706	2	1.348	1.086	27.805	0.001	0.0	2	33.0	2	2.30	2	121.7	2	-9	9	-9	9	186.60	6	-9	9	-9	9	7.6097	2	-9	9	-9	-9	-9	-9	-9
102	2	3497.7	34.707	2	34.706	2	1.347	1.085	27.805	0.001	0.0	2	33.0	2	2.30	2	123.0	2	-9	9	-9	9	-9	1	1067	2	-9	9	7.6103	2	-9	9	-9	-9	-9	-9	-9
101	2	3791.1	34.707	2	34.706	2	1.246	0.956	27.813	0.002	0.0	2	32.6	2	2.33	2	124.3	2	-9	9	-9	9	190.33	2	1060	2	-9	9	7.6135	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 53 DATE 3/14/94 LATITUDE 43°0.2'S Btm Depth: 3827
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	34.056	2	34.056	2	13.601	13.600	25.540	0.105	0.3	2	11.8	2	0.97	2	0.9	2	3.305	2	1.637	2	259.87	2	492	2	2054.2	2	7.8904	2	2263	2	1.90	-9	-9	-9	-9
135	2	26.3	34.058	2	34.058	2	13.429	13.425	25.577	0.111	0.2	2	11.8	2	0.96	2	0.8	2	3.333	6	1.646	6	260.71	2	490	2	2058.7	2	7.8907	2	2261	2	2.00	-9	-9	-9	-9
134	4	50.5	34.056	2	-9	9	13.408	13.401	25.581	0.104	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	2	74.6	34.050	2	34.053	2	10.161	10.152	26.184	0.095	0.1	2	11.8	2	0.94	2	0.8	2	3.965	2	1.905	2	285.20	2	509	2	2062.5	2	7.8729	2	2262	2	1.90	-9	-9	-9	-9
132	2	100.9	34.098	2	34.099	2	8.829	8.818	26.440	0.057	0.3	6	13.3	6	1.07	6	1.1	6	4.083	2	1.980	2	279.40	2	558	2	2078.6	2	7.8436	2	2258	2	1.80	-9	-9	-9	-9
131	2	122.7	34.147	2	34.147	2	8.238	8.226	26.570	0.037	0.3	2	14.2	2	1.12	2	1.6	2	4.139	2	1.988	2	276.96	2	577	2	2087.0	2	7.8259	2	2270	2	1.70	-9	-9	-9	-9
130	2	149.0	34.179	2	34.178	2	7.846	7.831	26.654	0.034	0.4	2	15.9	2	1.22	2	2.0	2	4.073	2	1.940	2	269.46	2	618	2	2097.1	2	7.8056	2	2269	2	1.60	-9	-9	-9	-9
129	2	198.4	34.252	2	34.254	2	6.988	6.970	26.834	0.025	0.0	2	18.3	2	1.32	2	3.7	2	4.119	2	1.908	2	270.19	2	647	2	2110.4	2	7.7838	2	2268	2	1.50	-9	-9	-9	-9
128	2	249.6	34.298	2	34.298	2	6.692	6.669	26.911	0.017	0.0	2	20.3	2	1.43	2	5.2	2	3.525	2	1.642	2	260.59	2	703	3	2123.5	2	7.7587	2	2276	2	1.40	-9	-9	-9	-9
127	2	299.9	34.312	2	34.313	2	6.556	6.529	26.941	0.017	0.0	2	20.2	2	1.42	2	6.2	2	3.556	2	1.653	2	264.45	2	669	2	2123.1	2	7.7607	2	2279	2	1.40	-9	-9	-9	-9
126	2	348.6	34.313	2	34.313	2	6.439	6.408	26.957	0.013	0.0	2	20.8	2	1.49	2	6.6	2	3.405	2	1.592	2	263.95	2	705	3	2125.4	2	7.7583	2	2268	3	1.40	-9	-9	-9	-9
125	2	402.2	34.315	2	34.316	2	6.338	6.303	26.973	0.013	0.0	2	21.0	2	1.49	2	7.1	2	3.192	2	1.505	2	263.36	2	687	2	2126.8	2	7.7579	2	2276	2	1.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.5	34.304	2	34.305	2	6.076	6.032	26.999	0.013	0.0	2	21.7	2	1.55	2	7.9	2	2.960	2	1.362	2	263.75	2	708	2	2129.3	2	7.7524	2	2275	2	1.40	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	594.8	34.287	2	34.286	2	5.777	5.726	27.023	0.012	0.0	2	22.8	2	1.58	2	9.3	2	3.007	3	1.264	2	261.02	2	737	2	2135.6	2	7.7430	2	2279	2	1.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	698.5	34.269	2	34.270	2	5.391	5.333	27.057	0.010	0.0	2	24.5	2	1.68	2	12.5	2	2.262	2	1.036	2	252.00	2	-9	9	2143.6	2	7.7213	2	-9	5	1.30	-9	-9	-9	-9
118	2	799.1	34.268	2	34.267	2	4.958	4.893	27.107	-9	0.0	2	26.8	2	1.86	2	17.5	2	1.529	2	0.704	2	235.18	2	834	2	2159.4	2	7.6900	2	2285	2	1.20	-9	-9	-9	-9
117	2	901.3	34.280	2	34.280	2	4.542	4.471	27.164	-9	0.0	2	28.9	2	2.01	2	23.8	2	1.024	2	0.488	2	220.13	2	911	2	2175.6	2	7.6605	2	2290	2	1.10	-9	-9	-9	-9
116	2	999.4	34.301	2	34.300	2	4.133	4.057	27.224	-9	0.0	2	30.6	2	2.12	2	30.4	2	0.670	2	0.326	2	208.46	2	967	2	2188.6	2	7.6351	2	2291	2	1.00	-9	-9	-9	-9
115	2	1201.1	34.379	2	34.380	2	3.424	3.337	27.358	0.012	0.0	2	33.6	2	2.25	2	49.5	2	0.201	2	0.082	2	179.58	6	1074	2	2224.0	2	7.5844	2	2310	2	0.70	-9	-9	-9	-9
114	2	1398.9	34.470	2	34.470	2	3.034	2.934	27.468	0.007	0.0	6	35.4	6	2.50	6	67.6	6	0.044	2	0.027	2	156.22	2	1179	2	2254.4	2	7.5509	2	-9	5	0.50	-9	-9	-9	-9
113	2	1598.0	34.540	2	34.540	2	2.691	2.579	27.555	0.006	0.0	2	35.1	2	2.46	2	79.0	2	0.036	2	0.012	2	155.94	2	1231	2	2264.7	2	7.5530	2	2342	2	0.40	-9	-9	-9	-9
112	2	1800.8	34.595	2	34.595	2	2.452	2.326	27.621	0.006	0.0	2	34.2	2	2.40	2	86.2	2	0.021	2	0.013	2	160.98	6	-9	9	2267.0	2	7.5636	2	2352	2	0.40	-9	-9	-9	-9
111	2	2000.2	34.643	2	34.642	2	2.274	2.133	27.675	0.006	0.0	2	33.7	2	2.36	2	90.6	2	0.024	2	0.046	4	164.91	2	1143	2	2270.5	2	7.5746	2	2354	2	0.40	-9	-9	-9	-9
110	2	2248.8	34.682	2	34.683	2	2.077	1.918	27.723	0.004	0.0	2	32.9	2	2.30	2	96.0	2	0.014	2	0.007	2	169.38	2	1133	2	-9	9	7.5842	2	2367	2	0.30	-9	-9	-9	-9
109	2	2499.9	34.696	2	34.695	2	1.882	1.703	27.751	0.004	0.0	6	32.7	6	2.29	6	105.2	6	0.007	2	0.003	2	171.94	6	1127	2	2277.0	2	7.5914	2	2370	2	0.40	-9	-9	-9	-9
108	2	2749.5	34.701	2	34.699	2	1.741	1.542	27.767	0.003	0.0	2	33.0	2	2.31	2	109.4	2	0.000	2	0.000	2	173.93	2	1098	2	2285.4	3	7.5965	2	-9	5	0.30	-9	-9	-9	-9
107	2	2996.6	34.705	2	34.704	2	1.655	1.435	27.778	0.002	0.0	2	33.2	2	2.30	2	113.5	2	0.000	6	0.001	6	177.43	2	1083	2	2278.5	2	7.5992	2	2373	2	0.40	-9	-9	-9	-9
106	2	3246.3	34.708	2	34.707	2	1.527	1.285	27.791	0.002	0.0	2	32.8	2	2.32	2	116.0	2	0.005	2	0.001	2	185.18	2	1082	2	2278.0	2	7.6045	2	2377	2	0.40	-9	-9	-9	-9
105	2	3499.3	34.707	2	34.707	2	1.299	1.038	27.808	0.001	0.0	2	32.9	2	2.29	2	120.5	2	0.021	2	0.000	2	188.13	2	1073	2	2279.7	2	7.6113	2	2384	2	0.40	-9	-9	-9	-9
104	2	3750.4	34.708	2	34.707	2	1.173	0.890	27.818	0.003	0.0	6	32.5	6	2.27	6	124.9	6	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3748.6	34.708	2	34.707	2	1.174	0.891	27.818	0.003	0.0	2	32.6	2	2.29	2	123.8	2	-0.003	6	0.002	6	191.84	2	-9	9	2279.2	2	7.6146	2	2385	2	-9	-9	-9	-9	-9
102	2	3750.7	34.708	2	34.708	2	1.174	0.890	27.818	0.003	0.0	6	32.9	6	2.28	6	124.7	6	0.000	2	0.002	2	192.05	2	1057	2	2278.5	2	7.6150	2	-9	5	0.40	-9	-9	-9	-9
101	2	3862.7	34.709	2	34.709	2	1.086	0.793	27.825	0.002	0.0	2	32.7	2	2.25	2	127.2	2	0.051	4	0.167	4	195.27	2	1062	2	2275.6	2	7.6157	2	2381	2	0.40	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 54 DATE 3/14/94 LATITUDE 42°29.0'S Btm Depth: 3799
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.4	34.051	2	34.051	2	13.663	13.661	25.524	0.107	0.2	2	11.6	2	0.94	2	0.0	2	-9	9	-9	9	259.87	2	490	2	2055.1	2	7.8922	2	2263	6	-9	-9	-9	-9	-9
135	2	10.7	34.051	2	34.051	2	13.662	13.660	25.524	0.106	0.2	2	11.5	2	0.92	2	0.0	2	-9	9	-9	9	259.66	2	491	2	2052.7	2	7.8937	2	2265	2	-9	-9	-9	-9	-9
134	2	11.3	34.051	2	34.052	2	13.662	13.660	25.524	0.106	0.2	2	11.6	2	0.90	2	0.0	2	-9	9	-9	9	259.65	2	-9	9	2053.7	2	7.8922	2	2263	2	-9	-9	-9	-9	-9
133	2	22.5	34.051	2	34.051	2	13.513	13.510	25.555	0.111	0.2	2	11.5	2	0.94	2	0.0	2	-9	9	-9	9	260.75	2	492	2	2055.9	2	7.8929	2	2259	2	-9	-9	-9	-9	-9
132	2	23.7	34.051	2	34.050	2	13.512	13.509	25.555	0.112	0.2	2	11.7	2	0.94	2	0.0	2	-9	9	-9	9	260.67	2	493	2	2055.2	2	7.8944	2	2262	2	-9	-9	-9	-9	-9
131	2	53.2	34.051	2	34.053	2	13.368	13.361	25.585	0.098	0.2	2	11.6	2	0.92	2	0.0	2	-9	9	-9	9	261.42	2	495	2	2054.6	2	7.8909	2	2256	2	-9	-9	-9	-9	-9
130	2	72.7	34.084	2	34.083	2	10.725	10.716	26.113	0.085	0.1	2	11.9	2	0.94	2	0.0	2	-9	9	-9	9	281.11	6	519	2	2066.9	2	7.8712	2	2261	2	-9	-9	-9	-9	-9
129	2	93.3	34.115	2	34.117	2	9.073	9.063	26.415	0.044	0.2	2	12.8	2	1.03	2	0.0	2	-9	9	-9	9	283.27	2	560	2	2078.4	2	7.8499	2	2266	2	-9	-9	-9	-9	-9
128	2	147.2	34.204	2	34.200	2	7.651	7.636	26.702	0.034	0.3	2	16.0	2	1.23	2	0.2	2	-9	9	-9	9	272.21	2	619	2	2100.4	2	7.8065	2	2264	2	-9	-9	-9	-9	-9
127	2	197.8	34.290	2	34.290	2	7.039	7.021	26.857	0.026	0.0	2	19.5	2	1.35	2	2.2	2	-9	9	-9	9	259.43	2	689	2	2120.6	2	7.7674	2	2272	2	-9	-9	-9	-9	-9
126	2	242.9	34.309	2	34.308	2	6.817	6.795	26.902	0.021	0.0	2	19.8	2	1.39	2	3.0	2	-9	9	-9	9	263.56	2	686	2	2123.1	2	-9	9	2277	2	-9	-9	-9	-9	-9
125	2	351.5	34.322	2	34.322	2	6.491	6.459	26.958	0.014	0.0	2	21.0	2	1.49	2	4.6	2	-9	9	-9	9	261.39	6	707	2	2129.3	2	-9	9	2280	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	395.3	34.319	2	34.319	2	6.361	6.326	26.973	0.016	0.0	2	21.4	2	1.51	2	4.9	2	-9	9	-9	9	261.83	2	710	2	2129.6	2	-9	9	2273	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	500.2	34.302	2	34.301	2	6.049	6.005	27.000	0.011	0.0	2	22.1	2	1.51	2	5.9	2	-9	9	-9	9	264.28	6	718	2	2131.1	2	-9	9	2275	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	597.0	34.281	2	34.281	2	5.753	5.702	27.022	0.008	0.0	2	22.8	2	1.58	2	7.2	2	-9	9	-9	9	265.33	2	724	2	2134.0	2	-9	9	2279	2	-9	-9	-9	-9	-9
118	2	696.8	34.270	2	34.270	2	5.398	5.339	27.057	0.008	0.0	2	24.8	2	1.72	2	10.5	2	-9	9	-9	9	251.42	2	780	2	2146.6	2	-9	9	2277	2	-9	-9	-9	-9	-9
117	2	800.8	34.268	2	34.268	2	4.950	4.885	27.108	0.009	0.0	2	27.0	2	1.88	2	15.0	2	-9	9	-9	9	236.00	2	845	2	2161.0	2	-9	9	2282	2	-9	-9	-9	-9	-9
116	2	896.3	34.279	2	34.279	2	4.540	4.470	27.163	0.010	0.0	2	29.0	2	1.97	2	21.7	2	-9	9	-9	9	221.65	2	918	2	2176.2	2	-9	9	2286	6	-9	-9	-9	-9	-9
115	2	1095.8	34.338	2	34.337	2	3.731	3.650	27.295	0.008	0.0	2	32.3	2	2.25	2	38.6	2	-9	9	-9	9	192.32	2	1055	2	2208.7	2	-9	9	2302	2	-9	-9	-9	-9	-9
114	2	1199.4	34.388	2	34.387	2	3.378	3.291	27.369	0.008	0.0	2	34.0	2	2.36	2	48.9	2	-9	9	-9	9	176.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1399.8	34.475	2	34.474	2	3.052	2.953	27.470	0.006	0.0	2	35.9	2	2.52	2	65.8	2	-9	9	-9	9	151.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1599.7	34.544	2	34.543	2	2.723	2.611	27.556	0.007	0.0	2	35.7	2	2.46	2	79.3	2	-9	9	-9	9	149.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1795.7	34.594	2	34.596	2	2.462	2.336	27.619	0.005	0.0	2	34.9	2	2.43	2	89.4	2	-9	9	-9	9	154.94	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1998.1	34.638	2	34.636	2	2.256	2.115	27.673	0.006	0.0	2	34.0	2	2.39	2	94.6	2	-9	9	-9	9	161.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2244.5	34.677	2	34.675	2	2.055	1.897	27.721	0.005	0.0	2	33.4	2	2.34	2	99.5	2	-9	9	-9	9	166.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2549.7	34.693	2	34.692	2	1.860	1.678	27.751	0.004	0.0	2	33.3	2	2.30	2	107.5	2	-9	9	-9	9	170.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2747.7	34.699	2	34.697	2	1.759	1.560	27.764	0.004	0.0	2	33.1	2	2.30	2	112.0	2	-9	9	-9	9	172.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2998.3	34.703	2	34.702	2	1.664	1.443	27.776	0.004	0.0	2	33.0	2	2.31	2	112.6	2	-9	9	-9	9	176.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3245.4	34.707	2	34.705	2	1.515	1.274	27.791	0.003	0.0	2	32.8	2	2.30	2	115.1	2	-9	9	-9	9	181.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3500.1	34.707	2	34.707	2	1.265	1.005	27.809	0.003	0.0	2	33.0	2	2.27	2	122.4	2	-9	9	-9	9	188.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3698.3	34.707	2	34.706	2	1.265	1.005	27.810	0.003	0.0	2	32.9	2	2.28	2	124.1	2	-9	9	-9	9	188.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3750.9	34.707	2	34.706	2	1.186	0.902	27.817	0.004	0.0	2	33.0	2	2.28	2	124.3	2	-9	9	-9	9	191.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3823.6	34.708	2	34.708	2	1.168	0.877	27.819	0.004	0.0	2	32.6	2	2.31	2	124.2	2	-9	9	-9	9	193.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 55 DATE 3/14/94 LATITUDE 42°0.0'S Btm Depth: 3982
CAST 3 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	12.5	34.034	2	34.034	2	13.730	13.729	25.497	0.114	0.2	2	11.2	2	0.92	2	1.1	2	3.296	2	1.646	2	259.86	2	481	2	2052.8	2	7.8961	2	2253	3	1.90	55.0	-9	0.101	0.042
335	2	24.6	34.031	2	34.299	4	13.578	13.575	25.526	0.123	0.0	2	30.8	4	2.08	4	29.8	4	0.450	4	0.226	4	-9	1	-9	9	-9	9	-9	9	-9	9	-9	40.4	3.3	-9	-9
334	2	50.5	34.030	2	34.032	2	13.209	13.202	25.601	0.110	0.2	2	11.1	2	0.88	2	1.1	2	3.422	2	1.699	2	262.45	2	485	2	-9	9	7.8953	2	-9	9	-9	48.9	-9	0.104	0.056
333	2	75.1	34.065	2	34.063	2	9.999	9.990	26.224	0.091	0.1	2	11.8	2	0.95	2	1.2	2	3.972	2	1.939	2	283.36	2	-9	9	-9	9	7.8672	2	-9	9	-9	48.0	4.2	0.180	0.113
332	2	100.3	34.099	2	34.100	2	9.009	8.999	26.413	0.060	0.2	2	12.7	2	1.05	2	1.4	2	4.074	2	1.954	2	-9	1	550	6	-9	9	7.8478	2	-9	9	-9	48.8	5.2	0.192	0.141
331	2	122.4	34.156	2	34.155	2	8.153	8.141	26.590	0.043	0.5	2	14.9	2	1.14	2	1.8	2	4.067	6	1.955	6	272.61	2	-9	9	-9	9	7.8167	2	-9	9	-9	-9	-9	0.183	0.159
330	2	149.2	34.197	2	34.196	2	7.662	7.647	26.695	0.034	0.1	2	16.8	2	1.21	2	2.5	2	4.074	2	1.952	2	270.23	2	-9	9	-9	9	7.8003	2	-9	9	-9	-9	-9	0.160	0.057
329	2	199.8	34.278	2	34.278	2	7.177	7.158	26.828	0.024	0.0	2	18.9	2	1.35	2	4.0	2	3.779	2	1.777	2	260.48	2	-9	9	-9	9	7.7716	2	-9	9	-9	51.0	-9	0.038	0.044
328	2	247.7	34.307	2	34.307	2	6.792	6.769	26.905	0.019	0.0	2	19.8	2	1.41	2	5.4	2	3.751	2	1.758	2	263.81	2	-9	9	-9	9	7.7661	2	-9	9	-9	-9	-9	-9	-9
327	2	300.3	34.319	2	34.319	2	6.656	6.629	26.932	0.017	0.0	2	20.1	2	1.40	2	6.1	2	3.584	2	1.656	2	263.83	2	-9	9	-9	9	7.7632	2	-9	9	-9	45.8	4.0	-9	-9
326	2	349.7	34.322	2	34.322	2	6.494	6.463	26.957	0.017	0.0	2	20.2	2	1.46	2	7.0	2	3.426	2	1.587	2	262.60	2	-9	9	-9	9	7.7583	2	-9	9	-9	-9	-9	-9	-9
325	2	403.7	34.317	2	34.318	2	6.320	6.284	26.977	0.017	0.0	2	21.3	2	1.49	2	7.6	2	3.096	6	1.450	6	262.26	2	690	6	-9	9	7.7539	2	-9	9	-9	44.2	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	498.0	34.303	2	34.303	2	6.029	5.985	27.004	0.010	0.0	2	22.2	2	1.56	2	8.6	2	2.801	2	1.306	2	262.03	6	-9	9	-9	9	7.7496	2	-9	9	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	602.4	34.282	2	34.283	2	5.722	5.670	27.027	0.011	0.0	2	23.2	2	1.63	2	10.0	2	2.770	2	1.305	2	261.12	6	-9	9	-9	9	7.7408	2	-9	9	-9	44.4	3.8	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	699.6	34.265	2	34.265	2	5.372	5.314	27.056	0.010	0.0	2	24.5	2	1.67	2	12.4	2	2.551	2	1.179	2	255.04	2	-9	9	-9	9	7.7244	2	-9	9	-9	49.2	-9	-9	-9
318	2	801.2	34.269	2	34.268	2	4.946	4.881	27.109	0.010	0.0	2	27.0	2	1.85	2	18.1	2	1.445	2	0.683	2	234.36	6	-9	9	-9	9	7.6885	2	-9	9	-9	46.2	-9	-9	-9
317	2	900.2	34.283	2	34.283	2	4.474	4.404	27.174	0.010	0.0	2	29.3	2	2.04	2	25.2	2	0.657	6	0.326	6	215.47	2	-9	9	-9	9	7.6518	2	-9	9	-9	-9	-9	-9	-9
316	2	998.7	34.305	2	34.306	2	4.109	4.033	27.230	0.010	0.0	2	30.7	2	2.15	2	32.2	2	0.382	2	0.199	2	203.08	2	979	2	-9	9	7.6272	2	-9	9	-9	43.4	2.3	-9	-9
315	2	1100.2	34.340	2	34.338	2	3.739	3.658	27.295	0.010	0.0	2	32.3	2	2.26	2	40.7	2	0.201	2	0.103	2	189.87	2	-9	9	-9	9	7.6037	2	-9	9	-9	-9	-9	-9	-9
314	2	1183.4	34.378	2	34.377	2	3.481	3.394	27.352	0.008	0.0	2	35.5	2	2.31	2	49.3	2	0.087	2	0.046	2	175.56	2	-9	9	-9	9	7.5791	2	-9	9	-9	-9	-9	-9	-9
313	2	1394.3	34.483	2	34.482	2	3.017	2.918	27.480	0.008	0.0	2	35.1	2	2.41	2	70.0	2	0.022	6	0.011	6	150.41	2	-9	9	-9	9	7.5437	2	-9	9	-9	-9	-9	-9	-9
312	2	1598.9	34.551	2	34.550	2	2.690	2.578	27.564	0.008	0.0	2	34.9	2	2.42	2	81.8	2	0.009	2	0.004	2	149.25	2	-9	9	-9	9	7.5457	2	-9	9	-9	-9	-9	-9	-9
311	2	1798.8	34.599	2	34.598	2	2.435	2.310	27.625	0.007	0.0	2	34.3	2	2.42	2	87.7	2	0.036	4	0.002	2	155.54	2	-9	9	-9	9	7.5590	2	-9	9	-9	-9	-9	-9	-9
310	2	1999.4	34.638	2	34.637	2	2.258	2.117	27.672	0.007	0.0	2	33.4	2	2.33	2	92.7	2	-9	9	-9	9	161.22	2	-9	9	-9	9	7.5712	2	-9	9	-9	-9	-9	-9	-9
309	2	2250.1	34.676	2	34.674	2	2.058	1.899	27.720	0.007	0.0	2	33.0	2	2.32	2	99.8	2	0.002	2	0.000	2	166.43	2	-9	9	-9	9	7.5818	2	-9	9	-9	40.3	-9	-9	-9
308	2	2502.1	34.691	2	34.690	2	1.879	1.701	27.747	0.006	0.0	2	33.3	2	2.31	2	107.4	2	-9	9	-9	9	169.18	2	-9	9	-9	9	7.5889	2	-9	9	-9	-9	-9	-9	-9
307	2	2747.6	34.696	2	34.695	2	1.774	1.575	27.761	0.006	0.0	2	33.1	2	2.28	2	112.7	2	0.000	2	0.000	2	171.79	2	-9	9	-9	9	7.5927	2	-9	9	-9	-9	-9	-9	-9
306	2	2999.0	34.702	2	34.701	2	1.677	1.456	27.774	0.005	0.0	2	32.6	2	2.27	2	115.5	2	-9	9	-9	9	177.63	2	-9	9	-9	9	7.5973	2	-9	9	-9	-9	-9	-9	-9
305	2	3246.4	34.704	2	34.703	2	1.522	1.281	27.788	0.004	0.0	2	32.8	2	2.24	2	117.2	2	0.003	2	0.001	2	180.58	2	-9	9	-9	9	7.6035	2	-9	9	-9	37.7	2.5	-9	-9
304	2	3497.9	34.707	2	34.706	2	1.322	1.061	27.806	0.004	0.0	2	32.8	2	2.21	2	121.4	2	-9	9	-9	9	187.39	2	-9	9	-9	9	7.6103	2	-9	9	-9	-9	-9	-9	-9
303	2	3497.8	34.706	2	34.706	2	1.319	1.057	27.806	0.004	0.0	2	32.7	2	2.22	2	121.7	2	0.003	2	-0.002	2	186.84	2	-9	9	-9	9	7.6108	2	-9	9	-9	-9	-9	-9	-9
302	2	3741.3	34.708	2	34.706	2	1.164	0.882	27.818	0.004	0.0	2	32.5	2	2.17	2	126.4	2	-9	9	-9	9	192.04	2	-9	9	-9	9	7.6142	2	-9	9	-9	41.2	-9	-9	-9
301	2	3741.2	34.708	2	34.707	2	1.161	0.879	27.818	0.004	0.0	2	32.4	2	2.19	2	126.8	2	-0.002	2	-0.002	2	-9	1	-9	9	-9	9	7.6149	2	-9	9	-9	38.1	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 56 DATE 3/15/94 LATITUDE 41°29.6'S Btm Depth: 3803
CAST 2 LONGITUDE 102°59.5'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
224	2	11.6	33.979	2	33.980	2	14.901	14.900	25.207	-9	0.2	2	10.3	2	0.87	2	2.3	2	-9	9	-9	9	253.87	2	471	2	2040.4	2	-9	9	2262	2	-9	-9	-9	-9	-9
223	2	25.4	33.982	2	33.981	2	14.734	14.731	25.246	-9	0.2	2	10.5	2	0.83	2	1.8	2	-9	9	-9	9	254.81	2	472	2	2042.0	2	-9	9	2253	2	-9	-9	-9	-9	-9
222	2	48.9	33.968	2	33.993	2	14.346	14.339	25.319	-9	0.2	2	10.7	2	0.84	2	1.6	2	-9	9	-9	9	259.86	2	501	2	2044.7	2	-9	9	2252	2	-9	-9	-9	-9	-9
221	2	100.3	34.088	2	34.085	2	9.514	9.502	26.323	-9	0.2	2	12.2	2	0.98	2	2.3	2	-9	9	-9	9	271.70	2	533	2	2072.3	2	-9	9	2264	2	-9	-9	-9	-9	-9
220	2	144.3	34.193	2	34.186	2	8.108	8.094	26.626	-9	0.2	2	17.3	2	1.26	2	3.4	2	-9	9	-9	9	259.24	2	641	2	2102.3	2	-9	9	2268	2	-9	-9	-9	-9	-9
219	2	195.1	34.277	2	34.275	2	7.304	7.286	26.809	-9	0.0	2	20.2	2	1.41	2	5.2	2	-9	9	-9	9	252.88	2	695	2	2119.1	2	-9	9	2272	2	-9	-9	-9	-9	-9
218	2	298.7	34.313	2	34.313	2	6.586	6.559	26.937	-9	0.0	2	21.2	2	1.46	2	7.2	2	-9	9	-9	9	258.06	2	711	2	2126.0	2	-9	9	2273	2	-9	-9	-9	-9	-9
217	2	399.6	34.312	2	34.312	2	6.272	6.237	26.979	-9	0.0	2	22.4	2	1.49	2	8.6	2	-9	9	-9	9	261.49	2	714	2	2129.3	2	-9	9	2280	2	-9	-9	-9	-9	-9
216	2	500.2	34.298	2	34.299	2	5.994	5.951	27.004	-9	0.0	2	22.0	2	1.57	2	9.3	2	-9	9	-9	9	263.12	2	730	2	2130.6	2	-9	9	2278	2	-9	-9	-9	-9	-9
215	2	599.8	34.281	2	34.281	2	5.683	5.632	27.030	-9	0.0	2	23.8	2	1.65	2	10.6	2	-9	9	-9	9	259.22	2	745	2	2135.0	2	-9	9	2280	2	-9	-9	-9	-9	-9
214	2	701.4	34.269	2	34.272	2	5.285	5.227	27.069	-9	0.0	2	25.8	2	1.76	2	13.6	2	-9	9	-9	9	245.17	2	802	2	2147.0	2	-9	9	-9	5	-9	-9	-9	-9	-9
213	2	800.4	34.269	2	34.270	2	4.892	4.827	27.115	-9	0.0	2	27.8	2	1.90	2	19.2	2	-9	9	-9	9	229.03	2	864	2	2161.9	2	-9	9	2284	2	-9	-9	-9	-9	-9
212	2	898.2	34.281	2	34.279	2	4.538	4.468	27.165	-9	0.0	2	28.9	2	1.99	2	23.4	2	-9	9	-9	9	219.24	2	925	2	2172.2	2	-9	9	2289	2	-9	-9	-9	-9	-9
211	2	999.9	34.309	2	34.307	2	4.050	3.974	27.239	-9	0.0	2	31.1	2	2.18	2	33.5	2	-9	9	-9	9	202.57	2	999	2	2192.8	2	-9	9	2300	2	-9	-9	-9	-9	-9
210	2	1199.6	34.387	2	34.381	3	3.421	3.334	27.365	-9	0.0	2	34.1	2	2.41	2	51.2	2	-9	9	-9	9	173.98	2	1149	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
209	2	1381.7	34.478	2	-9	9	3.062	2.963	27.472	-9	0.0	2	36.7	2	2.89	2	71.8	2	-9	9	-9	9	149.64	2	1254	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
208	3	1699.2	34.570	2	-9	9	2.584	2.464	27.589	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
207	2	2028.3	34.645	2	34.631	4	2.227	2.085	27.680	-9	0.0	2	33.8	2	2.47	2	96.1	2	-9	9	-9	9	162.34	2	1176	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
206	2	2299.8	34.679	2	34.681	2	2.007	1.845	27.727	-9	0.0	2	33.5	2	2.38	2	103.7	2	-9	9	-9	9	166.96	2	1141	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
205	2	2600.1	34.691	2	34.690	2	1.817	1.631	27.752	-9	0.0	2	33.4	2	2.40	2	111.9	2	-9	9	-9	9	168.21	2	1131	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
204	2	2899.8	34.698	2	34.698	2	1.718	1.506	27.768	-9	0.0	2	33.2	2	2.10	4	114.3	2	-9	9	-9	9	172.95	2	1116	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
203	2	3202.2	34.705	2	34.704	2	1.578	1.340	27.785	-9	0.0	2	32.7	2	2.33	2	117.8	2	-9	9	-9	9	179.16	2	1094	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
202	2	3539.4	34.706	2	-9	9	1.272	1.008	27.809	-9	0.0	2	33.7	2	2.38	2	126.4	2	-9	9	-9	9	188.15	2	1061	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
201	2	3844.3	34.708	2	34.718	3	1.128	0.836	27.822	-9	0.0	2	33.2	2	2.35	2	124.9	2	-9	9	-9	9	193.99	2	1056	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 57 DATE 3/15/94 LATITUDE 41°1.0'S Btm Depth: 3927
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	9.8	33.997	2	33.997	2	15.794	15.792	25.023	-9	0.2	2	8.6	2	0.81	2	1.5	2	2.946	2	1.481	2	248.12	2	-9	9	2038.6	2	7.9204	2	2259	2	2.40	62.7	-9	-9	-9
123	2	24.2	34.002	2	34.002	2	15.615	15.611	25.068	-9	0.2	2	8.5	2	0.85	2	1.3	2	2.969	2	1.493	2	249.59	2	-9	9	2039.1	2	7.9203	2	2258	2	-9	57.9	-9	-9	-9
122	2	50.4	34.007	2	34.019	2	14.613	14.606	25.292	-9	0.1	2	8.5	2	0.80	2	1.5	2	3.174	2	1.596	2	258.71	2	-9	9	2041.8	2	7.9144	2	2256	2	-9	58.1	-9	-9	-9
121	2	97.2	34.100	2	34.101	2	9.516	9.505	26.332	-9	0.2	2	11.7	2	1.03	2	2.0	2	3.891	2	1.882	2	273.24	2	-9	9	2073.2	2	7.8533	2	2255	3	-9	51.2	-9	-9	-9
120	2	147.7	34.196	2	34.197	2	8.376	8.361	26.588	-9	0.1	2	15.7	2	1.25	2	2.7	2	3.802	2	1.798	2	258.41	2	-9	9	2098.9	2	7.8028	2	2265	2	-9	47.9	-9	-9	-9
119	2	198.8	34.290	2	34.291	2	7.671	7.652	26.767	-9	0.0	2	19.3	2	1.47	2	4.7	2	3.136	2	1.470	2	242.39	2	-9	9	2121.7	2	7.7595	2	2269	2	-9	41.2	-9	-9	-9
118	2	246.2	34.300	2	34.302	2	7.092	7.069	26.858	-9	0.0	2	19.7	2	1.45	2	5.4	2	3.339	2	1.570	2	253.10	2	-9	9	2123.8	2	7.7582	2	2269	2	-9	-9	-9	-9	-9
117	2	300.9	34.322	2	34.322	2	6.695	6.668	26.930	-9	0.0	2	20.5	2	1.49	2	6.5	2	3.103	2	1.439	2	255.97	2	-9	9	2128.4	2	7.7540	2	2275	2	-9	-9	-9	-9	-9
116	2	398.0	34.327	2	34.326	2	6.407	6.372	26.973	-9	0.0	2	21.3	2	1.57	2	7.7	2	2.774	2	1.285	2	257.46	2	-9	9	2130.5	2	7.7501	2	2270	3	-9	-9	-9	-9	-9
115	2	498.2	34.311	2	34.312	2	6.120	6.076	26.999	-9	0.0	2	22.4	2	1.65	2	8.6	2	2.125	2	0.996	2	254.04	2	-9	9	2136.0	2	7.7425	2	2275	2	-9	-9	-9	-9	-9
114	2	597.1	34.286	2	34.288	2	5.737	5.686	27.028	-9	0.0	2	23.4	2	1.67	2	10.0	2	1.969	2	0.925	2	254.26	2	-9	9	2136.5	2	7.7361	2	2275	2	-9	-9	-9	-9	-9
113	2	803.4	34.268	2	34.661	4	4.988	4.922	27.104	-9	0.0	2	26.5	2	1.91	2	17.3	2	0.965	2	0.472	2	232.47	2	-9	9	2160.0	3	7.6875	2	2284	2	-9	-9	-9	-9	-9
112	2	996.2	34.303	2	34.304	2	4.151	4.075	27.224	-9	0.0	2	30.8	2	2.23	2	31.5	2	0.298	2	0.158	2	201.30	2	-9	9	2193.6	2	7.6274	2	2298	2	-9	-9	-9	-9	-9
111	2	1198.7	34.385	2	34.384	2	3.482	3.394	27.357	-9	0.0	2	34.4	2	2.44	2	49.8	2	0.062	2	0.025	2	170.56	2	-9	9	2228.9	2	7.5722	2	2310	2	-9	-9	-9	-9	-9
110	2	1399.0	34.488	2	34.487	2	3.100	3.000	27.476	-9	0.0	2	36.0	2	2.62	2	72.2	2	0.013	2	0.002	2	140.75	2	-9	9	2268.7	2	7.5304	2	2338	2	-9	-9	-9	-9	-9
109	2	1704.6	34.567	2	34.566	2	2.594	2.474	27.586	-9	0.0	2	34.7	2	2.48	2	84.8	2	0.019	2	0.005	2	153.04	2	-9	9	2273.1	2	7.5550	2	2350	2	-9	-9	-9	-9	-9
108	2	1996.4	34.637	2	34.637	2	2.271	2.131	27.670	-9	0.0	2	33.5	2	2.44	2	92.3	2	0.013	2	0.004	2	162.54	2	-9	9	2274.6	2	7.5716	2	2363	2	-9	-9	-9	-9	-9
107	2	2300.9	34.680	2	34.680	2	2.002	1.840	27.728	-9	0.0	2	33.1	2	2.40	2	101.6	2	0.008	2	0.003	2	166.71	2	-9	9	2281.1	2	7.5835	2	2368	2	-9	-9	-9	-9	-9
106	2	2599.5	34.691	2	34.691	2	1.828	1.641	27.752	-9	0.0	2	33.0	2	2.36	2	109.2	2	0.039	4	0.000	2	168.54	2	-9	9	2285.3	2	7.5907	2	2376	2	-9	-9	-9	-9	-9
105	2	2903.1	34.699	2	34.698	2	1.727	1.514	27.768	-9	0.0	2	33.0	2	2.34	2	112.7	2	0.004	2	-0.002	2	173.24	2	-9	9	2284.2	2	7.5961	2	2377	2	-9	-9	-9	-9	-9
104	2	3203.4	34.703	2	34.703	2	1.578	1.339	27.784	-9	0.0	2	32.6	2	2.36	2	114.6	2	0.006	2	0.000	2	178.42	2	-9	9	2282.3	2	7.6022	2	2375	2	-9	-9	-9	-9	-9
103	2	3499.9	34.707	2	34.706	2	1.300	1.039	27.807	-9	0.0	2	32.3	2	2.33	2	118.8	2	0.014	2	-0.002	2	187.21	2	-9	9	2281.2	2	7.6104	2	2384	2	-9	-9	-9	-9	-9
102	2	3798.3	34.708	2	34.709	2	1.164	0.876	27.819	-9	0.0	2	32.4	2	2.32	2	122.8	2	0.011	2	0.000	2	192.03	2	-9	9	2279.2	2	7.6153	2	2386	2	-9	-9	-9	-9	-9
101	2	4081.2	34.709	2	34.708	2	1.127	0.809	27.824	-9	0.0	2	32.1	2	2.28	2	125.6	2	0.001	2	0.000	2	194.63	2	-9	9	2278.8	2	7.6160	2	2384	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
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STATION 58 DATE 3/15/94 LATITUDE 40°30.2'S Btm Depth: 3901
CAST 3 LONGITUDE 102°59.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	11.4	34.007	2	34.008	2	15.588	15.586	25.077	0.103	0.2	2	8.4	2	0.81	2	2.6	2	-9	9	-9	9	251.38	2	457	2	2034.9	2	7.9188	2	2262	2	-9	62.8	5.0	0.088	0.033
335	2	23.9	34.010	2	34.009	2	15.542	15.538	25.091	0.102	0.2	2	8.4	2	0.85	2	2.6	2	-9	9	-9	9	251.17	2	457	2	2035.7	2	7.9194	2	2256	2	-9	60.3	4.7	0.095	0.034
334	2	48.6	34.013	2	34.012	2	15.127	15.119	25.185	0.096	0.2	2	8.4	2	0.80	2	2.5	2	-9	9	-9	9	254.99	2	459	2	2039.2	2	7.9171	2	2256	2	-9	60.2	4.8	0.104	0.055
333	2	75.3	34.016	2	34.015	2	11.467	11.458	25.926	0.074	0.1	2	7.8	2	0.72	2	2.5	2	-9	9	-9	9	276.89	2	492	2	2044.4	2	7.9023	2	2257	2	-9	55.9	4.7	0.190	0.110
332	2	97.8	34.042	2	34.046	2	10.572	10.560	26.108	0.053	0.2	2	9.5	2	0.94	2	2.7	2	-9	9	-9	9	271.98	2	506	2	2054.8	2	7.8779	2	2261	2	-9	51.2	4.5	0.175	0.119
331	2	126.1	34.096	2	34.093	2	9.662	9.648	26.305	0.045	0.2	2	11.5	2	1.06	2	2.9	2	-9	9	-9	9	271.76	2	553	2	2068.5	2	7.8550	2	2264	2	-9	56.0	4.3	0.200	0.142
330	2	148.8	34.133	2	34.191	3	9.036	9.020	26.436	0.033	0.3	2	13.2	2	1.14	2	3.4	2	-9	9	-9	9	266.60	2	574	2	2080.9	2	7.8314	2	2263	2	-9	-9	-9	0.165	0.141
329	4	195.5	34.262	2	-9	9	8.200	8.180	26.667	0.028	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	56.0	-9	-9	-9
328	2	250.7	34.300	2	34.301	2	7.235	7.211	26.838	0.019	0.0	2	20.2	2	1.53	2	6.7	2	-9	9	-9	9	243.85	2	715	2	2120.4	2	7.7495	2	2272	2	-9	-9	-9	0.004	0.008
327	2	300.7	34.318	2	34.317	2	6.810	6.782	26.911	0.018	0.0	2	20.6	2	1.56	2	7.6	2	-9	9	-9	9	249.90	2	719	2	2127.0	2	7.7501	2	2278	2	-9	46.0	3.8	0.002	0.008
326	2	339.8	34.320	2	34.320	2	6.605	6.574	26.941	0.015	0.0	2	21.0	2	1.61	2	8.2	2	-9	9	-9	9	254.64	2	715	2	2128.4	2	7.7508	2	2268	3	-9	-9	-9	-9	-9
325	2	399.3	34.319	2	34.319	2	6.393	6.358	26.969	0.015	0.0	2	21.5	2	1.63	2	8.6	2	-9	9	-9	9	254.74	2	724	2	2128.7	2	7.7489	2	2271	2	-9	44.6	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	448.7	34.317	2	34.317	2	6.260	6.220	26.985	0.015	0.0	2	21.9	2	1.63	2	9.6	2	-9	9	-9	9	256.35	2	723	2	2130.3	2	7.7463	2	-9	5	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	500.4	34.310	2	34.310	2	6.105	6.061	27.000	0.012	0.0	2	22.5	2	1.64	2	10.1	2	-9	9	-9	9	255.70	2	751	2	2131.6	2	7.7430	2	2274	2	-9	44.0	3.3	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	701.8	34.274	2	34.275	2	5.449	5.390	27.054	0.012	0.0	2	24.9	2	1.85	2	12.9	2	-9	9	-9	9	245.73	2	778	2	2141.1	2	7.7200	2	2276	2	-9	-9	-9	-9	-9
318	4	799.4	34.267	2	-9	9	5.050	4.985	27.096	0.011	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	43.8	-9	-9	-9
317	2	899.0	34.281	2	34.280	2	4.637	4.565	27.154	0.011	0.0	2	29.2	2	2.15	2	24.0	2	-9	9	-9	9	216.52	2	926	2	2171.3	2	7.6600	2	2288	2	-9	-9	-9	-9	-9
316	2	998.4	34.307	2	34.307	2	4.184	4.108	27.224	0.008	0.0	2	31.2	2	2.19	2	31.5	2	-9	9	-9	9	200.34	2	1017	2	2194.9	2	7.6268	2	2291	6	-9	43.8	2.8	-9	-9
315	2	1093.0	34.335	2	34.333	2	3.828	3.746	27.283	0.009	0.0	2	32.5	2	2.26	2	39.6	2	-9	9	-9	9	188.10	2	1066	2	-9	9	7.6026	2	-9	9	-9	-9	-9	-9	-9
314	2	1199.9	34.389	2	34.386	2	3.505	3.418	27.358	0.008	0.0	2	34.3	2	2.40	2	51.6	2	-9	9	-9	9	167.25	2	1171	2	-9	9	7.5687	2	-9	9	-9	-9	-9	-9	-9
313	2	1393.5	34.489	2	34.487	2	3.123	3.023	27.475	0.008	0.0	2	36.2	2	2.59	2	73.3	2	-9	9	-9	9	137.57	2	1302	2	-9	9	7.5293	2	-9	9	-9	-9	-9	-9	-9
312	2	1598.6	34.552	2	34.553	2	2.750	2.637	27.560	0.007	0.0	2	36.0	2	2.55	2	85.1	2	-9	9	-9	9	141.31	2	1260	2	-9	9	7.5386	2	-9	9	-9	-9	-9	-9	-9
311	2	1801.7	34.593	2	34.593	2	2.469	2.343	27.618	0.007	0.0	2	35.3	2	2.48	2	91.4	2	-9	9	-9	9	148.45	2	1235	2	-9	9	7.5524	2	-9	9	-9	-9	-9	-9	-9
310	2	1995.3	34.633	2	34.632	2	2.288	2.148	27.666	0.004	0.0	2	33.7	2	2.39	2	92.3	2	-9	9	-9	9	161.99	6	1167	2	-9	9	7.5711	2	-9	9	-9	43.8	-9	-9	-9
309	2	2247.9	34.672	2	34.672	2	2.068	1.909	27.716	0.005	0.0	2	33.2	2	2.37	2	101.2	2	-9	9	-9	9	165.24	2	1142	2	-9	9	7.5801	2	-9	9	-9	-9	-9	-9	-9
308	2	2501.8	34.688	2	34.687	2	1.878	1.700	27.745	0.004	0.0	2	33.2	2	2.39	2	108.2	2	-9	9	-9	9	167.11	6	1137	2	-9	9	7.5871	2	-9	9	-9	-9	-9	-9	-9
307	2	2749.6	34.693	2	34.692	2	1.798	1.598	27.757	0.004	0.0	2	33.2	2	2.39	2	109.6	2	-9	9	-9	9	168.45	6	1119	2	-9	9	7.5909	2	-9	9	-9	-9	-9	-9	-9
306	2	3002.1	34.699	2	34.699	2	1.707	1.485	27.769	0.003	0.0	2	33.2	2	2.39	2	112.4	2	-9	9	-9	9	172.86	2	1113	2	2285.7	2	7.5957	2	2380	2	-9	36.6	2.5	-9	-9
305	2	3232.4	34.703	2	34.702	2	1.581	1.339	27.783	0.002	0.0	2	33.0	2	2.33	2	116.0	2	-9	9	-9	9	178.07	2	1079	2	-9	9	7.6011	2	-9	9	-9	-9	-9	-9	-9
304	2	3500.5	34.706	2	34.705	2	1.319	1.057	27.806	0.001	0.0	2	32.7	2	2.32	2	122.6	2	-9	9	-9	9	186.66	2	-9	9	-9	9	7.6098	2	-9	9	-9	-9	-9	-9	-9
303	2	3750.2	34.707	2	34.707	2	1.185	0.901	27.817	0.003	0.0	2	32.5	2	2.31	2	123.0	2	-9	9	-9	9	190.75	2	1061	2	-9	9	7.6131	2	-9	9	-9	-9	-9	-9	-9
302	2	3747.6	34.708	2	34.706	2	1.186	0.903	27.817	0.002	0.0	2	32.7	2	2.33	2	122.3	2	-9	9	-9	9	190.98	2	1047	2	-9	9	7.6144	2	-9	9	-9	37.8	-9	-9	-9
301	2	3969.7	34.708	2	34.707	2	1.127	0.822	27.823	0.003	0.0	2	32.7	2	2.31	2	124.9	2	-9	9	-9	9	196.01	2	1052	2	-9	9	7.6153	2	-9	9	-9	38.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 59 DATE 3/15/94 LATITUDE 40°0.2'S Btm Depth: 4053
CAST 1 LONGITUDE 102°58.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.1	33.998	2	33.998	2	15.733	15.731	25.037	0.094	0.2	2	8.0	2	0.67	2	2.2	2	3.007	2	1.521	2	250.05	2	454	2	2036.5	2	7.9226	2	2257	6	2.00	-9	-9	-9	-9
135	2	24.0	34.001	2	34.003	2	15.603	15.599	25.070	0.095	0.2	2	8.0	2	0.73	2	2.3	2	2.988	2	1.522	2	250.99	2	463	2	-9	9	7.9211	2	-9	9	1.90	-9	-9	-9	-9
134	2	48.4	33.995	2	34.001	2	13.021	13.014	25.612	0.101	0.1	2	7.4	2	0.67	2	2.4	2	3.504	6	1.717	6	273.83	2	464	2	-9	9	7.9159	2	-9	9	2.00	-9	-9	-9	-9
133	2	69.4	33.992	2	33.999	2	11.729	11.721	25.859	0.071	0.1	2	7.6	2	0.72	2	2.7	2	3.732	2	1.802	2	277.56	2	475	2	-9	9	7.9049	2	-9	9	1.90	-9	-9	-9	-9
132	2	96.9	34.052	2	34.115	3	10.967	10.956	26.046	0.049	0.3	2	9.3	2	0.76	2	2.8	2	3.586	2	1.713	2	254.90	2	515	2	-9	9	7.8692	2	-9	9	1.60	-9	-9	-9	-9
131	2	122.8	34.144	2	34.166	2	10.265	10.250	26.241	0.036	0.3	2	11.9	2	0.91	2	3.1	2	3.502	2	1.692	2	248.65	2	-9	9	-9	9	7.8406	2	-9	9	-9	-9	-9	-9	-9
130	2	147.7	34.230	2	34.233	2	9.526	9.509	26.432	0.027	0.2	2	14.9	2	1.09	2	3.6	2	3.392	2	1.615	2	239.75	2	-9	9	-9	9	-9	9	-9	9	1.50	-9	-9	-9	-9
129	2	197.8	34.278	2	34.279	2	8.107	8.087	26.694	0.024	0.0	2	18.5	2	1.31	2	5.4	2	3.086	2	1.471	2	239.75	2	-9	9	-9	9	-9	9	-9	9	1.50	-9	-9	-9	-9
128	2	241.9	34.289	2	34.290	2	7.338	7.314	26.815	0.019	0.0	2	20.1	2	1.38	2	6.9	2	3.140	6	1.454	6	246.50	2	703	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	296.6	34.317	2	34.317	2	6.832	6.804	26.907	0.017	0.0	2	20.7	2	1.42	2	8.1	2	-0.006	4	-0.002	4	250.92	2	-9	9	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
126	3	344.9	34.328	2	34.329	2	6.638	6.606	26.943	0.017	0.0	2	21.1	2	1.42	2	8.9	2	2.925	2	1.377	2	254.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	398.4	34.329	2	34.330	2	6.453	6.417	26.969	0.017	0.0	2	21.6	2	1.46	2	9.8	2	2.668	2	1.270	2	255.54	2	-9	9	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	493.9	34.313	2	34.315	2	6.159	6.115	26.995	0.014	0.0	2	22.1	2	1.52	2	10.8	2	2.532	2	1.191	2	257.78	2	713	2	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	597.6	34.295	2	34.295	2	5.825	5.774	27.024	0.010	0.0	2	23.5	2	1.61	2	12.6	2	1.863	2	0.898	2	253.19	2	-9	9	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	698.2	34.273	2	34.274	2	5.421	5.363	27.056	0.012	0.0	2	24.9	2	1.70	2	15.7	2	1.569	6	0.772	6	248.40	2	-9	9	-9	9	-9	9	-9	9	1.30	-9	-9	-9	-9
118	2	796.3	34.272	2	34.272	2	5.063	4.998	27.098	0.011	0.0	2	26.8	2	1.77	2	20.4	2	1.047	2	0.537	2	233.30	2	-9	9	-9	9	-9	9	-9	9	1.20	-9	-9	-9	-9
117	2	896.0	34.280	2	34.280	2	4.621	4.550	27.155	0.011	0.0	2	28.8	2	1.93	2	27.2	2	0.530	2	0.252	2	217.14	2	-9	9	-9	9	-9	9	-9	9	1.10	-9	-9	-9	-9
116	2	997.1	34.307	2	34.308	2	4.139	4.063	27.229	0.010	0.0	2	31.2	2	2.17	2	37.8	2	0.241	2	0.121	2	199.08	2	969	2	-9	9	-9	9	-9	9	1.00	-9	-9	-9	-9
115	2	1098.6	34.348	2	34.348	2	3.723	3.641	27.304	0.010	0.0	2	33.5	2	2.36	2	47.3	2	0.096	2	0.052	2	181.47	2	-9	9	-9	9	-9	9	-9	9	0.80	-9	-9	-9	-9
114	2	1201.1	34.405	2	34.404	2	3.465	3.377	27.375	0.010	0.0	2	35.0	2	2.51	2	58.8	2	0.023	2	0.011	2	158.62	2	-9	9	-9	9	-9	9	-9	9	0.60	-9	-9	-9	-9
113	2	1398.1	34.492	2	34.492	2	3.121	3.020	27.477	0.008	0.0	2	36.7	2	2.59	2	78.0	2	0.005	6	-0.002	6	136.80	2	1292	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	3	1499.2	34.525	2	-9	9	2.919	2.812	27.523	0.008	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1595.5	34.552	2	34.552	2	2.764	2.651	27.558	0.008	0.0	2	36.3	2	2.63	2	90.3	2	0.005	6	-0.001	6	138.21	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
110	2	1998.1	34.627	2	34.627	2	2.262	2.122	27.663	0.006	0.0	2	35.2	2	2.51	2	101.0	2	0.003	2	0.000	2	153.49	2	1206	2	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
109	2	2249.7	34.662	2	34.661	2	2.051	1.892	27.709	0.006	0.0	2	34.3	2	2.43	2	106.0	2	0.000	6	0.000	6	159.83	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2498.2	34.683	2	34.683	2	1.894	1.716	27.740	0.005	0.0	2	33.5	2	2.40	2	111.7	2	3.028	4	1.380	4	164.42	2	1146	2	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
107	2	2746.3	34.690	2	34.688	2	1.814	1.615	27.753	0.004	0.0	2	33.5	2	2.33	2	116.2	2	0.011	2	0.004	2	166.76	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3001.6	34.697	2	34.697	2	1.748	1.526	27.765	0.003	0.0	2	33.4	2	2.39	2	117.1	2	-0.004	2	-0.001	2	171.90	2	1119	2	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
105	2	3249.1	34.702	2	34.702	2	1.648	1.404	27.778	0.003	0.0	2	33.2	2	2.32	2	116.3	2	-0.002	2	-0.001	2	176.76	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3500.8	34.706	2	34.706	2	1.417	1.152	27.799	0.002	0.0	2	33.0	2	2.32	2	121.3	2	0.010	2	0.003	2	183.87	2	1083	2	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
103	2	3500.3	34.706	2	34.705	2	1.416	1.152	27.799	0.002	0.0	2	32.9	2	2.28	2	123.1	2	0.002	6	-0.001	6	183.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3726.9	34.708	2	34.706	2	1.198	0.916	27.816	0.002	0.0	2	32.9	2	2.32	2	128.4	2	0.002	2	0.000	2	190.79	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
101	2	4015.9	34.708	2	34.707	2	1.165	0.853	27.820	0.004	0.0	2	32.8	2	2.32	2	127.6	2	0.003	2	0.003	2	193.85	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 60 DATE 3/16/94 LATITUDE 39°29.9'S Btm Depth: 3950
CAST 1 LONGITUDE 102°59.9'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	12.0	33.982	2	33.978	2	16.162	16.160	24.928	0.092	0.2	2	8.5	2	0.85	2	1.2	2	-9	9	-9	9	247.71	2	454	2	2031.8	2	7.9232	2	2252	6	-9	-9	-9	-9	-9
135	2	25.1	33.998	2	33.998	2	15.704	15.700	25.044	0.101	0.2	2	8.6	2	0.83	2	1.2	2	-9	9	-9	9	250.46	2	463	2	2034.3	2	7.9216	2	2254	2	-9	-9	-9	-9	-9
134	2	51.0	34.002	2	34.005	2	15.469	15.461	25.101	0.097	0.2	2	8.6	2	0.78	2	1.0	2	-9	9	-9	9	252.09	6	459	2	2033.9	2	7.9214	2	2258	2	-9	-9	-9	-9	-9
133	2	75.2	33.995	2	34.002	2	11.739	11.730	25.859	0.103	0.1	2	8.0	2	0.75	2	0.9	2	-9	9	-9	9	278.16	2	477	2	2039.3	2	7.9075	2	2250	2	-9	-9	-9	-9	-9
132	3	99.1	34.038	2	34.041	2	10.602	10.590	26.099	0.070	0.2	2	9.7	2	0.90	2	0.8	2	-9	9	-9	9	271.62	2	-9	9	2053.9	2	-9	9	2256	2	-9	-9	-9	-9	-9
131	2	124.9	34.093	2	34.090	2	9.915	9.901	26.260	0.044	0.2	2	11.7	2	0.98	2	0.7	2	-9	9	-9	9	270.22	2	539	2	2067.7	2	7.8567	2	-9	5	-9	-9	-9	-9	-9
130	2	149.7	34.110	2	34.110	2	9.204	9.187	26.391	0.031	0.3	2	12.8	2	1.07	2	1.7	2	-9	9	-9	9	269.04	2	577	2	2076.1	2	7.8420	2	-9	5	-9	-9	-9	-9	-9
129	2	197.5	34.286	2	34.287	2	8.664	8.643	26.615	0.022	0.0	2	18.0	2	1.33	2	3.1	2	-9	9	-9	9	235.73	2	665	2	2104.9	2	7.7780	2	2269	2	-9	-9	-9	-9	-9
128	2	250.7	34.276	2	34.275	2	7.399	7.375	26.796	0.018	0.0	2	20.5	2	1.47	2	4.3	2	-9	9	-9	9	247.36	2	702	2	2119.8	2	7.7588	2	2270	2	-9	-9	-9	-9	-9
127	2	296.9	34.309	2	34.310	2	6.942	6.914	26.886	0.016	0.0	2	21.4	2	1.52	2	5.4	2	-9	9	-9	9	251.13	2	715	2	2125.9	2	7.7521	2	2275	2	-9	-9	-9	-9	-9
126	2	351.3	34.326	2	34.326	2	6.656	6.624	26.939	0.018	0.0	2	21.4	2	1.53	2	6.7	2	-9	9	-9	9	254.78	2	715	2	2127.9	2	7.7524	2	2278	2	-9	-9	-9	-9	-9
125	2	398.4	34.330	2	34.330	2	6.517	6.481	26.961	0.016	0.0	2	21.6	2	1.54	2	7.3	2	-9	9	-9	9	257.74	2	715	2	2127.9	2	7.7523	2	-9	5	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.4	34.312	2	34.313	2	6.167	6.123	26.993	0.015	0.0	2	22.4	2	1.63	2	8.4	2	-9	9	-9	9	257.32	2	732	2	2132.3	2	7.7471	2	2275	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.3	34.296	2	34.297	2	5.888	5.836	27.017	0.012	0.0	2	23.6	2	1.70	2	9.4	2	-9	9	-9	9	255.63	2	742	2	2143.5	2	7.7399	2	2281	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	700.6	34.275	2	34.276	2	5.481	5.422	27.051	0.012	0.0	2	25.3	2	1.78	2	11.5	2	-9	9	-9	9	249.54	2	784	2	2142.7	2	7.7224	2	2281	2	-9	-9	-9	-9	-9
118	2	801.3	34.267	2	34.268	2	5.049	4.984	27.096	0.010	0.0	2	27.2	2	1.88	2	16.4	2	-9	9	-9	9	236.10	2	836	2	2156.1	2	7.6961	2	2284	2	-9	-9	-9	-9	-9
117	2	902.7	34.278	2	34.279	2	4.613	4.541	27.154	0.010	0.0	2	29.6	2	2.08	2	22.9	2	-9	9	-9	9	216.93	2	928	2	2175.3	2	7.6570	2	2288	2	-9	-9	-9	-9	-9
116	2	997.9	34.302	2	34.302	2	4.207	4.130	27.217	0.010	0.0	2	31.7	2	2.18	2	30.1	2	-9	9	-9	9	201.84	2	991	2	2191.9	2	7.6301	2	2297	6	-9	-9	-9	-9	-9
115	2	1097.1	34.340	2	34.341	2	3.795	3.713	27.290	0.010	0.0	2	33.6	2	2.33	2	40.7	2	-9	9	-9	9	184.42	6	-9	9	-9	9	7.5957	2	-9	9	-9	-9	-9	-9	-9
114	2	1201.9	34.389	2	34.387	2	3.467	3.379	27.362	0.007	0.0	2	35.1	2	2.48	2	50.6	2	-9	9	-9	9	167.98	2	-9	9	-9	9	7.5693	2	-9	9	-9	-9	-9	-9	-9
113	2	1401.6	34.487	2	34.487	2	3.121	3.020	27.474	0.008	0.0	2	37.4	2	2.64	2	71.3	2	-9	9	-9	9	139.11	2	-9	9	-9	9	7.5288	2	-9	9	-9	-9	-9	-9	-9
112	2	1604.6	34.552	2	34.551	2	2.793	2.679	27.556	0.007	0.0	2	37.5	2	2.65	2	86.9	2	-9	9	-9	9	132.63	2	-9	9	-9	9	7.5249	2	-9	9	-9	-9	-9	-9	-9
111	2	1798.7	34.589	2	34.587	2	2.533	2.406	27.609	0.007	0.0	2	36.8	2	2.60	2	95.6	2	-9	9	-9	9	139.99	2	-9	9	-9	9	7.5414	2	-9	9	-9	-9	-9	-9	-9
110	2	1997.9	34.621	2	34.620	2	2.291	2.150	27.656	0.006	0.0	2	35.7	2	2.53	2	99.9	2	-9	9	-9	9	150.61	6	-9	9	-9	9	7.5594	2	-9	9	-9	-9	-9	-9	-9
109	2	2250.8	34.662	2	34.661	2	2.079	1.920	27.707	0.006	0.0	2	34.7	2	2.45	2	102.0	2	-9	9	-9	9	161.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2498.2	34.682	2	34.680	2	1.925	1.746	27.736	0.005	0.0	2	34.5	2	2.40	2	107.8	2	-9	9	-9	9	164.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2729.5	34.690	2	34.689	2	1.827	1.628	27.752	0.004	0.0	2	33.9	2	2.39	2	111.5	2	-9	9	-9	9	167.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2997.4	34.696	2	34.695	2	1.717	1.495	27.767	0.003	0.0	2	33.8	2	2.33	2	113.7	2	-9	9	-9	9	171.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3250.1	34.703	2	34.702	2	1.575	1.332	27.784	0.003	0.0	2	33.5	2	2.28	2	114.5	2	-9	9	-9	9	178.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3496.7	34.706	2	34.705	2	1.329	1.067	27.805	0.002	0.0	2	32.9	2	2.27	2	117.9	2	-9	9	-9	9	186.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3752.6	34.708	2	34.707	2	1.180	0.896	27.817	0.003	0.0	2	33.3	2	2.26	2	122.6	2	-9	9	-9	9	190.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3752.0	34.708	2	34.706	2	1.180	0.896	27.817	0.003	0.0	2	33.1	2	2.30	2	124.6	2	-9	9	-9	9	191.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3993.8	34.708	2	34.708	2	1.179	0.870	27.819	0.004	0.0	2	33.1	2	2.28	2	123.4	2	-9	9	-9	9	192.05	2	-9	9	-9	9	7.6140	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 61 DATE 3/16/94 LATITUDE 39°0.0'S Btm Depth: 3835
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.5	33.892	2	33.892	2	17.961	17.959	24.433	0.089	0.1	2	4.4	2	0.52	2	0.8	2	2.684	2	1.178	4	239.30	2	404	2	2008.8	2	7.9590	2	2247	6	-9	-9	-9	-9	-9
135	2	11.0	33.892	2	33.893	2	17.965	17.963	24.433	0.090	0.2	2	4.5	2	0.48	2	1.1	2	2.696	2	1.376	2	239.35	2	-9	9	2006.6	2	7.9602	2	2251	2	-9	-9	-9	-9	-9
134	2	17.9	33.889	2	33.890	2	17.785	17.782	24.474	0.091	0.1	2	4.5	2	0.46	2	0.9	2	2.719	2	1.377	2	240.66	2	409	2	2006.4	2	7.9584	2	2251	2	-9	-9	-9	-9	-9
133	2	51.4	33.964	2	33.973	2	14.355	14.347	25.313	0.138	0.1	2	3.2	2	0.41	2	1.8	2	3.351	6	1.667	6	276.40	2	409	2	2010.8	2	7.9554	2	2250	2	-9	-9	-9	-9	-9
132	2	71.2	33.958	2	33.957	2	13.118	13.108	25.564	0.109	0.1	2	4.7	2	0.54	2	2.0	2	3.483	6	1.712	6	272.68	2	-9	9	2021.3	2	7.9345	2	2252	2	-9	-9	-9	-9	-9
131	2	95.9	34.021	2	34.023	2	12.323	12.311	25.769	0.068	0.3	2	6.0	2	0.63	2	1.9	2	3.509	6	1.697	6	260.97	2	466	2	2036.2	2	7.9104	2	2253	2	-9	-9	-9	-9	-9
130	2	147.3	34.247	2	34.255	2	11.298	11.279	26.139	0.029	0.4	2	10.4	2	0.86	2	2.3	2	6.241	4	5.420	4	235.35	2	548	2	2073.2	2	7.8515	2	2267	2	-9	-9	-9	-9	-9
129	2	196.3	34.306	2	34.304	2	9.850	9.828	26.439	0.021	0.1	2	14.9	2	1.11	2	2.9	2	3.131	2	1.487	2	229.97	2	621	2	2098.8	2	7.8021	2	2270	2	-9	-9	-9	-9	-9
128	2	246.9	34.316	2	34.311	2	8.648	8.622	26.642	0.019	0.0	2	17.8	2	1.32	2	3.6	2	2.923	2	1.369	2	232.96	2	675	2	2112.8	2	7.7735	2	2271	2	-9	-9	-9	-9	-9
127	2	298.8	34.328	2	34.329	2	7.562	7.533	26.814	0.017	0.0	2	20.4	2	0.76	4	5.2	2	2.543	2	1.201	2	234.60	2	722	2	2125.2	2	7.7480	2	2276	2	-9	-9	-9	-9	-9
126	2	344.5	34.331	2	34.332	2	7.027	6.995	26.893	0.017	0.1	2	21.5	2	1.54	2	12.3	4	2.382	2	1.084	2	239.20	2	735	2	2130.6	2	7.7406	2	-9	5	-9	-9	-9	-9	-9
125	2	398.4	34.338	2	34.341	2	6.687	6.650	26.945	0.016	0.1	2	21.8	2	1.53	2	15.3	4	2.264	2	1.062	2	245.18	2	735	2	2131.1	2	7.7404	2	2279	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	495.4	34.323	2	34.322	2	6.245	6.201	26.992	0.012	0.0	2	22.7	2	1.58	2	16.4	4	1.676	2	0.790	2	247.44	2	740	2	2133.6	2	7.7383	2	2285	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.0	34.297	2	34.298	2	5.865	5.813	27.020	0.013	0.0	2	23.7	2	1.64	2	18.2	4	1.457	2	0.702	2	249.77	2	749	2	2135.8	2	7.7337	2	2279	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.7	34.279	2	34.278	2	5.507	5.447	27.051	0.011	0.0	2	25.4	2	1.65	4	20.1	4	0.988	2	0.493	2	244.55	2	780	2	2160.2	3	7.7192	2	2279	2	-9	-9	-9	-9	-9
118	2	797.1	34.269	2	34.269	2	5.168	5.102	27.084	0.011	0.0	2	27.0	2	1.62	4	23.0	4	0.657	2	0.344	2	234.49	2	825	2	2157.2	2	7.6986	2	2279	2	-9	-9	-9	-9	-9
117	2	892.9	34.275	2	34.274	2	4.730	4.659	27.139	0.012	0.0	2	28.8	2	2.00	2	28.7	4	0.446	2	0.231	2	219.38	2	900	2	2171.9	2	-9	9	2291	2	-9	-9	-9	-9	-9
116	2	997.3	34.301	2	34.301	2	4.248	4.171	27.213	0.010	0.0	2	31.3	2	2.17	2	29.9	2	0.162	2	0.088	2	199.38	2	998	2	2193.3	2	7.6271	2	2298	2	-9	-9	-9	-9	-9
115	2	1094.7	34.344	2	34.344	2	3.884	3.802	27.285	0.010	0.0	2	33.5	2	2.32	2	40.5	2	0.035	2	0.022	2	177.78	2	1111	2	2214.9	2	7.5891	2	2302	2	-9	-9	-9	-9	-9
114	2	1195.5	34.400	2	34.399	2	3.587	3.499	27.359	0.010	0.0	2	35.4	2	2.44	2	53.6	2	0.004	6	0.004	6	157.30	2	1208	2	2239.0	2	7.5557	2	2313	2	-9	-9	-9	-9	-9
113	2	1396.3	34.487	2	34.486	2	3.204	3.102	27.466	0.010	0.0	2	36.8	2	2.63	2	73.0	2	0.004	2	0.000	2	136.63	2	1305	2	2273.6	2	7.5271	2	2339	2	-9	-9	-9	-9	-9
112	2	1596.6	34.545	2	34.544	2	2.843	2.729	27.546	0.008	0.0	2	36.6	2	2.63	2	85.2	2	-0.002	6	-0.002	6	137.08	2	1305	2	2283.1	2	7.5335	2	2351	2	-9	-9	-9	-9	-9
111	2	1795.9	34.585	2	34.585	2	2.558	2.431	27.604	0.006	0.0	2	36.4	2	2.61	2	94.7	2	0.002	2	0.003	2	140.68	2	1256	2	2288.9	2	7.5431	2	2366	2	-9	-9	-9	-9	-9
110	2	1999.6	34.618	2	34.617	2	2.308	2.167	27.653	0.007	0.0	2	35.5	2	2.54	2	102.9	2	-9	9	-9	9	145.95	2	1238	2	2293.1	3	7.5539	2	2373	2	-9	-9	-9	-9	-9
109	2	2248.5	34.660	2	34.659	2	2.096	1.936	27.704	0.006	0.0	2	33.8	2	2.38	2	103.2	2	-9	1	-9	1	161.52	2	1158	2	2283.3	2	7.5769	2	2366	2	-9	-9	-9	-9	-9
108	2	2499.2	34.681	2	34.681	2	1.924	1.745	27.736	0.005	0.0	2	33.5	2	2.35	2	108.6	2	-9	9	-9	9	164.85	6	1146	2	2285.0	2	7.5830	2	2377	2	-9	-9	-9	-9	-9
107	2	2747.3	34.690	2	34.688	2	1.824	1.624	27.752	0.004	0.0	2	33.7	2	2.35	2	110.8	2	0.000	2	0.004	2	167.80	2	1125	2	2287.2	2	7.5888	2	2381	2	-9	-9	-9	-9	-9
106	2	2997.8	34.696	2	34.695	2	1.754	1.532	27.764	0.003	0.0	2	33.3	2	2.33	2	111.4	2	-9	9	-9	9	171.19	6	1117	2	2284.9	2	7.5937	2	2377	2	-9	-9	-9	-9	-9
105	2	3245.6	34.702	2	34.701	2	1.642	1.398	27.778	0.003	0.0	2	33.1	2	2.33	2	113.6	2	0.000	2	0.000	2	176.70	2	1099	2	2283.8	2	7.5999	2	2377	2	-9	-9	-9	-9	-9
104	2	3499.8	34.705	2	34.704	2	1.428	1.163	27.797	0.002	0.0	2	32.7	2	2.29	2	118.7	2	-9	9	-9	9	183.19	2	-9	9	2281.7	2	7.6041	2	2380	2	-9	-9	-9	-9	-9
103	2	3497.8	34.705	2	34.704	2	1.428	1.163	27.797	0.002	0.0	2	32.7	2	2.29	2	119.4	2	-0.011	2	-0.002	2	182.99	2	1087	2	2281.8	2	7.6062	2	2378	2	-9	-9	-9	-9	-9
102	2	3748.8	34.707	2	34.706	2	1.171	0.888	27.818	0.003	0.0	2	32.5	2	2.33	2	123.2	2	-9	9	-9	9	191.62	6	1047	2	2277.8	2	7.6117	2	2380	2	-9	-9	-9	-9	-9
101	2	3852.5	34.708	2	34.707	2	1.156	0.863	27.820	0.003	0.0	2	32.6	2	2.33	2	121.6	2	-0.003	2	0.000	2	192.07	2	1050	2	2279.0	2	7.6135	2	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 62 DATE 3/16/94 LATITUDE 38°30.3'S Btm Depth: 3990
CAST 3 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	11.0	33.960	2	33.961	2	18.828	18.826	24.271	0.082	0.0	2	2.7	2	0.40	2	0.0	2	-9	9	-9	9	234.03	2	387	2	2001.0	2	-9	9	-9	5	2.00	52.4	5.3	0.062	0.023
335	2	25.5	33.962	2	33.962	2	18.685	18.680	24.309	0.092	0.1	2	2.6	2	0.42	2	0.1	2	-9	9	-9	9	235.99	2	387	2	2001.2	2	-9	9	2253	2	-9	57.1	3.9	0.098	0.035
334	2	47.6	33.959	2	33.960	2	18.638	18.630	24.319	0.096	0.0	2	2.6	2	0.37	2	0.1	2	-9	9	-9	9	235.32	2	387	2	2001.7	2	-9	9	-9	5	-9	50.7	3.9	0.088	0.040
333	2	74.5	33.939	2	33.939	2	14.639	14.628	25.234	0.127	0.1	2	5.8	2	0.61	2	0.1	2	-9	9	-9	9	271.29	2	435	2	2024.8	2	-9	9	2256	2	-9	52.5	5.0	0.150	0.084
332	2	99.7	33.969	2	33.970	2	12.905	12.892	25.616	0.059	0.1	2	5.3	2	0.60	2	0.2	2	-9	9	-9	9	268.88	2	442	2	2028.3	2	-9	9	2252	2	-9	48.3	4.8	0.107	0.086
331	2	125.2	34.074	2	34.074	2	12.149	12.133	25.844	0.037	0.4	2	6.6	2	0.72	2	0.9	2	-9	9	-9	9	254.68	2	480	2	2043.9	2	-9	9	2253	2	-9	51.5	-9	0.125	0.109
330	2	151.0	34.190	2	34.185	2	11.331	11.312	26.088	0.033	0.4	2	9.7	2	0.84	2	1.0	2	-9	9	-9	9	241.78	2	531	2	2067.5	2	-9	9	2267	2	-9	-9	-9	0.130	0.110
329	2	204.3	34.319	2	34.315	2	9.839	9.816	26.451	0.019	0.0	2	14.6	2	1.09	2	1.8	2	-9	9	-9	9	229.67	2	618	2	2097.8	2	-9	9	2264	2	-9	45.2	-9	0.028	0.027
328	2	249.1	34.359	2	34.359	2	8.900	8.873	26.636	0.019	0.0	2	17.2	2	1.26	2	2.8	2	-9	9	-9	9	227.71	2	666	2	2113.1	2	-9	9	2277	2	-9	-9	-9	0.004	0.004
327	2	301.5	34.310	2	34.310	2	7.754	7.725	26.773	0.018	0.0	2	19.7	2	1.41	2	3.9	2	-9	9	-9	9	236.31	2	707	2	2121.9	2	-9	9	2290	2	-9	42.0	3.9	0.002	0.004
326	2	348.4	34.315	2	34.315	2	7.060	7.027	26.875	0.018	0.0	2	21.7	2	1.46	2	5.2	2	-9	9	-9	9	236.64	2	735	2	2130.1	2	-9	9	2277	2	-9	-9	-9	-9	-9
325	2	402.8	34.334	2	34.334	2	6.701	6.664	26.940	0.017	0.0	2	21.9	2	1.47	2	6.6	2	-9	9	-9	9	242.23	2	737	2	2132.9	2	-9	9	2277	2	-9	45.9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	3	499.2	34.319	2	34.318	2	6.237	6.193	26.990	0.016	0.0	2	22.8	2	1.55	2	7.7	2	-9	9	-9	9	245.72	2	742	2	2133.2	2	-9	9	2280	2	-9	-9	-9	-9	-9
322	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
321	2	600.5	34.295	2	34.295	2	5.879	5.827	27.017	0.015	0.0	2	23.3	2	1.58	2	8.6	2	-9	9	-9	9	254.29	2	739	2	2133.5	2	-9	9	2282	2	-9	53.7	3.6	-9	-9
320	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
319	2	702.4	34.277	2	34.276	2	5.532	5.473	27.046	0.015	0.0	2	24.6	2	1.61	2	10.2	2	-9	9	-9	9	248.76	2	767	2	2140.5	2	-9	9	2280	2	-9	-9	-9	-9	-9
318	2	799.7	34.266	2	34.265	2	5.111	5.045	27.088	0.013	0.0	2	26.7	2	1.78	2	14.8	2	-9	9	-9	9	233.13	2	824	2	2153.0	2	-9	9	2283	2	-9	45.2	-9	-9	-9
317	2	900.8	34.277	2	34.276	2	4.703	4.631	27.143	0.011	0.0	2	29.2	2	2.00	2	22.4	2	-9	9	-9	9	214.43	2	916	2	2171.3	2	-9	9	2279	2	-9	-9	-9	-9	-9
316	2	995.0	34.302	2	34.301	2	4.323	4.246	27.205	0.010	0.0	2	31.1	2	2.14	2	30.3	2	-9	9	-9	9	196.35	2	996	2	2189.5	2	-9	9	2291	6	-9	46.7	2.2	-9	-9
315	2	1100.8	34.340	2	34.339	2	3.910	3.826	27.279	0.010	0.0	2	33.3	2	2.31	2	40.8	2	-9	9	-9	9	179.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1199.1	34.382	2	34.381	2	3.547	3.459	27.348	0.010	0.0	2	34.8	2	2.41	2	51.5	2	-9	9	-9	9	164.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	2	1402.6	34.488	2	34.489	2	3.164	3.062	27.471	0.010	0.0	2	36.7	2	2.57	2	75.3	2	-9	9	-9	9	134.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
312	2	1608.8	34.550	2	34.548	2	2.823	2.708	27.552	0.008	0.0	2	36.5	2	2.58	2	87.9	2	-9	9	-9	9	134.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
311	2	1804.8	34.589	2	34.587	2	2.514	2.387	27.610	0.007	0.0	2	35.6	2	2.52	2	94.9	2	-9	9	-9	9	144.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	1993.8	34.620	2	34.620	2	2.288	2.148	27.656	0.006	0.0	2	35.2	2	2.47	2	100.0	2	-9	9	-9	9	153.03	2	-9	9	-9	9	-9	9	-9	9	-9	42.1	-9	-9	-9
309	2	2249.9	34.657	2	34.656	2	2.055	1.896	27.705	0.006	0.0	2	34.0	2	2.36	2	107.5	2	-9	9	-9	9	158.67	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2496.5	34.680	2	34.679	2	1.903	1.724	27.736	0.005	0.0	2	33.9	2	2.35	2	112.1	2	-9	9	-9	9	164.68	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2658.2	34.686	2	34.685	2	1.845	1.653	27.747	0.004	0.0	2	33.7	2	2.35	2	112.7	2	-9	9	-9	9	166.44	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	2992.7	34.693	2	34.693	2	1.773	1.550	27.760	0.003	0.0	2	33.4	2	2.30	2	114.7	2	-9	9	-9	9	169.40	2	-9	9	-9	9	-9	9	-9	9	-9	35.0	2.0	-9	-9
305	2	3251.4	34.698	2	34.698	2	1.663	1.418	27.774	0.003	0.0	2	32.9	2	2.27	2	117.9	2	-9	9	-9	9	174.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3493.0	34.703	2	34.702	2	1.460	1.196	27.794	0.002	0.0	2	32.8	2	2.33	2	120.7	2	-9	9	-9	9	181.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3743.1	34.707	2	34.707	2	1.190	0.907	27.816	0.003	0.0	2	31.9	2	2.30	2	124.9	2	-9	9	-9	9	190.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	3743.4	34.707	2	34.706	2	1.189	0.906	27.816	0.003	0.0	2	32.5	2	2.28	2	124.3	2	-9	9	-9	9	191.09	2	-9	9	-9	9	-9	9	-9	9	-9	38.2	-9	-9	-9
301	2	4037.2	34.708	2	34.707	2	1.139	0.826	27.822	0.004	0.0	2	32.6	2	2.26	2	128.2	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	41.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 63 DATE 3/16/94 LATITUDE 37°59.9'S Btm Depth: 4141
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.5	33.900	2	33.900	2	18.812	18.810	24.229	0.089	0.0	2	2.8	2	0.39	2	0.4	2	2.611	2	1.329	2	236.10	2	391	2	2001.1	2	7.9731	2	2251	6	2.00	-9	-9	-9	-9
135	2	25.2	33.901	2	33.901	2	18.773	18.769	24.239	0.099	0.0	2	2.8	2	0.44	2	0.3	2	2.597	2	1.325	2	236.97	2	-9	9	-9	9	7.9731	2	-9	9	-9	-9	-9	-9	-9
134	2	51.1	33.917	2	33.918	2	15.564	15.556	25.014	0.126	0.0	2	2.8	2	0.43	2	0.4	2	3.177	2	1.547	2	270.71	2	395	2	-9	9	7.9661	2	-9	9	-9	-9	-9	-9	-9
133	2	76.4	33.924	2	33.925	2	13.839	13.828	25.391	0.076	0.1	2	3.5	2	0.49	2	0.6	2	3.446	2	1.731	2	271.12	2	-9	9	-9	9	7.9503	2	-9	9	-9	-9	-9	-9	-9
132	2	99.3	33.932	2	33.932	2	12.398	12.385	25.686	0.051	0.2	2	5.8	2	0.61	2	0.6	2	3.450	2	1.669	2	265.89	2	461	2	-9	9	7.9189	2	-9	9	-9	-9	-9	-9	-9
131	2	124.5	34.023	2	34.017	2	11.759	11.743	25.878	0.038	0.5	2	7.6	2	0.77	2	1.0	2	-9	1	-9	1	256.38	2	-9	9	-9	9	7.8899	2	-9	9	-9	-9	-9	-9	-9
130	2	147.6	34.146	2	34.143	2	11.102	11.084	26.095	0.031	0.5	2	10.3	2	0.93	2	1.0	2	3.485	2	1.635	2	245.19	2	542	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	2	198.3	34.255	2	34.255	2	9.574	9.552	26.446	0.023	0.0	2	15.5	2	1.20	2	2.1	2	3.206	2	1.500	2	232.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	246.9	34.305	2	34.308	2	8.502	8.476	26.656	0.019	0.0	2	17.8	2	1.30	2	3.2	2	2.861	2	1.321	2	233.13	2	682	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	300.7	34.334	2	34.333	2	7.632	7.602	26.809	0.019	0.0	2	19.8	2	1.43	2	4.7	2	2.542	2	1.176	2	235.63	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	349.4	34.344	2	34.344	2	7.088	7.055	26.895	0.017	0.0	2	21.0	2	1.56	2	6.2	2	2.293	2	1.058	2	239.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	396.8	34.343	2	34.343	2	6.764	6.727	26.939	0.016	0.0	2	21.2	2	1.58	2	6.9	2	2.383	2	1.127	2	246.62	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.2	34.328	2	34.326	2	6.331	6.286	26.985	0.013	0.0	2	22.2	2	1.58	2	8.1	2	2.005	2	0.931	2	250.28	2	734	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	597.8	34.303	2	34.302	2	5.945	5.893	27.016	0.015	0.0	2	23.0	2	1.63	2	9.5	2	1.647	2	0.766	2	250.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	697.7	34.279	2	34.279	2	5.529	5.470	27.049	0.014	0.0	2	24.5	2	1.75	2	11.6	2	1.280	2	0.617	2	247.24	2	774	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	795.8	34.268	2	34.267	2	5.094	5.028	27.092	0.013	0.0	2	26.6	2	1.89	2	15.7	2	0.717	6	0.360	6	234.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	898.1	34.277	2	34.277	2	4.685	4.613	27.146	0.012	0.0	2	29.1	2	2.03	2	22.0	2	0.373	2	0.187	2	215.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	999.5	34.304	2	34.303	2	4.235	4.158	27.216	0.011	0.0	2	31.2	2	2.16	2	31.3	2	0.135	6	0.079	6	197.36	2	1001	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1200.3	34.391	2	34.389	2	3.577	3.489	27.353	0.010	0.0	2	35.0	2	2.49	2	52.3	2	0.010	2	0.003	2	161.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1394.8	34.490	2	34.488	2	3.200	3.099	27.468	0.010	0.0	2	36.9	2	2.67	2	73.8	2	-9	1	-9	1	135.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1595.7	34.548	2	34.547	2	2.848	2.734	27.548	0.008	0.0	2	36.6	2	2.62	2	87.6	2	-0.003	2	0.000	2	134.23	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1797.8	34.587	2	34.585	2	2.515	2.388	27.609	0.007	0.0	2	35.6	2	2.52	2	94.5	2	-0.002	2	-0.002	2	148.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1994.7	34.625	2	34.624	2	2.257	2.117	27.662	0.006	0.0	2	34.2	2	2.49	2	100.5	2	0.042	4	0.002	2	157.23	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2247.8	34.664	2	34.663	2	2.008	1.850	27.715	0.005	0.0	2	34.0	2	2.46	2	107.4	2	0.001	2	0.000	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	3	2498.5	34.680	2	34.678	2	1.866	1.688	27.739	0.005	0.0	2	33.9	2	2.44	2	111.9	2	-9	9	-9	9	165.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2748.5	34.686	2	34.685	2	1.807	1.608	27.750	0.004	0.0	2	33.7	2	2.42	2	115.3	2	-0.005	2	0.000	2	166.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2995.5	34.691	2	34.689	2	1.762	1.540	27.759	0.004	0.0	2	33.5	2	2.40	2	117.4	2	-9	9	-9	9	169.09	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3243.6	34.696	2	34.695	2	1.667	1.423	27.772	0.003	0.0	2	33.2	2	2.44	2	118.2	2	-0.007	2	-0.002	2	173.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3497.6	34.704	2	34.702	2	1.443	1.178	27.795	0.003	0.0	2	32.9	2	2.39	2	119.8	2	-9	9	-9	9	182.16	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3746.6	34.707	2	34.706	2	1.225	0.941	27.814	0.003	0.0	2	32.9	2	2.33	2	124.5	2	-0.002	2	0.001	2	189.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3998.2	34.708	2	34.707	2	1.148	0.839	27.821	0.004	0.0	2	32.7	2	2.31	2	126.9	2	-9	9	-9	9	192.86	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3999.3	34.708	2	34.706	2	1.148	0.839	27.821	0.004	0.0	2	32.8	2	2.36	2	126.1	2	-0.007	2	0.000	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4192.1	34.708	2	34.707	2	1.156	0.825	27.822	0.006	0.0	2	33.0	2	2.33	2	124.2	2	-0.005	2	0.000	2	193.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 64 DATE 3/17/94 LATITUDE 37°29.9'S Btm Depth: 3538
CAST 1 LONGITUDE 102°59.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.0	33.905	2	33.911	2	18.684	18.682	24.264	0.092	0.1	2	3.3	2	0.38	2	0.0	2	2.588	2	1.327	2	235.96	2	394	2	2002.3	2	7.9696	2	2247	2	-9	-9	-9	-9	-9
135	2	25.0	33.909	2	33.912	2	18.700	18.696	24.264	0.091	0.1	2	3.2	2	0.32	2	0.0	2	-9	9	-9	9	235.93	2	392	2	2002.8	2	7.9698	2	-9	5	-9	-9	-9	-9	-9
134	2	50.4	34.095	2	34.098	2	16.425	16.417	24.956	0.130	0.0	2	0.9	2	0.16	2	0.0	2	3.104	2	1.521	2	272.13	2	377	2	2005.3	2	7.9845	2	2244	3	-9	-9	-9	-9	-9
133	2	68.1	34.085	2	34.086	2	14.960	14.949	25.278	0.110	0.0	2	1.5	2	0.26	2	0.2	2	-9	9	-9	9	272.30	2	398	3	2008.7	2	7.9702	2	2256	2	-9	-9	-9	-9	-9
132	2	98.1	33.989	2	33.993	2	12.950	12.937	25.623	0.059	0.2	2	5.0	2	0.51	2	0.3	2	3.413	2	1.676	2	263.16	2	449	2	2028.8	2	7.9265	2	2246	2	-9	-9	-9	-9	-9
131	2	126.1	34.045	2	34.049	2	12.108	12.092	25.830	0.046	0.3	2	6.2	2	0.56	2	0.0	2	-9	9	-9	9	259.03	2	478	2	2042.3	2	7.9043	2	2247	3	-9	-9	-9	-9	-9
130	2	148.1	34.171	2	34.172	2	11.275	11.256	26.083	0.032	0.4	2	9.3	2	0.75	2	0.3	2	3.425	2	1.624	2	244.45	2	536	2	2067.4	2	7.8608	2	2259	2	-9	-9	-9	-9	-9
129	2	200.9	34.336	2	34.336	2	10.179	10.156	26.407	0.022	0.0	2	14.2	2	1.02	2	1.4	2	-9	9	-9	9	227.41	2	616	2	2096.6	2	7.8100	2	2276	2	-9	-9	-9	-9	-9
128	2	247.3	34.280	2	34.280	2	8.587	8.561	26.623	0.020	0.0	2	17.9	2	1.24	2	2.4	2	3.136	2	1.469	2	235.25	2	671	2	2111.3	2	7.7755	2	2274	2	-9	-9	-9	-9	-9
127	2	299.4	34.321	2	34.322	2	7.672	7.643	26.793	0.020	0.0	2	19.8	2	1.38	2	4.4	2	-9	9	-9	9	237.54	2	710	2	2123.3	2	7.7544	2	2266	2	-9	-9	-9	-9	-9
126	2	354.3	34.321	2	34.320	2	6.917	6.884	26.900	0.017	0.0	2	21.3	2	1.47	2	5.9	2	2.502	2	1.212	2	241.21	2	731	2	2128.9	2	7.7422	2	2274	2	-9	-9	-9	-9	-9
125	2	399.1	34.330	2	34.330	2	6.674	6.637	26.940	0.016	0.0	2	21.7	2	1.51	2	6.7	2	2.559	2	1.187	2	248.71	2	726	2	2128.6	2	7.7448	2	2279	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	498.3	34.317	2	34.318	2	6.216	6.171	26.991	0.012	0.0	2	22.9	2	1.59	2	8.0	2	2.058	2	0.955	2	251.62	2	734	3	2133.5	2	7.7416	2	2280	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	605.8	34.294	2	34.294	2	5.838	5.786	27.021	0.010	0.0	2	23.6	2	1.59	2	9.4	2	1.700	2	0.806	2	252.01	2	745	2	2136.9	2	7.7347	2	-9	5	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	701.0	34.275	2	34.276	2	5.505	5.445	27.048	0.013	0.0	2	25.3	2	1.70	2	11.4	2	1.392	2	0.654	2	248.52	2	770	3	2142.6	2	7.7239	2	2277	2	-9	-9	-9	-9	-9
118	2	799.7	34.265	2	34.266	2	5.134	5.068	27.085	0.011	0.0	2	26.5	2	1.84	2	14.8	2	0.896	2	0.438	2	237.28	2	820	2	2151.7	2	7.6992	2	2281	2	-9	-9	-9	-9	-9
117	2	900.3	34.275	2	34.275	2	4.649	4.577	27.148	0.011	0.0	2	29.5	2	1.99	2	21.8	2	0.421	3	0.118	3	217.57	2	901	2	2172.5	2	7.6559	2	2288	2	-9	-9	-9	-9	-9
116	2	998.8	34.304	2	34.304	2	4.187	4.110	27.221	0.010	0.0	2	29.3	2	2.24	2	31.3	2	0.154	2	0.090	2	198.28	2	994	2	2193.5	2	7.6231	2	2293	6	-9	-9	-9	-9	-9
115	2	1099.4	34.343	2	34.343	2	3.806	3.724	27.291	0.010	0.0	2	32.7	2	2.33	2	43.1	2	-9	9	-9	9	180.47	6	-9	9	-9	9	7.5915	2	-9	9	-9	-9	-9	-9	-9
114	2	1196.3	34.391	2	34.390	2	3.531	3.443	27.357	0.010	0.0	2	34.8	2	2.49	2	54.5	2	0.014	2	0.014	2	162.36	2	-9	9	-9	9	7.5612	2	-9	9	-9	-9	-9	-9	-9
113	2	1297.6	34.446	2	34.446	2	3.329	3.235	27.421	0.010	0.0	2	36.6	2	2.60	2	65.6	2	-9	9	-9	9	144.20	2	-9	9	-9	9	7.5348	2	-9	9	-9	-9	-9	-9	-9
112	2	1396.5	34.498	2	34.497	2	3.142	3.042	27.481	0.009	0.0	2	37.1	2	2.68	2	77.3	2	-0.003	2	-0.001	2	132.62	2	-9	9	-9	9	7.5205	2	-9	9	-9	-9	-9	-9	-9
111	2	1501.9	34.534	2	34.533	2	2.955	2.847	27.527	0.008	0.0	2	37.4	2	2.66	2	86.4	2	-9	9	-9	9	130.40	2	-9	9	-9	9	7.5216	2	-9	9	-9	-9	-9	-9	-9
110	2	1598.5	34.555	2	34.553	2	2.815	2.701	27.556	0.008	0.0	2	36.9	2	2.62	2	92.4	2	-9	9	-9	9	131.87	6	-9	9	-9	9	7.5261	2	-9	9	-9	-9	-9	-9	-9
109	2	1800.9	34.593	2	34.592	2	2.500	2.373	27.615	0.007	0.0	2	36.4	2	2.61	2	98.0	2	-0.005	2	-0.002	2	140.97	2	-9	9	-9	9	7.5440	2	-9	9	-9	-9	-9	-9	-9
108	2	1995.8	34.624	2	34.625	2	2.259	2.119	27.661	0.006	0.0	2	35.2	2	2.53	2	100.4	2	-9	9	-9	9	152.57	2	-9	9	-9	9	7.5618	2	-9	9	-9	-9	-9	-9	-9
107	2	2246.7	34.660	2	34.659	2	2.038	1.880	27.709	0.005	0.0	2	34.0	2	2.37	2	106.0	2	-9	9	-9	9	161.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2497.8	34.680	2	34.679	2	1.862	1.684	27.739	0.005	0.0	2	33.8	2	2.37	2	113.8	2	-9	9	-9	9	164.47	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2747.3	34.685	2	34.683	2	1.805	1.606	27.750	0.004	0.0	2	34.0	2	2.39	2	114.9	2	-9	9	-9	9	165.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2999.9	34.692	2	34.690	2	1.747	1.525	27.761	0.003	0.0	2	34.0	2	2.35	2	115.0	2	-9	9	-9	9	169.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3244.8	34.697	2	34.697	2	1.659	1.415	27.773	0.003	0.0	2	33.5	2	2.32	2	117.7	2	-9	9	-9	9	173.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3246.3	34.697	2	34.695	2	1.656	1.411	27.773	0.003	0.0	2	33.8	2	2.36	2	117.6	2	-9	9	-9	9	173.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3529.1	34.703	2	34.702	2	1.435	1.168	27.795	0.003	0.0	2	33.2	2	2.35	2	120.6	2	-9	9	-9	9	182.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 65 DATE 3/17/94 LATITUDE 37°0.0'S Btm Depth: 4027
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	12.0	34.062	2	34.062	2	19.551	19.548	24.164	-9	0.0	2	1.6	2	0.30	2	0.0	2	-9	9	-9	9	232.68	2	-9	9	2000.4	2	7.9879	2	2256	2	-9	55.4	-9	-9	-9
123	2	24.9	34.063	2	34.064	2	19.545	19.541	24.166	-9	0.0	2	1.5	2	0.29	2	0.0	2	-9	9	-9	9	232.95	2	-9	9	1998.4	2	7.9893	2	2256	2	-9	57.0	-9	-9	-9
122	2	45.6	34.066	2	-9	9	19.360	19.352	24.218	-9	0.0	2	1.5	2	0.26	2	0.0	2	-9	9	-9	9	236.54	2	-9	9	1998.8	2	-9	9	2256	2	-9	-9	-9	-9	-9
121	3	95.7	34.013	2	34.012	2	13.682	13.669	25.493	-9	0.1	2	3.5	2	0.44	2	0.1	2	-9	9	-9	9	-9	1	-9	9	2020.5	2	-9	9	2249	2	-9	49.3	-9	-9	-9
120	2	146.8	34.232	2	34.258	3	12.670	12.651	25.867	-9	0.5	2	6.2	2	0.65	2	0.4	2	-9	9	-9	9	238.24	2	-9	9	2054.0	2	7.8934	2	2264	2	-9	45.7	-9	-9	-9
119	2	194.5	34.266	2	34.282	2	10.893	10.869	26.227	-9	0.0	2	11.9	2	0.93	2	0.9	2	-9	9	-9	9	231.26	2	-9	9	2083.3	2	7.8342	2	2270	2	-9	45.4	-9	-9	-9
118	2	296.8	34.306	2	34.306	2	8.057	8.027	26.725	-9	0.0	2	18.7	2	1.31	2	3.0	2	-9	9	-9	9	236.43	2	-9	9	2118.4	2	7.7635	2	2268	2	-9	38.7	-9	-9	-9
117	2	396.0	34.335	2	34.334	2	6.903	6.866	26.913	-9	0.0	2	21.5	2	1.52	2	5.8	2	-9	9	-9	9	241.41	2	-9	9	2131.2	2	7.7393	2	2279	2	-9	-9	-9	-9	-9
116	2	495.7	34.332	2	34.332	2	6.426	6.382	26.975	-9	0.0	2	22.6	2	1.57	2	7.2	2	-9	9	-9	9	247.99	2	-9	9	2132.8	2	7.7408	2	2281	2	-9	-9	-9	-9	-9
115	2	598.3	34.306	2	34.306	2	5.977	5.925	27.013	-9	0.0	2	23.4	2	1.60	2	8.5	2	-9	9	-9	9	247.93	2	-9	9	2136.4	2	7.7327	2	2274	2	-9	-9	-9	-9	-9
114	2	698.2	34.281	2	34.283	2	5.550	5.490	27.048	-9	0.0	2	24.7	2	1.69	2	10.9	2	-9	9	-9	9	243.74	2	-9	9	2142.5	2	7.7185	2	2274	2	-9	-9	-9	-9	-9
113	2	795.8	34.267	2	34.267	2	5.164	5.098	27.083	-9	0.0	2	26.3	2	1.82	2	14.0	2	-9	9	-9	9	236.85	2	-9	9	2151.3	2	7.6992	2	2276	2	-9	-9	-9	-9	-9
112	2	898.2	34.274	2	34.277	2	4.679	4.607	27.144	-9	0.0	2	28.9	2	2.01	2	21.0	2	-9	9	-9	9	217.96	2	-9	9	2170.7	2	7.6625	2	2302	3	-9	-9	-9	-9	-9
111	2	998.8	34.301	2	34.302	2	4.223	4.146	27.215	-9	0.0	2	30.9	2	2.13	2	30.0	2	-9	9	-9	9	199.81	2	-9	9	2190.6	2	7.6264	2	2297	2	-9	-9	-9	-9	-9
110	2	1206.3	34.407	2	34.408	2	3.471	3.383	27.376	-9	0.0	2	34.9	2	2.46	2	55.9	2	-9	9	-9	9	156.54	2	-9	9	2241.5	2	7.5528	2	2315	2	-9	-9	-9	-9	-9
109	4	1390.8	34.498	2	-9	9	3.166	3.066	27.478	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1605.0	34.558	2	34.557	2	2.758	2.645	27.564	-9	0.0	2	36.3	2	2.58	2	88.8	2	-9	9	-9	9	138.51	2	-9	9	2282.7	2	7.5369	2	2353	2	-9	-9	-9	-9	-9
107	2	1887.6	34.605	2	34.605	2	2.376	2.244	27.636	-9	0.0	2	34.9	2	2.47	2	95.1	2	-9	9	-9	9	153.21	2	-9	9	2280.7	2	7.5617	2	2368	2	-9	-9	-9	-9	-9
106	2	2207.1	34.659	2	34.659	2	2.038	1.883	27.707	-9	0.0	2	34.2	2	2.36	2	106.1	2	-9	9	-9	9	161.74	2	-9	9	2284.9	2	7.5776	2	2371	2	-9	-9	-9	-9	-9
105	2	2601.6	34.684	2	34.687	2	1.831	1.644	27.746	-9	0.0	2	34.1	2	2.36	2	114.7	2	-9	9	-9	9	165.34	2	-9	9	2287.8	2	7.5884	2	2387	2	-9	-9	-9	-9	-9
104	2	3002.4	34.692	2	34.693	2	1.759	1.536	27.760	-9	0.0	2	33.6	2	2.37	2	114.8	2	-9	9	-9	9	169.33	2	-9	9	-9	9	7.5923	2	2382	2	-9	-9	-9	-9	-9
103	2	3389.9	34.699	2	34.698	2	1.552	1.295	27.783	-9	0.0	2	33.5	2	2.32	2	119.0	2	-9	9	-9	9	176.99	2	-9	9	2286.1	2	7.6014	2	2385	2	-9	-9	-9	-9	-9
102	2	3802.1	34.707	2	34.707	2	1.210	0.920	27.815	-9	0.0	2	33.2	2	2.30	2	126.0	2	-9	9	-9	9	190.02	2	-9	9	2280.8	2	7.6122	2	-9	5	-9	-9	-9	-9	-9
101	2	4094.4	34.707	2	34.707	2	1.219	0.898	27.816	-9	0.0	2	33.1	2	2.26	2	125.9	2	-9	9	-9	9	190.82	2	-9	9	2281.6	2	7.6130	2	2390	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 66 DATE 3/17/94 LATITUDE 36°30.0'S Btm Depth: 3510
CAST 2 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
224	2	11.5	34.121	2	34.124	2	19.848	19.846	24.132	-9	0.0	2	1.4	2	0.27	2	1.1	2	2.452	2	1.267	2	230.68	2	371	2	1999.4	2	-9	9	2254	2	-9	73.3	-9	-9	-9
223	2	24.5	34.121	2	34.122	2	19.849	19.844	24.132	-9	0.0	2	1.4	2	0.29	2	1.2	2	2.418	2	1.243	2	231.84	2	370	2	2000.4	2	-9	9	2262	2	-9	72.2	-9	-9	-9
222	2	49.4	34.052	2	-9	9	17.765	17.757	24.606	-9	0.0	2	1.4	2	0.32	2	1.2	2	2.720	2	1.388	2	251.07	2	378	2	2000.6	2	-9	9	2258	2	-9	-9	-9	-9	-9
221	2	100.6	34.010	2	34.012	2	13.510	13.496	25.526	-9	0.1	2	3.5	2	0.46	2	1.4	2	3.329	2	1.644	2	261.12	2	428	2	2021.5	2	-9	9	2251	2	-9	61.2	-9	-9	-9
220	2	149.3	34.191	2	34.189	2	12.072	12.053	25.951	-9	0.6	2	8.1	2	0.72	2	1.5	2	3.297	2	1.621	2	241.23	2	515	2	2059.8	2	-9	9	2262	2	-9	53.0	-9	-9	-9
219	2	199.4	34.289	2	34.291	2	10.559	10.536	26.304	-9	0.0	2	13.3	2	1.01	2	2.3	2	3.183	2	1.529	2	230.15	2	593	2	2086.4	2	-9	9	2252	2	-9	47.0	-9	-9	-9
218	2	299.8	34.312	2	34.311	2	7.922	7.892	26.750	-9	0.0	2	19.9	2	1.42	2	5.0	2	2.511	2	1.169	2	228.95	2	720	2	-9	9	-9	9	-9	9	-9	43.5	-9	-9	-9
217	2	400.7	34.329	2	34.330	2	6.657	6.621	26.941	-9	0.0	2	21.9	2	1.54	2	7.3	2	2.503	2	1.190	2	249.18	2	728	2	2130.9	2	-9	9	2279	2	-9	43.9	-9	-9	-9
216	2	501.1	34.320	2	-9	9	6.272	6.227	26.986	-9	0.0	2	23.1	2	1.54	2	8.5	2	2.280	2	1.078	2	253.93	2	726	2	2131.3	2	-9	9	2279	2	-9	-9	-9	-9	-9
215	2	601.5	34.296	2	34.298	2	5.883	5.831	27.017	-9	0.0	2	23.6	2	1.60	2	9.8	2	1.784	2	0.854	2	252.48	2	743	2	2134.6	2	-9	9	2280	2	-9	47.1	-9	-9	-9
214	2	702.1	34.275	2	34.277	2	5.478	5.418	27.051	-9	0.0	2	25.1	2	1.72	2	11.9	2	1.240	2	0.602	2	247.76	2	778	2	2141.7	2	-9	9	2282	2	-9	44.9	-9	-9	-9
213	2	804.0	34.265	2	34.266	2	5.043	4.977	27.095	-9	0.0	2	27.2	2	1.88	2	16.0	2	0.765	2	0.395	2	234.30	2	836	2	2155.7	2	-9	9	2282	2	-9	-9	-9	-9	-9
212	2	900.0	34.275	2	-9	9	4.614	4.543	27.152	-9	-9	9	-9	9	-9	9	-9	9	0.417	2	0.216	2	217.00	2	918	2	2172.5	2	-9	9	2289	2	-9	-9	-9	-9	-9
211	2	1004.6	34.310	2	34.310	2	4.095	4.018	27.235	-9	0.0	2	32.1	2	2.17	2	33.1	2	0.142	2	0.078	2	195.37	2	1021	2	2193.3	2	-9	9	2299	2	-9	47.7	-9	-9	-9
210	2	1199.6	34.402	2	34.403	2	3.473	3.385	27.372	-9	0.0	2	35.7	2	2.45	2	55.6	2	0.009	2	0.007	2	159.00	2	1212	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
209	2	1402.4	34.504	2	34.504	2	3.107	3.007	27.488	-9	0.0	2	37.7	2	2.62	2	77.5	2	-0.003	2	0.000	2	133.12	2	1331	3	-9	9	-9	9	-9	9	-9	41.5	-9	-9	-9
208	2	1700.2	34.577	2	34.577	2	2.593	2.474	27.594	-9	0.0	2	36.4	2	2.55	2	92.7	2	0.000	2	0.003	2	143.25	2	1255	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
207	2	1993.2	34.630	2	34.628	2	2.223	2.083	27.669	-9	0.0	2	34.7	2	2.36	2	100.5	2	0.002	2	0.000	2	156.07	2	1189	3	-9	9	-9	9	-9	9	-9	39.0	-9	-9	-9
206	2	2301.9	34.668	2	34.667	2	1.971	1.809	27.720	-9	0.0	2	34.4	2	2.39	2	109.9	2	0.000	2	0.004	2	162.92	2	1151	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
205	2	2596.6	34.682	2	34.681	2	1.822	1.636	27.745	-9	0.0	2	34.1	2	2.38	2	114.8	2	0.001	2	0.002	2	165.20	2	1138	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
204	2	2896.8	34.688	2	34.687	2	1.765	1.552	27.756	-9	0.0	2	34.1	2	2.34	2	116.5	2	-0.002	2	0.006	2	166.67	2	1122	2	-9	9	-9	9	-9	9	-9	38.0	-9	-9	-9
203	2	3201.4	34.693	2	34.692	2	1.675	1.435	27.768	-9	0.0	2	33.6	2	2.30	2	118.5	2	0.003	2	0.004	2	172.15	2	1109	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
202	2	3400.4	34.698	2	34.698	2	1.565	1.307	27.781	-9	0.0	2	33.4	2	2.28	2	119.3	2	0.002	2	0.003	2	177.10	2	1088	2	-9	9	-9	9	-9	9	-9	39.4	-9	-9	-9
201	2	3529.4	34.702	2	34.701	2	1.393	1.126	27.798	-9	0.0	2	33.0	2	2.32	2	120.4	2	-0.003	2	0.002	2	182.73	2	1077	2	-9	9	-9	9	-9	9	-9	38.6	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 67 DATE 3/17/94 LATITUDE 35°59.6'S Btm Depth: 3700
CAST 1 LONGITUDE 102°59.5'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	13.9	34.117	2	-9	5	20.155	20.152	24.048	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	229.92	2	374	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	25.4	34.115	2	-9	5	20.156	20.151	24.047	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	230.02	2	373	2	2000.4	2	-9	9	-9	5	-9	-9	-9	-9	-9
122	2	49.6	34.023	2	-9	5	16.316	16.308	24.926	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	270.62	2	399	2	-9	9	-9	9	-9	9	2.00	-9	-9	-9	-9
121	3	77.1	34.083	2	-9	9	14.259	14.248	25.426	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	98.8	34.037	2	34.049	2	13.151	13.137	25.620	-9	0.1	2	4.1	2	0.53	2	1.1	2	-9	9	-9	9	264.39	2	430	2	-9	9	7.9344	2	-9	9	1.90	-9	-9	-9	-9
119	2	199.8	34.317	2	34.319	2	10.117	10.094	26.402	-9	0.0	2	14.2	2	1.09	2	2.1	2	-9	9	-9	9	228.61	2	608	2	-9	9	7.8101	2	-9	9	1.50	-9	-9	-9	-9
118	2	300.4	34.319	2	34.320	2	7.742	7.712	26.782	-9	0.0	2	20.1	2	1.44	2	4.8	2	-9	9	-9	9	233.04	2	706	2	-9	9	7.7502	2	-9	9	1.40	-9	-9	-9	-9
117	2	402.3	34.332	2	34.333	2	6.658	6.621	26.944	-9	0.0	2	22.0	2	1.54	2	7.1	2	-9	9	-9	9	245.21	2	734	3	-9	9	7.7397	2	-9	9	1.60	-9	-9	-9	-9
116	2	493.5	34.317	2	34.322	3	6.231	6.187	26.989	-9	0.0	2	22.6	2	1.57	2	7.9	2	-9	9	-9	9	249.52	2	731	2	-9	9	7.7408	2	-9	9	1.40	-9	-9	-9	-9
115	2	598.8	34.293	2	34.295	2	5.843	5.791	27.020	-9	0.0	2	23.7	2	1.66	2	9.4	2	-9	9	-9	9	250.41	2	749	3	-9	9	7.7328	2	-9	9	-9	-9	-9	-9	-9
114	2	697.1	34.273	2	34.274	2	5.444	5.386	27.054	-9	0.0	2	25.1	2	1.78	2	11.5	2	-9	9	-9	9	245.50	2	772	2	-9	9	7.7171	2	-9	9	1.40	-9	-9	-9	-9
113	2	797.9	34.266	2	34.267	2	5.076	5.010	27.092	-9	0.0	2	27.1	2	1.90	2	15.2	2	-9	9	-9	9	234.08	2	829	3	-9	9	7.6946	2	-9	9	1.30	-9	-9	-9	-9
112	2	886.5	34.272	2	34.272	2	4.648	4.577	27.145	-9	0.0	2	29.6	2	2.04	2	21.5	2	-9	9	-9	9	218.52	2	897	2	-9	9	7.6608	2	-9	9	1.10	-9	-9	-9	-9
111	2	990.8	34.300	2	34.301	2	4.203	4.127	27.216	-9	0.0	2	31.0	2	2.19	2	30.8	2	-9	9	-9	9	199.73	2	994	2	-9	9	7.6254	2	-9	9	1.00	-9	-9	-9	-9
110	2	1199.8	34.406	2	34.405	2	3.484	3.396	27.374	-9	0.0	2	35.5	2	2.49	2	55.2	2	-9	9	-9	9	156.50	2	-9	9	-9	9	7.5501	2	-9	9	0.60	-9	-9	-9	-9
109	2	1394.6	34.501	2	34.502	2	3.119	3.019	27.485	-9	0.0	2	37.7	2	2.68	2	76.1	2	-9	9	-9	9	132.47	2	-9	9	-9	9	7.5209	2	-9	9	-9	-9	-9	-9	-9
108	2	1696.8	34.578	2	34.580	2	2.575	2.456	27.597	-9	0.0	2	35.9	2	2.59	2	89.8	2	-9	9	-9	9	144.42	2	-9	9	-9	9	7.5470	2	-9	9	0.30	-9	-9	-9	-9
107	2	1999.7	34.631	2	34.631	2	2.220	2.081	27.670	-9	0.0	2	34.8	2	2.45	2	97.8	2	-9	9	-9	9	157.36	2	-9	9	-9	9	7.5702	2	-9	9	0.30	-9	-9	-9	-9
106	2	2295.0	34.668	2	34.669	2	1.942	1.781	27.723	-9	0.0	2	34.3	2	2.39	2	109.2	2	-9	9	-9	9	162.59	2	-9	9	-9	9	7.5809	2	-9	9	0.30	-9	-9	-9	-9
105	2	2599.1	34.679	2	34.679	2	1.805	1.619	27.744	-9	0.0	2	34.2	2	2.38	2	114.9	2	-9	9	-9	9	164.27	2	-9	9	-9	9	7.5875	2	-9	9	0.30	-9	-9	-9	-9
104	2	2896.6	34.685	2	34.685	2	1.744	1.532	27.755	-9	0.0	2	34.1	2	2.43	2	115.3	2	-9	9	-9	9	167.79	2	-9	9	-9	9	7.5909	2	-9	9	0.30	-9	-9	-9	-9
103	2	3197.7	34.688	2	34.688	2	1.701	1.460	27.763	-9	0.0	2	33.9	2	2.42	2	114.9	2	-9	9	-9	9	171.08	2	-9	9	-9	9	7.5947	2	-9	9	-9	-9	-9	-9	-9
102	2	3396.1	34.693	2	34.694	2	1.629	1.370	27.773	-9	0.0	2	33.9	2	2.40	2	115.4	2	-9	9	-9	9	174.69	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
101	2	3648.3	34.698	2	34.698	2	1.541	1.258	27.785	-9	0.0	2	33.8	2	2.33	2	118.2	2	-9	9	-9	9	177.83	2	-9	9	-9	9	7.6015	2	-9	9	0.30	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 68 DATE 3/18/94 LATITUDE 35°30.0'S Btm Depth: 3137
CAST 1 LONGITUDE 102°59.9'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	34.051	2	34.052	2	19.801	19.799	24.091	0.097	0.0	2	1.9	2	0.32	2	0.8	2	2.463	2	1.279	2	231.96	2	376	2	1999.1	2	7.9866	2	2254	2	-9	-9	-9	-9	-9
135	2	25.8	34.051	2	34.053	2	19.776	19.771	24.098	0.098	0.0	2	1.9	2	0.31	2	0.8	2	2.496	2	1.267	2	232.38	2	377	2	1997.6	2	7.9852	2	2255	2	-9	-9	-9	-9	-9
134	2	52.2	34.128	2	34.143	2	15.831	15.823	25.117	0.133	0.0	2	1.0	2	0.27	2	0.8	2	3.177	2	1.557	2	275.13	2	385	2	2005.6	2	7.9801	2	2255	2	-9	-9	-9	-9	-9
133	2	75.7	34.057	2	34.059	2	14.125	14.114	25.434	0.100	0.0	2	2.7	2	0.40	2	0.9	2	3.324	2	1.648	2	272.10	2	411	2	2014.4	2	7.9561	2	2251	2	-9	-9	-9	-9	-9
132	3	100.5	34.011	2	34.022	2	12.655	12.642	25.697	0.053	0.2	2	4.7	2	0.53	2	1.1	2	3.595	6	1.720	6	262.14	2	450	2	2029.5	2	7.9250	2	-9	5	-9	-9	-9	-9	-9
131	2	119.9	34.095	2	34.120	2	12.081	12.066	25.874	0.043	0.3	2	6.4	2	0.67	2	1.2	2	3.432	2	1.685	2	252.79	2	489	2	2048.5	2	7.8946	2	2261	2	-9	-9	-9	-9	-9
130	2	151.8	34.323	2	34.323	2	11.736	11.717	26.117	0.036	0.3	2	9.2	2	0.84	2	1.6	2	3.216	2	1.532	2	232.79	2	535	2	2072.8	2	7.8621	2	2271	2	-9	-9	-9	-9	-9
129	4	198.9	34.310	2	-9	9	10.052	10.029	26.408	0.026	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	248.9	34.344	2	34.345	2	8.734	8.708	26.651	0.022	0.0	2	17.9	2	1.36	2	3.9	2	2.584	2	1.207	2	226.35	2	681	2	2115.0	2	7.7697	2	2267	2	-9	-9	-9	-9	-9
127	2	297.6	34.299	2	34.300	2	7.565	7.535	26.791	0.020	0.0	2	20.2	2	1.49	2	4.9	2	2.729	2	1.243	2	237.35	2	718	3	2124.6	2	7.7516	2	-9	5	-9	-9	-9	-9	-9
126	2	350.9	34.318	2	34.318	2	6.947	6.914	26.893	0.021	0.0	2	21.8	2	1.54	2	6.4	2	2.617	2	1.132	2	240.28	2	737	2	2131.4	2	7.7383	2	2277	2	-9	-9	-9	-9	-9
125	2	399.8	34.334	2	34.335	2	6.635	6.599	26.949	0.017	0.0	2	22.0	2	1.55	2	7.3	2	2.310	2	1.073	2	246.77	2	735	2	2132.8	2	7.7428	2	2275	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	496.0	34.318	2	34.319	2	6.228	6.184	26.991	0.019	0.0	2	23.0	2	1.65	2	8.5	2	1.952	2	0.910	2	250.77	2	-9	9	2133.7	2	7.7411	2	2282	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	601.6	34.294	2	34.295	2	5.826	5.774	27.023	0.016	0.0	2	23.7	2	1.72	2	9.9	2	1.536	2	0.729	2	250.94	6	749	2	2137.6	2	7.7335	2	2280	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	698.6	34.274	2	34.276	2	5.441	5.383	27.055	0.014	0.0	2	25.2	2	1.79	2	12.1	2	1.159	2	0.549	2	245.90	2	780	3	2146.2	2	7.7181	2	2277	2	-9	-9	-9	-9	-9
118	2	798.3	34.265	2	34.266	2	4.986	4.921	27.102	0.013	0.0	2	27.5	2	1.93	2	17.1	2	0.657	6	0.331	6	231.23	2	847	2	2157.7	2	7.6891	2	2284	2	-9	-9	-9	-9	-9
117	2	900.4	34.279	2	34.279	2	4.580	4.509	27.158	0.015	0.0	2	29.7	2	2.08	2	24.0	2	0.320	2	0.163	2	213.52	2	929	2	2176.6	2	7.6522	2	2292	2	-9	-9	-9	-9	-9
116	2	999.6	34.308	2	34.308	2	4.120	4.044	27.231	0.012	0.0	2	31.7	2	2.22	2	32.1	2	0.127	6	0.073	6	195.73	2	1017	2	2194.2	2	7.6190	2	2292	2	-9	-9	-9	-9	-9
115	2	1098.9	34.363	2	34.362	2	3.751	3.670	27.313	0.012	0.0	2	34.3	2	2.40	2	44.3	2	0.023	2	0.013	2	169.60	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1195.8	34.434	2	34.432	2	3.436	3.349	27.401	0.011	0.0	2	36.1	2	2.55	2	60.1	2	0.001	2	0.001	2	146.11	2	-9	9	-9	9	7.5380	2	-9	9	-9	-9	-9	-9	-9
113	2	1301.0	34.482	2	34.480	2	3.254	3.160	27.457	0.011	0.0	2	37.7	2	2.60	2	71.9	2	0.018	2	0.001	2	134.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1396.3	34.514	2	34.513	2	3.098	2.998	27.497	0.011	0.0	2	37.2	2	2.62	2	79.6	2	-0.004	2	0.001	2	128.93	2	-9	9	-9	9	7.5182	2	-9	9	-9	-9	-9	-9	-9
111	2	1502.7	34.542	2	34.542	2	2.913	2.806	27.537	0.010	0.0	2	37.3	2	2.64	2	85.2	2	-0.001	2	-0.002	2	132.29	2	-9	9	-9	9	7.5250	2	-9	9	-9	-9	-9	-9	-9
110	2	1596.1	34.561	2	34.561	2	2.764	2.651	27.566	0.010	0.0	2	36.9	2	2.63	2	89.1	2	-9	9	-9	9	134.88	6	-9	9	-9	9	7.5325	2	-9	9	-9	-9	-9	-9	-9
109	2	1799.4	34.597	2	34.596	2	2.444	2.318	27.623	0.008	0.0	2	35.9	2	2.52	2	95.8	2	-0.003	2	-0.004	2	147.03	2	-9	9	-9	9	7.5521	2	-9	9	-9	-9	-9	-9	-9
108	2	1997.8	34.627	2	34.627	2	2.224	2.084	27.666	0.008	0.0	2	34.8	2	2.43	2	101.4	2	-9	9	-9	9	155.20	2	-9	9	-9	9	7.5681	2	-9	9	-9	-9	-9	-9	-9
107	2	2200.2	34.657	2	34.657	2	2.014	1.860	27.708	0.007	0.0	2	34.5	2	2.40	2	107.4	2	-0.002	2	-0.002	2	160.04	2	-9	9	-9	9	7.5777	2	-9	9	-9	-9	-9	-9	-9
106	2	2396.9	34.672	2	34.672	2	1.864	1.695	27.732	0.007	0.0	2	33.8	2	2.38	2	112.0	2	-9	9	-9	9	162.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2599.2	34.678	2	34.678	2	1.788	1.603	27.744	0.006	0.0	2	34.1	2	2.38	2	113.8	2	-0.003	2	0.002	2	164.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2800.2	34.682	2	34.682	2	1.758	1.555	27.751	0.006	0.0	2	33.9	2	2.42	2	114.1	2	-9	9	-9	9	165.75	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	2997.9	34.684	2	34.684	2	1.755	1.532	27.755	0.007	0.0	2	33.9	2	2.40	2	114.4	2	-0.003	2	0.001	2	165.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2997.2	34.685	2	34.685	2	1.754	1.532	27.755	0.007	0.0	2	34.4	2	2.37	2	116.2	2	-9	9	-9	9	166.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3156.0	34.684	2	34.684	2	1.769	1.530	27.755	0.006	0.0	2	33.6	2	2.41	2	117.0	2	0.000	2	0.010	2	166.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 69 DATE 3/18/94 LATITUDE 35°0.0'S Btm Depth: 3600
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.2	34.077	2	34.078	2	20.336	20.334	23.970	0.089	0.0	2	1.8	2	0.23	2	0.4	2	2.395	2	1.228	2	229.46	2	371	2	1996.7	2	7.9920	2	2252	6	1.90	48.0	4.9	-9	-9
135	2	24.3	34.075	2	34.078	2	20.341	20.337	23.968	0.090	0.0	2	1.6	2	0.26	2	0.7	2	-9	9	-9	9	229.57	2	371	2	1994.9	2	7.9914	2	2252	2	-9	48.6	4.9	-9	-9
134	2	49.6	34.149	2	34.149	2	16.303	16.296	25.025	0.092	0.0	2	0.3	2	0.19	2	0.2	2	3.080	2	1.562	2	273.96	2	370	2	1997.7	2	7.9910	2	2255	2	-9	51.1	5.2	-9	-9
133	2	77.7	34.139	2	34.138	2	14.462	14.451	25.427	0.068	0.0	2	1.4	2	0.23	2	0.3	2	-9	9	-9	9	263.27	2	-9	9	2011.0	2	7.9650	2	-9	5	-9	48.6	4.5	-9	-9
132	2	102.3	34.110	2	34.113	2	13.389	13.374	25.628	0.054	0.1	2	3.2	2	0.39	2	0.9	2	3.194	2	1.604	2	253.85	2	434	2	2025.4	2	7.9358	2	2254	2	-9	49.0	4.9	-9	-9
131	2	120.6	34.166	2	34.170	2	12.970	12.954	25.756	0.044	0.3	2	4.6	2	0.50	2	0.7	2	-9	9	-9	9	247.87	2	452	2	2039.3	2	7.9164	2	2259	2	-9	-9	-9	-9	-9
130	2	149.7	34.359	2	34.357	2	12.317	12.298	26.034	0.031	0.3	2	7.8	2	0.75	2	1.1	2	3.159	2	1.533	2	231.59	2	511	2	2067.3	2	7.8732	2	2257	3	-9	46.5	4.2	-9	-9
129	2	198.1	34.402	2	34.405	2	11.025	11.001	26.310	0.025	0.0	2	11.9	2	0.94	2	1.7	2	-9	9	-9	9	223.40	2	580	2	2089.4	2	7.8285	2	2275	2	-9	-9	-9	-9	-9
128	2	249.4	34.377	2	34.376	2	9.328	9.300	26.582	0.022	0.0	2	16.4	2	1.26	2	3.5	2	2.406	2	1.120	2	219.47	2	661	2	2112.1	3	7.7770	2	2268	2	-9	-9	-9	-9	-9
127	2	298.6	34.326	2	34.327	2	7.995	7.965	26.750	0.021	0.0	2	19.3	2	1.43	2	4.6	2	-9	9	-9	9	229.18	2	704	2	2125.9	3	7.7529	2	2271	2	-9	-9	-9	-9	-9
126	2	348.9	34.329	2	34.329	2	7.118	7.085	26.879	0.017	0.0	2	20.9	2	1.52	2	6.2	2	2.330	6	1.077	6	237.39	2	730	3	2131.0	3	7.7391	2	2277	2	-9	-9	-9	-9	-9
125	3	396.6	34.336	2	34.336	2	6.765	6.729	26.933	0.015	0.0	2	21.5	2	1.55	2	7.0	2	2.220	2	1.024	2	243.16	2	732	2	2132.5	3	7.7401	2	2279	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	496.9	34.323	2	34.323	2	6.281	6.237	26.987	0.017	0.0	2	22.6	2	1.58	2	8.2	2	1.853	2	0.871	2	249.39	2	741	3	2133.8	3	7.7382	2	2277	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	596.5	34.298	2	34.298	2	5.879	5.827	27.020	0.015	0.0	2	23.8	2	1.69	2	9.6	2	1.415	2	0.680	2	249.20	2	753	3	2141.0	3	7.7325	2	2285	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.4	34.278	2	34.278	2	5.491	5.432	27.053	0.012	0.0	2	25.0	2	1.80	2	11.7	2	0.937	2	0.466	2	244.23	2	774	2	2144.9	3	7.7180	2	2284	2	-9	-9	-9	-9	-9
118	2	798.1	34.267	2	34.267	2	5.068	5.003	27.094	0.014	0.0	2	26.9	2	1.90	2	15.8	2	0.576	2	0.295	2	232.45	2	831	2	2156.5	3	7.6920	2	2273	2	-9	-9	-9	-9	-9
117	2	899.0	34.277	2	34.278	2	4.600	4.529	27.155	0.014	0.0	2	29.5	2	2.01	2	23.3	2	0.261	6	0.142	6	212.59	2	930	2	2177.1	3	7.6528	2	2284	2	-9	-9	-9	-9	-9
116	2	995.5	34.309	2	34.309	2	4.153	4.077	27.229	0.013	0.0	2	32.0	2	2.30	2	32.9	2	0.104	2	0.059	2	192.92	2	1020	2	2198.3	2	7.6124	2	2298	6	-9	-9	-9	-9	-9
115	2	1098.8	34.363	2	34.362	2	3.741	3.659	27.314	0.012	0.0	2	34.1	2	2.48	2	45.9	2	-9	9	-9	9	169.23	2	1150	2	2225.5	2	7.5736	2	2304	2	-9	-9	-9	-9	-9
114	2	1204.0	34.423	2	34.421	2	3.495	3.406	27.387	0.011	0.0	2	35.9	2	2.58	2	59.6	2	0.001	2	0.003	2	147.64	2	1246	2	2248.7	2	7.5394	2	2321	2	-9	-9	-9	-9	-9
113	2	1298.5	34.478	2	34.502	4	3.322	3.228	27.447	0.011	0.0	2	37.0	2	2.66	2	73.2	2	-9	9	-9	9	131.80	2	1333	2	2270.7	2	7.5196	2	2339	2	-9	-9	-9	-9	-9
112	2	1396.9	34.511	2	34.511	2	3.162	3.061	27.489	0.010	0.0	2	37.1	2	2.71	2	81.1	2	-9	9	-9	9	127.49	2	1341	2	2280.6	2	7.5162	2	2344	2	-9	-9	-9	-9	-9
111	2	1599.5	34.559	2	34.558	2	2.788	2.674	27.562	0.010	0.0	2	36.9	2	2.65	2	91.2	2	0.000	2	0.000	2	134.20	2	1310	2	2286.5	2	7.5316	2	2353	2	-9	-9	-9	-9	-9
110	2	1800.9	34.596	2	34.600	3	2.465	2.339	27.620	0.008	0.0	2	35.7	2	2.60	2	98.1	2	0.009	2	0.002	2	144.05	6	1255	2	2287.5	2	7.5480	2	2369	2	-9	-9	-9	-9	-9
109	2	1996.9	34.630	2	34.630	2	2.213	2.074	27.669	0.007	0.0	2	35.2	2	2.48	2	103.4	2	-9	9	-9	9	154.43	2	1198	2	2285.2	2	7.5672	2	2367	2	-9	-9	-9	-9	-9
108	2	2252.4	34.662	2	34.661	2	1.981	1.823	27.715	0.007	0.0	2	33.9	2	2.43	2	110.6	2	-9	9	-9	9	160.88	2	1162	2	2287.6	2	7.5792	2	2380	2	-9	-9	-9	-9	-9
107	2	2413.7	34.673	2	34.672	2	1.872	1.701	27.733	0.006	0.0	2	33.8	2	2.41	2	114.3	2	-9	9	-9	9	163.13	2	1150	2	2289.3	2	7.5824	2	2385	2	-9	-9	-9	-9	-9
106	2	2502.1	34.677	2	34.676	2	1.825	1.648	27.740	0.006	0.0	2	33.4	2	2.40	2	115.3	2	0.006	2	0.000	2	163.89	2	1142	2	2291.3	2	7.5860	2	2382	2	-9	-9	-9	-9	-9
105	2	2749.6	34.684	2	34.682	2	1.755	1.556	27.752	0.005	0.0	2	33.3	2	2.38	2	116.8	2	-9	9	-9	9	166.16	2	1134	2	2292.5	2	7.5907	2	2387	2	-9	-9	-9	-9	-9
104	2	2998.8	34.686	2	34.685	2	1.745	1.522	27.757	0.005	0.0	2	33.8	2	2.42	2	116.7	2	-9	9	-9	9	167.12	2	1124	2	2293.0	2	7.5910	2	2386	2	-9	-9	-9	-9	-9
103	2	3250.1	34.688	2	34.687	2	1.757	1.510	27.759	0.006	0.0	2	33.5	2	2.42	2	116.5	2	-0.003	2	0.001	2	167.34	2	-9	9	2299.0	3	7.5959	2	2388	2	-9	-9	-9	-9	-9
102	2	3249.1	34.688	2	34.687	2	1.757	1.510	27.759	0.006	0.0	2	33.6	2	2.37	2	117.4	2	-9	9	-9	9	168.27	2	1129	2	2294.2	2	7.5936	2	2386	2	-9	-9	-9	-9	-9
101	2	3574.2	34.690	2	34.688	2	1.777	1.496	27.761	0.008	0.0	2	33.5	2	2.37	2	118.2	2	-9	9	-9	9	171.58	2	1123	2	2291.9	2	7.5931	2	2392	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 70 DATE 3/18/94 LATITUDE 34°31.0'S Btm Depth: 3434
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.1	34.188	2	34.187	2	20.620	20.619	23.979	0.075	0.0	2	0.4	2	0.18	2	0.7	2	-9	9	-9	9	227.67	2	361	2	1996.6	2	8.0007	2	2262	6	-9	51.4	4.6	0.052	0.024
135	2	25.8	34.188	2	34.188	2	20.613	20.608	23.981	0.076	0.0	2	0.4	2	0.19	2	0.5	2	-9	9	-9	9	225.55	2	361	2	1996.2	2	8.0002	2	2257	2	-9	53.5	5.0	0.054	0.026
134	2	52.3	34.131	2	34.148	2	16.611	16.603	24.940	0.108	0.0	2	0.4	2	0.18	2	0.6	2	-9	9	-9	9	271.45	2	373	2	2001.5	2	7.9886	2	2257	2	-9	55.0	4.7	0.095	0.049
133	2	74.7	34.213	2	34.213	2	15.359	15.348	25.289	0.095	0.0	2	0.4	2	0.20	2	0.6	2	-9	9	-9	9	268.96	2	381	2	2007.0	2	-9	9	2256	2	-9	51.5	4.7	0.117	0.080
132	2	99.6	34.327	2	34.327	2	14.653	14.638	25.532	0.061	0.1	2	1.4	2	0.27	2	0.7	2	-9	9	-9	9	245.26	2	414	2	2024.5	2	7.9568	2	2267	2	-9	47.3	4.6	0.160	0.152
131	2	122.7	34.227	2	34.225	2	13.861	13.843	25.623	0.039	0.2	2	2.8	2	0.41	2	0.4	2	-9	9	-9	9	247.40	6	435	2	2032.4	2	-9	9	2253	2	-9	45.0	-9	0.135	0.129
130	2	149.2	34.510	2	34.512	2	13.571	13.550	25.902	0.039	0.2	2	5.8	2	0.60	2	1.3	2	-9	9	-9	9	221.91	2	493	2	2064.1	2	7.8959	2	2268	3	-9	-9	-9	0.120	0.120
129	2	200.0	34.509	2	34.509	2	11.843	11.817	26.242	0.027	0.0	2	10.7	2	0.85	2	1.9	2	-9	9	-9	9	213.81	2	560	2	2088.4	2	-9	9	2279	2	-9	35.3	-9	0.018	0.018
128	2	254.1	34.404	2	34.407	2	9.864	9.835	26.514	0.024	0.0	2	15.0	2	1.11	2	2.9	2	-9	9	-9	9	219.68	6	637	2	2106.7	2	7.7969	2	2277	2	-9	-9	-9	0.003	0.006
127	2	305.8	34.338	2	34.340	2	8.280	8.248	26.717	0.019	0.0	2	18.9	2	1.33	2	4.3	2	-9	9	-9	9	227.35	2	701	2	2120.9	2	7.7602	2	2282	2	-9	36.3	2.9	0.002	0.006
126	2	355.3	34.314	2	34.314	2	7.412	7.377	26.825	0.021	0.0	2	20.5	2	1.40	2	5.2	2	-9	9	-9	9	237.10	2	722	2	2125.6	2	-9	9	2269	2	-9	-9	-9	-9	-9
125	2	400.4	34.319	2	34.319	2	6.877	6.839	26.905	0.017	0.0	2	21.4	2	1.49	2	6.3	2	-9	9	-9	9	243.94	6	730	2	2129.8	2	7.7432	2	2267	2	-9	30.7	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	497.2	34.331	2	34.330	2	6.396	6.351	26.979	0.016	0.0	2	22.8	2	1.54	2	8.1	2	-9	9	-9	9	243.30	2	740	2	2130.7	2	7.7365	2	2278	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	592.1	34.302	2	34.301	2	5.955	5.903	27.013	0.016	0.0	2	23.5	2	1.59	2	9.2	2	-9	9	-9	9	249.39	2	749	2	2136.7	2	-9	9	2281	2	-9	35.1	2.7	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	695.1	34.280	2	34.280	2	5.542	5.483	27.048	0.017	0.0	2	25.0	2	1.70	2	11.3	2	-9	9	-9	9	244.96	2	778	2	2143.3	2	7.7214	2	2274	2	-9	-9	-9	-9	-9
118	2	796.3	34.267	2	34.267	2	5.114	5.048	27.089	0.016	0.0	2	27.0	2	1.84	2	15.0	2	-9	9	-9	9	234.92	2	826	2	2154.7	2	7.6976	2	2280	2	-9	41.6	-9	-9	-9
117	2	900.0	34.274	2	34.274	2	4.669	4.597	27.145	0.015	0.0	2	29.5	2	2.01	2	21.8	2	-9	9	-9	9	216.19	2	921	2	2172.7	2	-9	9	2291	6	-9	-9	-9	-9	-9
116	2	994.1	34.306	2	34.306	2	4.222	4.146	27.219	0.014	0.0	2	31.6	2	2.18	2	32.5	2	-9	9	-9	9	194.04	2	1019	2	2194.5	2	7.6181	2	2297	2	-9	45.7	2.6	-9	-9
115	2	1095.8	34.355	2	34.352	2	3.812	3.730	27.300	0.012	0.0	2	33.9	2	2.37	2	44.4	2	-9	9	-9	9	172.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1198.3	34.411	2	34.409	2	3.546	3.458	27.372	0.012	0.0	2	35.9	2	2.52	2	57.0	2	-9	9	-9	9	151.57	2	-9	9	-9	9	7.5477	2	-9	9	-9	-9	-9	-9	-9
113	2	1299.1	34.466	2	34.464	2	3.313	3.219	27.438	0.011	0.0	2	37.2	2	2.59	2	70.5	2	-9	9	-9	9	137.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1395.0	34.506	2	34.507	2	3.143	3.043	27.487	0.011	0.0	2	37.2	2	2.62	2	81.3	2	-9	9	-9	9	130.00	2	-9	9	-9	9	-9	9	-9	9	-9	44.2	-9	-9	-9
111	2	1500.3	34.537	2	34.537	2	2.953	2.846	27.530	0.010	0.0	2	37.3	2	2.60	2	88.5	2	-9	9	-9	9	130.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1599.5	34.559	2	34.559	2	2.782	2.668	27.563	0.008	0.0	2	36.5	2	2.57	2	93.0	2	-9	9	-9	9	133.66	2	-9	9	-9	9	7.5309	2	-9	9	-9	-9	-9	-9	-9
109	2	1799.8	34.599	2	34.597	2	2.435	2.309	27.625	0.008	0.0	2	35.6	2	2.47	2	98.9	2	-9	9	-9	9	146.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1999.6	34.634	2	34.633	2	2.183	2.044	27.675	0.007	0.0	2	34.7	2	2.41	2	103.3	2	-9	9	-9	9	156.35	2	-9	9	-9	9	-9	9	-9	9	-9	38.8	-9	-9	-9
107	2	2248.1	34.665	2	34.664	2	1.952	1.795	27.719	0.006	0.0	2	34.6	2	2.40	2	110.4	2	-9	9	-9	9	161.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2500.4	34.679	2	34.679	2	1.814	1.637	27.742	0.005	0.0	2	34.2	2	2.37	2	116.1	2	-9	9	-9	9	164.52	2	-9	9	-9	9	7.5874	2	-9	9	-9	-9	-9	-9	-9
105	2	2750.7	34.683	2	34.682	2	1.754	1.555	27.752	0.004	0.0	2	34.1	2	2.35	2	120.5	2	-9	9	-9	9	165.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2999.4	34.687	2	34.686	2	1.745	1.522	27.757	0.004	0.0	2	34.3	2	2.34	2	120.9	2	-9	9	-9	9	166.98	2	-9	9	-9	9	-9	9	-9	9	-9	35.7	2.9	-9	-9
103	2	3253.8	34.688	2	34.688	2	1.754	1.506	27.760	0.006	0.0	2	34.2	2	2.35	2	120.0	2	-9	9	-9	9	167.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3249.0	34.689	2	34.688	2	1.753	1.506	27.760	0.006	0.0	2	33.9	2	2.35	2	119.0	2	-9	9	-9	9	168.30	2	-9	9	-9	9	7.5941	2	-9	9	-9	-9	-9	-9	-9
101	2	3455.4	34.690	2	34.688	2	1.767	1.499	27.761	0.007	0.0	2	33.8	2	2.33	2	118.4	2	-9	9	-9	9	167.69	2	-9	9	-9	9	-9	9	-9	9	-9	38.2	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 71 DATE 3/18/94 LATITUDE 34°0.4'S Btm Depth: 3667
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.0	34.303	2	34.303	2	20.943	20.941	23.979	0.074	0.0	2	0.5	2	0.23	2	3.3	2	2.323	2	1.202	2	226.37	2	358	2	1999.5	2	8.0039	2	2266	6	1.80	-9	-9	-9	-9
135	2	23.0	34.288	2	34.283	2	20.880	20.876	23.986	0.083	0.0	2	0.4	2	0.24	2	3.1	2	2.313	2	1.202	2	226.56	2	-9	9	-9	9	8.0025	2	-9	9	1.90	-9	-9	-9	-9
134	2	48.5	34.250	2	34.270	2	18.438	18.430	24.592	0.103	0.0	2	0.4	2	0.19	2	3.0	2	2.799	2	1.421	2	256.37	2	366	2	-9	9	7.9935	2	-9	9	1.90	-9	-9	-9	-9
133	2	73.0	34.172	2	34.178	2	15.149	15.138	25.304	0.091	0.0	2	0.7	2	0.24	2	2.6	2	3.181	2	1.571	2	266.85	2	-9	9	-9	9	7.9766	2	-9	9	1.90	-9	-9	-9	-9
132	2	102.5	34.220	2	34.227	2	14.297	14.282	25.525	0.054	0.0	2	1.5	2	0.28	2	2.5	2	3.140	2	1.587	2	253.96	2	410	2	-9	9	7.9556	2	-9	9	1.80	-9	-9	-9	-9
131	2	125.2	34.175	2	34.182	2	13.687	13.669	25.618	0.043	0.1	2	2.4	2	0.38	2	2.4	2	-9	1	-9	1	251.62	2	-9	9	-9	9	7.9401	2	-9	9	-9	-9	-9	-9	-9
130	2	147.4	34.177	2	34.162	2	12.910	12.890	25.777	0.034	0.3	2	4.6	2	0.54	2	2.5	2	3.303	2	1.576	2	247.32	2	-9	9	-9	9	7.9121	2	-9	9	1.70	-9	-9	-9	-9
129	2	198.1	34.514	2	34.511	2	12.379	12.353	26.144	0.024	0.0	2	9.0	2	0.80	2	3.1	2	2.802	2	1.346	2	216.65	2	-9	9	-9	9	7.8574	2	-9	9	1.40	-9	-9	-9	-9
128	2	248.3	34.446	2	34.446	2	10.786	10.756	26.388	0.023	0.0	2	12.9	2	1.04	2	3.6	2	2.582	2	1.211	2	216.66	2	579	2	-9	9	7.8171	2	-9	9	-9	-9	-9	-9	-9
127	2	298.2	34.363	2	34.364	2	9.059	9.027	26.615	0.021	0.0	2	17.0	2	1.28	2	4.9	2	2.405	2	1.099	2	220.96	2	-9	9	-9	9	7.7734	2	-9	9	1.40	-9	-9	-9	-9
126	2	349.4	34.325	2	34.325	2	7.586	7.552	26.809	0.020	0.0	2	20.3	2	1.44	2	6.3	2	2.409	2	1.120	2	233.37	2	-9	9	-9	9	7.7454	2	-9	9	-9	-9	-9	-9	-9
125	2	401.8	34.336	2	34.335	2	6.957	6.919	26.907	0.020	0.0	2	21.6	2	1.49	2	7.5	2	2.182	2	1.006	2	237.38	2	-9	9	-9	9	7.7365	2	-9	9	1.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	502.2	34.326	2	34.326	2	6.318	6.273	26.985	0.014	0.0	2	22.4	2	1.55	2	9.2	2	1.814	6	0.829	6	248.49	2	735	2	-9	9	7.7379	2	-9	9	1.40	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	599.0	34.298	2	34.297	2	5.889	5.837	27.018	0.014	0.0	2	23.3	2	1.62	2	10.5	2	1.512	2	0.703	2	249.85	2	-9	9	-9	9	7.7336	2	-9	9	1.40	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.4	34.278	2	34.277	2	5.522	5.463	27.048	0.013	0.0	2	24.7	2	1.74	2	12.2	2	1.193	2	0.568	2	247.06	2	-9	9	-9	9	7.7216	2	-9	9	1.50	-9	-9	-9	-9
118	2	799.9	34.265	2	34.265	2	5.040	4.974	27.096	0.013	0.0	2	26.9	2	1.90	2	16.7	2	0.698	2	0.352	2	233.00	2	-9	9	-9	9	7.6926	2	-9	9	1.30	-9	-9	-9	-9
117	2	897.3	34.272	2	34.272	2	4.584	4.513	27.153	0.011	0.0	2	29.5	2	2.04	2	23.8	2	0.358	2	0.200	2	212.75	2	922	2	-9	9	7.6547	2	-9	9	1.10	-9	-9	-9	-9
116	2	994.7	34.307	2	34.306	2	4.115	4.039	27.231	0.011	0.0	2	31.9	2	2.22	2	34.2	2	0.121	2	0.071	2	192.96	2	1018	2	-9	9	7.6118	2	-9	9	0.90	-9	-9	-9	-9
115	2	1099.5	34.358	2	34.357	2	3.727	3.645	27.311	0.011	0.0	2	34.2	2	2.36	2	47.5	2	0.106	2	0.124	4	172.30	2	-9	9	-9	9	-9	9	-9	9	0.80	-9	-9	-9	-9
114	2	1197.3	34.420	2	34.419	2	3.486	3.398	27.385	0.010	0.0	2	35.8	2	2.54	2	60.9	2	0.003	2	0.001	2	147.32	2	-9	9	-9	9	-9	9	-9	9	0.70	-9	-9	-9	-9
113	2	1400.8	34.513	2	34.511	2	3.124	3.023	27.495	0.009	0.0	2	37.5	2	2.66	2	82.3	2	-0.002	2	0.000	2	128.59	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.0	34.564	2	34.564	2	2.743	2.630	27.570	0.008	0.0	2	37.1	2	2.58	2	95.0	2	0.003	2	-0.003	2	136.37	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
111	2	1805.8	34.603	2	34.602	2	2.404	2.278	27.631	0.006	0.0	2	36.2	2	2.50	2	102.6	2	0.001	2	-0.001	2	146.48	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1997.9	34.635	2	34.634	2	2.172	2.033	27.677	0.005	0.0	2	34.5	2	2.41	2	106.7	2	-0.001	2	0.002	2	155.86	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
109	2	2253.4	34.665	2	34.664	2	1.951	1.794	27.720	0.004	0.0	2	34.4	2	2.40	2	112.5	2	-0.002	2	-0.002	2	160.54	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2498.1	34.680	2	34.679	2	1.814	1.637	27.743	0.004	0.0	2	33.9	2	2.39	2	117.0	2	-9	9	-9	9	164.42	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
107	2	2739.4	34.684	2	34.682	2	1.756	1.559	27.752	0.003	0.0	2	33.9	2	2.37	2	120.3	2	-9	9	-9	9	166.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2994.7	34.687	2	34.686	2	1.743	1.521	27.757	0.003	0.0	2	33.8	2	2.37	2	121.9	2	-0.002	2	-0.003	2	167.42	2	-9	9	-9	9	-9	9	-9	9	0.70	-9	-9	-9	-9
105	2	3246.2	34.689	2	34.687	2	1.754	1.507	27.760	0.003	0.0	2	33.7	2	2.35	2	121.2	2	-9	9	-9	9	168.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3246.8	34.688	2	34.687	2	1.754	1.507	27.759	0.003	0.0	2	33.7	2	2.34	2	120.5	2	-9	9	-9	9	166.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3247.9	34.689	2	34.688	2	1.754	1.507	27.760	0.003	0.0	2	33.5	2	2.33	2	119.2	2	0.313	4	0.004	2	167.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3494.8	34.690	2	34.688	2	1.774	1.501	27.761	0.004	0.0	2	33.6	2	2.34	2	118.4	2	-9	9	-9	9	168.48	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
101	2	3687.9	34.690	2	34.688	2	1.791	1.498	27.761	0.005	0.0	2	33.9	2	2.37	2	117.4	2	-9	9	-9	9	168.86	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 72 DATE 3/19/94 LATITUDE 33°29.7'S Btm Depth: 3594
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	34.848	2	34.848	2	21.655	21.653	24.199	0.046	0.0	2	0.2	2	0.10	2	1.6	2	-9	9	-9	9	221.71	2	353	2	2008.3	2	8.0194	2	2289	2	-9	-9	-9	-9	-9
135	2	24.6	34.849	2	34.849	2	21.658	21.653	24.200	0.046	0.0	2	0.1	2	0.11	2	1.6	2	-9	9	-9	9	221.52	2	347	2	2009.6	2	8.0218	2	2296	2	-9	-9	-9	-9	-9
134	2	49.3	34.837	2	34.837	2	21.404	21.394	24.262	0.053	0.0	2	0.1	2	0.12	2	1.4	2	-9	9	-9	9	224.04	2	356	2	2009.5	2	8.0197	2	2294	2	-9	-9	-9	-9	-9
133	2	73.4	34.606	2	34.602	2	17.583	17.570	25.075	0.071	0.0	2	0.1	2	0.12	2	1.4	2	-9	9	-9	9	256.19	2	358	2	2006.9	2	8.0065	2	2278	2	-9	-9	-9	-9	-9
132	2	99.7	34.585	2	34.619	3	16.403	16.387	25.339	0.069	0.0	2	0.1	2	0.12	2	1.4	2	-9	9	-9	9	254.37	2	368	2	2010.6	2	7.9990	2	2270	2	-9	-9	-9	-9	-9
131	2	124.4	34.681	2	34.676	2	16.202	16.182	25.461	0.067	0.0	2	0.1	2	0.11	2	1.3	2	-9	9	-9	9	246.86	2	375	2	2016.6	2	7.9938	2	2283	2	-9	-9	-9	-9	-9
130	2	147.9	34.680	2	34.675	2	15.662	15.639	25.583	0.048	0.0	2	0.6	2	0.12	2	1.9	2	-9	9	-9	9	239.08	2	401	2	2027.7	2	7.9745	2	2284	2	-9	-9	-9	-9	-9
129	2	198.2	34.692	2	34.687	2	13.940	13.911	25.968	0.031	0.0	2	5.8	2	0.55	2	2.7	2	-9	9	-9	9	214.06	2	492	2	2069.3	2	7.8951	2	2284	2	-9	-9	-9	-9	-9
128	2	249.8	34.597	2	34.577	2	12.065	12.032	26.270	0.025	0.0	2	10.3	2	0.81	2	2.8	2	-9	9	-9	9	211.71	2	567	2	2090.1	2	7.8423	2	2284	2	-9	-9	-9	-9	-9
127	2	301.0	34.406	2	34.405	2	9.897	9.862	26.511	0.020	0.0	2	15.1	2	1.08	2	3.5	2	-9	9	-9	9	217.95	2	633	2	2105.8	2	7.7957	2	2274	2	-9	-9	-9	-9	-9
126	2	351.3	34.335	2	34.336	2	8.360	8.323	26.703	0.021	0.0	2	18.9	2	1.30	2	5.1	2	-9	9	-9	9	221.86	2	-9	9	2122.3	2	7.7538	2	2272	2	-9	-9	-9	-9	-9
125	2	398.6	34.323	2	34.323	2	7.390	7.351	26.836	0.019	0.0	2	21.7	2	1.49	2	6.7	2	-9	9	-9	9	225.62	2	-9	9	2133.6	2	7.7294	2	2275	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	497.3	34.325	2	34.325	2	6.447	6.402	26.967	0.017	0.0	2	23.0	2	1.56	2	8.7	2	-9	9	-9	9	240.45	2	757	2	2136.5	2	7.7287	2	2279	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.6	34.302	2	34.302	2	5.953	5.901	27.013	0.017	0.0	2	23.6	2	1.58	2	10.0	2	-9	9	-9	9	247.93	2	755	2	2136.1	2	7.7302	2	2277	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.2	34.276	2	34.277	2	5.508	5.449	27.048	0.016	0.0	2	24.7	2	1.66	2	12.1	2	-9	9	-9	9	245.65	2	781	2	2143.7	2	7.7196	2	2278	2	-9	-9	-9	-9	-9
118	2	799.2	34.261	2	34.262	2	5.081	5.015	27.088	0.014	0.0	2	26.6	2	1.78	2	15.6	2	-9	9	-9	9	236.27	2	830	2	2154.3	2	7.6952	2	2283	2	-9	-9	-9	-9	-9
117	2	901.0	34.273	2	34.273	2	4.638	4.566	27.147	0.012	0.0	2	29.3	2	1.99	2	22.8	2	-9	9	-9	9	216.11	2	-9	9	2174.7	2	7.6574	2	2289	2	-9	-9	-9	-9	-9
116	2	999.9	34.308	2	34.309	2	4.164	4.087	27.227	0.012	0.0	2	31.8	2	2.21	2	33.7	2	-9	9	-9	9	192.66	2	-9	9	2199.4	2	7.6127	2	2296	6	-9	-9	-9	-9	-9
115	2	1057.9	34.336	2	34.336	2	3.890	3.811	27.277	0.012	0.0	2	33.5	2	2.32	2	40.3	2	-9	9	-9	9	180.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1197.8	34.418	2	34.417	2	3.498	3.410	27.382	0.010	0.0	2	36.1	2	2.54	2	58.6	2	-9	9	-9	9	149.97	2	-9	9	-9	9	7.5426	2	-9	9	-9	-9	-9	-9	-9
113	2	1237.2	34.441	2	34.440	2	3.418	3.327	27.408	0.010	0.0	2	36.4	2	2.56	2	64.5	2	-9	9	-9	9	141.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1400.8	34.514	2	34.512	2	3.129	3.028	27.494	0.009	0.0	2	37.7	2	2.65	2	82.9	2	-9	9	-9	9	125.22	2	-9	9	-9	9	7.5114	2	-9	9	-9	-9	-9	-9	-9
111	2	1600.8	34.567	2	34.566	2	2.759	2.646	27.571	0.008	0.0	2	37.1	2	2.60	2	95.7	2	-9	9	-9	9	131.26	2	-9	9	-9	9	7.5284	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.0	34.598	2	34.597	2	2.447	2.321	27.624	0.006	0.0	2	35.6	2	2.50	2	101.0	2	-9	9	-9	9	143.80	2	-9	9	-9	9	7.5501	2	-9	9	-9	-9	-9	-9	-9
109	2	2001.1	34.629	2	34.629	2	2.208	2.068	27.669	0.005	0.0	2	34.9	2	2.47	2	105.0	2	-9	9	-9	9	151.24	2	-9	9	-9	9	7.5640	2	-9	9	-9	-9	-9	-9	-9
108	2	2251.3	34.665	2	34.664	2	1.954	1.796	27.719	0.004	0.0	2	34.3	2	2.39	2	110.3	2	-9	9	-9	9	160.40	2	-9	9	-9	9	7.5779	2	-9	9	-9	-9	-9	-9	-9
107	2	2498.6	34.678	2	34.677	2	1.827	1.650	27.741	0.003	0.0	2	33.8	2	2.36	2	114.2	2	-9	9	-9	9	163.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2750.4	34.684	2	34.683	2	1.762	1.563	27.752	0.003	0.0	2	33.6	2	2.35	2	116.2	2	-9	9	-9	9	166.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3002.4	34.687	2	34.686	2	1.750	1.528	27.757	0.003	0.0	2	34.0	2	2.35	2	116.6	2	-9	9	-9	9	167.07	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3250.2	34.688	2	34.687	2	1.764	1.516	27.759	0.003	0.0	2	33.9	2	2.37	2	116.3	2	-9	9	-9	9	167.31	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3250.4	34.688	2	34.689	2	1.764	1.517	27.759	0.003	0.0	2	34.0	2	2.36	2	117.7	2	-9	9	-9	9	166.95	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3499.1	34.690	2	34.688	2	1.783	1.509	27.760	0.003	0.0	2	33.9	2	2.34	2	119.3	2	-9	9	-9	9	168.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3629.1	34.690	2	34.688	2	1.793	1.506	27.761	0.003	0.0	2	33.9	2	2.35	2	119.3	2	-9	9	-9	9	167.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 73 DATE 3/19/94 LATITUDE 33°0.0'S Btm Depth: 3720
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	35.065	2	35.062	2	22.003	22.001	24.267	0.044	0.0	2	0.2	2	0.10	2	1.2	2	2.182	2	1.162	2	219.48	2	342	2	2015.8	2	8.0288	2	2304	2	1.50	-9	-9	-9	-9
135	2	25.3	35.066	2	35.066	2	22.003	21.998	24.269	0.044	0.0	2	0.1	2	0.13	2	1.1	2	2.184	2	1.158	2	219.69	2	343	2	2016.0	2	8.0281	2	2304	2	-9	-9	-9	-9	-9
134	2	51.5	35.037	2	35.042	2	21.125	21.115	24.491	0.051	0.0	2	0.0	2	0.12	2	1.3	2	2.366	2	1.230	2	228.88	2	343	2	2014.6	2	8.0255	2	2303	2	-9	-9	-9	-9	-9
133	2	76.3	34.953	2	34.961	2	18.430	18.417	25.133	0.053	0.0	2	0.0	2	0.11	2	1.1	2	2.656	6	1.371	6	245.70	2	-9	9	2012.5	2	8.0205	2	2297	2	-9	-9	-9	-9	-9
132	2	101.1	34.819	2	34.820	2	17.341	17.324	25.298	0.057	0.0	2	0.0	2	0.10	2	1.0	2	2.739	2	1.394	2	247.10	2	358	2	2010.8	2	8.0126	2	2292	2	-9	-9	-9	-9	-9
131	2	122.7	34.730	2	34.730	2	16.679	16.659	25.388	0.055	0.0	2	0.0	2	0.13	2	1.1	2	3.219	2	1.538	2	245.79	2	-9	9	2014.4	2	8.0008	2	2284	2	-9	-9	-9	-9	-9
130	2	152.0	34.737	2	34.738	2	16.269	16.244	25.489	0.048	0.0	2	0.1	2	0.15	2	1.1	2	2.800	2	1.393	2	240.28	6	380	2	2021.6	2	7.9908	2	2284	2	-9	-9	-9	-9	-9
129	2	201.2	34.750	2	34.753	2	14.591	14.561	25.875	0.026	0.0	2	4.2	2	0.47	2	1.5	2	2.635	2	1.312	2	213.98	2	468	2	2059.4	2	7.9171	2	2287	2	-9	-9	-9	-9	-9
128	3	250.8	34.551	2	34.555	2	12.182	12.149	26.212	0.022	0.0	2	9.4	2	0.79	2	2.1	2	2.594	6	1.254	6	212.61	6	550	2	2082.8	2	7.8547	2	2277	2	-9	-9	-9	-9	-9
127	2	298.8	34.438	2	34.441	2	10.386	10.351	26.453	0.019	0.0	2	14.0	2	1.04	2	3.2	2	2.345	2	1.111	2	212.11	2	633	2	2103.9	2	7.8014	2	2272	2	-9	-9	-9	-9	-9
126	2	342.7	34.333	2	34.334	2	8.607	8.571	26.664	0.020	0.0	2	18.3	2	1.32	2	4.7	2	2.416	2	1.121	2	219.79	6	-9	9	2121.1	2	7.7556	2	2273	2	-9	-9	-9	-9	-9
125	2	396.5	34.321	2	34.321	2	7.545	7.506	26.813	0.019	0.0	2	19.8	2	1.39	2	5.4	2	2.494	2	1.161	2	234.08	2	728	2	2125.9	2	7.7469	2	2271	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	497.2	34.331	2	34.331	2	6.545	6.500	26.959	0.017	0.0	2	21.8	2	1.52	2	7.7	2	2.158	2	1.017	2	246.53	2	743	2	2132.0	2	7.7394	2	2274	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	4	597.0	34.306	2	-9	9	6.048	5.996	27.005	0.017	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	699.7	34.280	2	34.280	2	5.597	5.537	27.041	0.017	0.0	2	24.2	2	1.67	2	11.0	2	1.299	6	0.627	6	248.40	2	770	3	2139.3	2	7.7253	2	2276	2	-9	-9	-9	-9	-9
118	2	797.2	34.266	2	34.265	2	5.178	5.112	27.080	0.016	0.0	2	25.8	2	1.78	2	14.6	2	0.785	6	0.389	6	238.62	2	825	2	2149.5	2	7.7013	2	2284	2	-9	-9	-9	-9	-9
117	2	899.2	34.267	2	34.268	2	4.681	4.610	27.138	0.015	0.0	2	28.5	2	1.96	2	21.5	2	0.406	2	0.214	2	218.01	2	916	2	2170.3	2	7.6614	2	2277	2	-9	-9	-9	-9	-9
116	2	995.8	34.297	2	34.297	2	4.214	4.137	27.213	0.012	0.0	2	31.2	2	2.17	2	30.5	2	0.159	2	0.089	2	197.87	2	1024	2	2192.0	2	7.6213	2	-9	5	-9	-9	-9	-9	-9
115	2	1098.3	34.359	2	34.358	2	3.836	3.754	27.301	0.010	0.0	2	34.0	2	2.37	2	45.0	2	0.036	2	0.013	2	168.00	2	1157	2	2221.8	2	7.5731	2	2306	2	-9	-9	-9	-9	-9
114	2	1198.5	34.435	2	34.435	2	3.581	3.492	27.387	0.010	0.0	2	36.4	2	2.55	2	61.3	2	0.004	2	-0.001	2	138.34	2	1302	2	2254.9	2	7.5277	2	2326	2	-9	-9	-9	-9	-9
113	2	1298.5	34.475	2	34.473	2	3.300	3.206	27.447	0.010	0.0	2	37.3	2	2.63	2	70.1	2	0.004	2	-0.001	2	132.36	2	1338	2	2266.7	2	7.5195	2	2338	2	-9	-9	-9	-9	-9
112	2	1399.1	34.517	2	34.516	2	3.134	3.033	27.496	0.010	0.0	2	37.6	2	2.67	2	79.7	2	-0.003	2	0.001	2	126.33	2	1344	2	2281.6	2	7.5151	2	-9	5	-9	-9	-9	-9	-9
111	2	1597.6	34.563	2	34.563	2	2.761	2.648	27.568	0.007	0.0	2	36.6	2	2.57	2	91.2	2	0.000	2	-0.001	2	136.06	2	1294	2	2285.6	2	7.5364	2	2358	2	-9	-9	-9	-9	-9
110	2	1800.4	34.600	2	34.599	2	2.407	2.282	27.628	0.006	0.0	2	35.0	2	2.46	2	97.7	2	0.003	2	0.001	2	149.25	6	1224	2	2285.0	2	7.5581	2	2367	2	-9	-9	-9	-9	-9
109	2	1999.2	34.632	2	34.631	2	2.173	2.034	27.674	0.004	0.0	2	34.9	2	2.42	2	104.3	2	-9	9	-9	9	-9	1	1247	3	2289.4	2	7.5670	2	2370	2	-9	-9	-9	-9	-9
108	2	2253.3	34.663	2	34.663	2	1.949	1.792	27.718	0.004	0.0	2	33.8	2	2.37	2	109.3	2	-9	9	-9	9	160.31	2	-9	9	2289.9	2	7.5787	2	2378	2	-9	-9	-9	-9	-9
107	2	2492.8	34.678	2	34.678	2	1.821	1.645	27.741	0.003	0.0	2	34.1	2	2.37	2	112.3	2	-0.001	2	-0.001	2	163.91	2	1142	2	2292.7	2	7.5872	2	2379	2	-9	-9	-9	-9	-9
106	2	2746.3	34.684	2	34.683	2	1.755	1.557	27.753	0.003	0.0	2	34.1	2	2.38	2	115.2	2	-9	9	-9	9	165.79	2	1134	2	2291.7	2	7.5909	2	2384	2	-9	-9	-9	-9	-9
105	2	2993.3	34.687	2	34.687	2	1.751	1.529	27.757	0.002	0.0	2	34.1	2	2.34	2	117.0	2	-9	9	-9	9	166.64	2	1124	2	2293.1	2	7.5933	2	2389	2	-9	-9	-9	-9	-9
104	2	3251.4	34.689	2	34.688	2	1.764	1.516	27.759	0.003	0.0	2	33.6	2	2.32	2	118.0	2	-9	9	-9	9	166.93	2	1124	2	2292.8	2	7.5943	2	2386	2	-9	-9	-9	-9	-9
103	2	3494.3	34.690	2	34.690	2	1.782	1.509	27.761	0.003	0.0	2	33.9	2	2.34	2	116.8	2	-0.002	2	-0.001	2	166.85	2	-9	9	2295.2	2	7.5959	2	2387	2	-9	-9	-9	-9	-9
102	2	3499.0	34.689	2	34.688	2	1.783	1.509	27.760	0.003	0.0	2	34.1	2	2.35	2	115.4	2	-9	9	-9	9	167.53	2	1109	2	2293.5	2	7.5942	2	2387	2	-9	-9	-9	-9	-9
101	2	3695.7	34.690	2	34.690	2	1.802	1.508	27.761	0.003	0.0	2	33.8	2	2.35	2	115.6	2	-0.007	2	-0.002	2	167.26	2	1115	2	2293.1	2	7.5945	2	2390	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 74 DATE 3/19/94 LATITUDE 32°30.0'S Btm Depth: 3568
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.5	34.932	2	34.932	2	22.115	22.113	24.134	0.041	0.0	2	0.1	2	0.17	2	1.7	2	2.179	2	1.139	2	218.62	2	343	2	2012.3	3	8.0261	2	2296	6	-9	68.8	4.1	-9	-9
135	2	23.9	34.935	2	34.935	2	22.117	22.112	24.137	0.042	0.0	2	0.1	2	0.13	2	1.5	2	-9	9	-9	9	218.63	2	342	2	2012.5	3	8.0252	2	2295	2	-9	64.3	4.1	0.031	0.008
134	2	48.4	34.708	2	34.708	2	19.393	19.384	24.699	0.056	0.0	2	0.0	2	0.11	2	1.4	2	2.728	2	1.380	2	247.20	2	354	2	2011.4	3	8.0091	2	2283	2	-9	66.1	4.1	0.038	0.014
133	2	72.9	34.707	2	34.711	2	17.964	17.952	25.059	0.057	0.0	2	0.0	2	0.13	2	1.5	2	-9	9	-9	9	251.32	2	352	2	2009.1	3	8.0108	2	2281	2	-9	66.2	4.4	0.055	0.020
132	2	101.3	34.669	2	34.695	3	16.721	16.704	25.330	0.057	0.0	2	0.0	2	0.17	2	1.5	2	2.814	2	1.407	2	248.77	2	357	2	2010.8	3	8.0068	2	2284	2	-9	66.1	4.2	0.101	0.050
131	2	125.0	34.571	2	34.578	2	15.885	15.866	25.448	0.055	0.0	2	0.0	2	0.19	2	1.3	2	-9	9	-9	9	245.91	2	378	3	2016.8	3	7.9893	2	2273	2	-9	59.6	4.1	0.150	0.114
130	2	151.4	34.550	2	34.549	2	15.255	15.232	25.574	0.038	0.1	2	0.9	2	0.26	2	1.5	2	-9	9	-9	9	235.11	2	402	2	2030.1	2	7.9608	2	2271	2	-9	-9	-9	0.140	0.172
129	2	196.4	34.670	2	34.669	2	13.952	13.923	25.948	0.029	0.0	2	5.4	2	0.54	2	2.0	2	-9	1	-9	1	-9	1	485	2	2067.6	2	7.8977	2	2282	2	-9	51.3	-9	0.069	0.082
128	3	247.5	34.564	2	34.564	2	12.314	12.281	26.197	0.024	0.0	2	9.3	2	0.82	2	2.4	2	2.709	2	1.318	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.015	0.011
127	2	299.8	34.413	2	34.410	2	10.129	10.094	26.477	0.019	0.0	2	14.1	2	1.12	2	3.5	2	-9	9	-9	9	217.55	6	610	2	2104.9	2	7.8005	2	2267	2	-9	47.2	4.0	0.002	0.003
126	3	349.6	34.349	2	34.356	2	8.528	8.491	26.688	0.021	0.0	2	18.9	2	1.37	2	5.6	2	2.042	6	0.954	6	210.76	2	726	3	2127.7	2	7.7445	2	2271	2	-9	-9	-9	-9	-9
125	2	401.0	34.332	2	34.331	2	7.488	7.449	26.830	0.019	0.0	2	23.4	2	1.67	2	9.1	2	1.544	2	0.727	2	196.94	2	839	2	2151.8	3	7.6810	2	2271	2	-9	43.1	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.4	34.321	2	34.321	2	6.388	6.342	26.972	0.014	0.0	2	25.0	2	1.71	2	10.6	2	1.297	2	0.617	2	217.61	2	840	2	2152.3	3	7.6892	2	2284	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.6	34.294	2	34.298	2	5.840	5.788	27.021	0.017	0.0	2	23.9	2	1.68	2	10.5	2	1.319	2	0.641	2	245.97	2	763	2	2138.4	2	7.7259	2	2271	2	-9	41.0	2.8	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	700.5	34.272	2	34.272	2	5.401	5.342	27.058	0.015	0.0	2	25.0	2	1.74	2	12.7	2	0.919	2	0.460	2	241.26	2	789	2	2142.0	3	7.7125	2	2221	2	-9	-9	-9	-9	-9
118	2	800.3	34.263	2	34.263	2	5.018	4.952	27.096	0.015	0.0	2	27.0	2	1.84	2	17.0	2	0.615	6	0.309	6	229.88	2	842	2	2158.1	2	7.6859	2	2287	2	-9	45.3	-9	-9	-9
117	2	901.2	34.274	2	34.275	2	4.550	4.479	27.158	0.011	0.0	2	29.8	2	2.01	2	24.1	2	0.340	2	0.185	2	213.50	2	932	2	2176.9	2	7.6508	2	-9	9	-9	-9	-9	-9	-9
116	2	1000.5	34.317	2	34.317	2	4.100	4.023	27.241	0.012	0.0	2	32.3	2	2.24	2	35.8	2	0.070	2	0.043	2	186.92	2	1043	2	2203.0	2	7.6050	2	2302	6	-9	46.9	3.2	-9	-9
115	2	1100.3	34.371	2	34.370	2	3.697	3.616	27.324	0.012	0.0	2	34.3	2	2.38	2	49.0	2	-9	9	-9	9	164.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1200.5	34.435	2	34.434	2	3.438	3.351	27.401	0.010	0.0	2	36.3	2	2.53	2	62.7	2	0.007	2	0.000	2	142.38	2	-9	9	-9	9	7.5318	2	-9	9	-9	-9	-9	-9	-9
113	2	1299.1	34.482	2	34.480	2	3.266	3.173	27.456	0.010	0.0	2	37.1	2	2.61	2	72.6	2	-9	9	-9	9	131.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1399.2	34.521	2	34.519	2	3.078	2.978	27.505	0.010	0.0	2	37.4	2	2.62	2	81.8	2	-9	9	-9	9	126.78	2	-9	9	-9	9	7.5160	2	-9	9	-9	39.5	-9	-9	-9
111	2	1596.4	34.572	2	34.571	2	2.676	2.564	27.583	0.008	0.0	2	36.6	2	2.50	2	94.7	2	-0.004	2	0.000	2	136.66	2	-9	9	-9	9	7.5365	2	-9	9	-9	-9	-9	-9	-9
110	2	1800.2	34.604	2	34.603	2	2.377	2.252	27.634	0.007	0.0	2	35.0	2	2.45	2	100.1	2	-0.002	2	-0.001	2	149.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2003.0	34.640	2	34.638	2	2.124	1.986	27.684	0.006	0.0	2	34.3	2	2.40	2	105.9	2	-9	9	-9	9	156.57	6	-9	9	-9	9	7.5722	2	-9	9	-9	39.4	-9	-9	-9
108	2	2249.6	34.668	2	34.666	2	1.903	1.747	27.726	0.005	0.0	2	33.8	2	2.35	2	112.1	2	-0.004	2	0.000	2	160.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2498.7	34.679	2	34.678	2	1.796	1.619	27.744	0.004	0.0	2	33.5	2	2.35	2	114.5	2	-9	9	-9	9	164.34	2	-9	9	-9	9	7.5877	2	-9	9	-9	-9	-9	-9	-9
106	2	2747.7	34.684	2	34.683	2	1.753	1.554	27.753	0.003	0.0	2	33.3	2	2.32	2	115.2	2	-9	9	-9	9	164.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3001.7	34.687	2	34.685	2	1.753	1.531	27.757	0.003	0.0	2	33.5	2	2.33	2	115.2	2	-9	9	-9	9	166.58	2	-9	9	-9	9	7.5941	2	-9	9	-9	39.6	2.5	-9	-9
104	2	3248.0	34.689	2	34.687	2	1.767	1.520	27.759	0.003	0.0	2	33.6	2	2.35	2	114.3	2	-9	9	-9	9	165.61	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3497.8	34.690	2	34.688	2	1.781	1.508	27.761	0.003	0.0	2	34.0	2	2.36	2	114.8	2	-9	9	-9	9	167.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3501.0	34.690	2	34.688	2	1.781	1.508	27.761	0.004	0.0	2	33.7	2	2.37	2	116.0	2	-9	9	-9	9	167.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3623.8	34.690	2	34.688	2	1.794	1.507	27.761	0.004	0.0	2	33.8	2	2.33	2	117.6	2	-9	9	-9	9	168.04	2	-9	9	-9	9	-9	9	-9	9	-9	38.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 75 DATE 3/19/94 LATITUDE 31°59.8'S Btm Depth: 3612
CAST 1 LONGITUDE 102°58.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	35.364	2	35.365	2	22.669	22.667	24.305	0.040	0.0	2	0.1	2	0.10	2	0.8	2	-9	9	-9	9	216.41	2	330	2	2022.9	3	8.0445	2	2323	6	1.50	-9	-9	-9	-9
135	2	27.2	35.361	2	35.363	2	22.646	22.640	24.311	0.045	0.0	2	0.0	2	0.07	2	0.9	2	-9	9	-9	9	216.91	2	329	2	-9	9	8.0436	2	-9	9	-9	-9	-9	-9	-9
134	2	50.7	34.967	2	34.974	2	19.723	19.714	24.812	0.057	0.0	2	0.0	2	0.08	2	1.0	2	-9	9	-9	9	242.20	2	353	2	-9	9	8.0186	2	-9	9	-9	-9	-9	-9	-9
133	2	77.2	34.912	2	34.874	3	17.954	17.941	25.220	0.053	0.0	2	0.0	2	0.12	2	0.7	2	-9	9	-9	9	248.33	2	-9	9	-9	9	8.0158	2	-9	9	-9	-9	-9	-9	-9
132	2	102.2	35.027	2	35.026	2	17.790	17.773	25.348	0.055	0.0	2	0.1	2	0.12	2	0.8	2	-9	9	-9	9	239.49	2	352	2	-9	9	8.0200	2	-9	9	-9	-9	-9	-9	-9
131	2	148.0	34.843	2	34.846	2	16.631	16.607	25.487	0.046	0.0	2	0.0	2	0.14	2	0.8	2	-9	9	-9	9	240.11	2	-9	9	-9	9	7.9991	2	-9	9	-9	-9	-9	-9	-9
130	2	199.8	34.862	2	34.866	2	15.257	15.226	25.816	0.032	0.1	2	2.7	2	0.35	2	1.0	2	-9	9	-9	9	215.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	2	197.2	34.864	2	34.873	2	15.308	15.278	25.806	0.031	0.1	2	2.6	2	0.36	2	0.9	2	-9	9	-9	9	214.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	247.0	34.748	2	34.749	2	13.330	13.296	26.138	0.025	0.0	2	7.5	2	0.72	2	2.1	2	-9	9	-9	9	206.34	2	518	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	292.5	34.563	2	34.565	2	11.479	11.442	26.354	0.022	0.0	2	11.8	2	1.01	2	3.1	2	-9	9	-9	9	204.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	346.4	34.413	2	34.470	3	9.333	9.294	26.611	0.020	0.0	2	15.3	2	1.24	2	4.0	2	-9	9	-9	9	207.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	395.5	34.344	2	34.345	2	7.857	7.818	26.786	0.021	0.0	2	21.4	2	1.56	2	6.8	2	-9	9	-9	9	210.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.0	34.331	2	34.331	2	6.564	6.518	26.957	0.018	0.0	2	22.6	2	1.54	2	7.9	2	-9	9	-9	9	238.30	2	754	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	607.0	34.302	2	34.302	2	5.940	5.887	27.015	0.018	0.0	2	23.6	2	1.65	2	9.6	2	-9	9	-9	9	245.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	708.0	34.276	2	34.277	2	5.503	5.443	27.050	0.017	0.0	2	24.8	2	1.72	2	11.3	2	-9	9	-9	9	244.58	2	782	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	802.3	34.267	2	34.267	2	5.065	4.999	27.094	0.017	0.0	2	27.4	2	1.91	2	16.1	2	-9	9	-9	9	231.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	905.0	34.279	2	34.280	2	4.530	4.459	27.164	0.016	0.0	2	30.3	2	2.07	2	24.9	2	-9	9	-9	9	209.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1001.9	34.320	2	34.319	2	4.084	4.008	27.244	0.010	0.0	2	32.2	2	2.20	2	36.3	2	-9	9	-9	9	188.08	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1094.2	34.372	2	34.372	2	3.794	3.712	27.316	0.012	0.0	2	35.0	2	2.38	2	48.3	2	-9	9	-9	9	161.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1195.2	34.427	2	34.427	2	3.448	3.361	27.394	0.011	0.0	2	36.4	2	2.51	2	60.4	2	-9	9	-9	9	146.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1299.1	34.485	2	34.484	2	3.294	3.200	27.455	0.011	0.0	2	37.5	2	2.61	2	73.4	2	-9	9	-9	9	130.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1396.5	34.523	2	34.523	2	3.105	3.004	27.504	0.010	0.0	2	37.8	2	2.62	2	83.7	2	-9	9	-9	9	127.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1596.3	34.570	2	34.569	2	2.697	2.585	27.578	0.008	0.0	2	36.4	2	2.54	2	95.2	2	-9	9	-9	9	131.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1795.8	34.605	2	34.605	2	2.366	2.241	27.636	0.008	0.0	2	35.2	2	2.44	2	100.1	2	-9	9	-9	9	149.98	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1991.6	34.639	2	34.639	2	2.124	1.986	27.684	0.006	0.0	2	34.5	2	2.39	2	105.2	2	-9	9	-9	9	156.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2254.9	34.668	2	34.667	2	1.908	1.751	27.725	0.005	0.0	2	34.3	2	2.35	2	111.2	2	-9	9	-9	9	161.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2503.2	34.678	2	34.676	2	1.803	1.626	27.742	0.004	0.0	2	34.2	2	2.38	2	114.3	2	-9	9	-9	9	164.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2747.2	34.682	2	34.681	2	1.768	1.569	27.750	0.003	0.0	2	34.1	2	2.38	2	117.0	2	-9	9	-9	9	165.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2995.5	34.686	2	34.684	2	1.767	1.544	27.755	0.003	0.0	2	33.8	2	2.35	2	119.4	2	-9	9	-9	9	165.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3247.8	34.688	2	34.686	2	1.778	1.530	27.757	0.003	0.0	2	34.3	2	2.34	2	119.7	2	-9	9	-9	9	166.85	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3499.7	34.689	2	34.688	2	1.793	1.519	27.759	0.003	0.0	2	33.8	2	2.32	2	118.1	2	-9	9	-9	9	166.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	3	3499.9	34.689	2	34.688	2	1.792	1.519	27.759	0.003	0.0	2	34.9	2	2.34	2	117.1	2	-9	9	-9	9	167.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3646.6	34.689	2	34.688	2	1.804	1.515	27.759	0.004	0.0	2	34.4	2	2.37	2	116.4	2	-9	9	-9	9	166.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 76 DATE 3/20/94 LATITUDE 31°29.5'S Btm Depth: 3529
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.3	35.412	2	35.413	2	22.807	22.805	24.302	0.041	0.0	2	0.1	2	0.10	2	1.1	2	2.097	2	1.110	2	215.54	2	325	2	2019.9	2	8.0478	2	2327	6	-9	74.9	-9	-9	-9
135	2	24.1	35.411	2	35.413	2	22.809	22.804	24.302	0.042	0.0	2	0.0	2	0.10	2	1.1	2	2.105	2	1.090	2	215.45	2	323	2	2020.0	2	8.0475	2	2322	2	-9	71.5	-9	-9	-9
134	3	48.7	35.327	2	-9	5	21.490	21.480	24.611	0.048	0.0	2	0.0	2	0.09	2	0.9	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	77.2	-9	-9	-9
133	2	99.0	35.136	2	35.149	2	18.519	18.501	25.251	0.052	0.0	2	0.0	2	0.09	2	1.0	2	-9	9	-9	9	239.71	2	333	2	2017.1	2	8.0300	2	2310	2	-9	81.0	-9	-9	-9
132	2	152.0	34.963	2	34.964	2	17.218	17.193	25.440	0.041	-9	1	-9	1	-9	1	-9	1	2.678	2	1.383	2	238.57	2	355	2	2020.9	2	8.0086	2	2293	2	-9	68.0	-9	-9	-9
131	2	202.1	34.880	2	34.886	2	16.263	16.230	25.603	0.031	0.1	2	0.3	2	0.19	2	0.9	2	-9	9	-9	9	225.97	2	388	2	2037.0	2	7.9759	2	-9	5	-9	63.5	-9	-9	-9
130	2	246.4	34.830	2	34.824	2	14.628	14.591	25.930	0.025	0.0	2	4.6	2	0.51	2	1.4	2	2.512	2	1.206	2	209.99	2	466	2	2066.9	2	7.9116	2	2289	2	-9	51.8	-9	-9	-9
129	2	297.6	34.569	2	34.569	2	12.179	12.140	26.228	0.020	0.0	2	9.8	2	0.85	2	2.0	2	-9	9	-9	9	206.86	2	541	2	2088.1	2	7.8446	2	2279	2	-9	54.6	-9	-9	-9
128	3	350.8	34.385	2	34.388	2	9.579	9.540	26.549	0.018	0.0	2	16.7	2	1.27	2	4.0	2	2.109	2	0.992	2	205.33	2	682	2	2119.6	2	7.7659	2	-9	5	-9	-9	-9	-9	-9
127	2	401.3	34.345	2	34.343	2	8.261	8.220	26.726	0.019	0.0	2	20.7	2	1.49	2	6.0	2	-9	9	-9	9	204.29	2	753	2	2137.3	2	7.7185	2	2267	2	-9	48.1	-9	-9	-9
126	2	496.6	34.326	2	34.326	2	6.660	6.614	26.940	0.018	0.0	2	23.6	2	1.62	2	8.3	2	1.668	2	0.775	2	224.01	2	794	2	2145.2	2	7.7077	2	2269	2	-9	-9	-9	-9	-9
125	2	602.0	34.306	2	34.308	2	6.029	5.976	27.008	0.016	0.0	2	25.2	2	1.72	2	10.3	2	1.143	2	0.546	2	229.04	2	808	6	2148.5	2	7.7021	2	2277	2	-9	48.2	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	703.7	34.282	2	34.283	2	5.525	5.466	27.051	0.017	0.0	2	25.7	2	1.80	2	12.1	2	0.847	2	0.428	2	231.46	2	819	2	2151.5	2	7.6981	2	2276	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	801.7	34.267	2	34.267	2	5.045	4.979	27.097	0.016	0.0	2	27.7	2	1.91	2	16.0	2	-9	9	-9	9	225.74	2	859	2	2160.6	2	7.6795	2	2278	2	-9	50.6	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	896.0	34.276	2	34.276	2	4.597	4.526	27.154	0.012	0.0	2	29.6	2	2.04	2	24.5	2	0.274	2	0.147	2	212.13	2	923	2	2176.3	2	7.6529	2	2289	2	-9	-9	-9	-9	-9
118	2	1002.5	34.329	2	34.329	2	4.137	4.061	27.246	0.014	0.0	2	32.5	2	2.29	2	38.5	2	-9	9	-9	9	177.67	2	1134	3	2210.2	2	7.5903	2	2296	2	-9	-9	-9	-9	-9
117	2	1102.1	34.386	2	34.329	4	3.865	3.782	27.320	0.011	0.0	2	35.5	2	2.47	2	51.2	2	0.009	2	0.009	2	152.66	2	1214	2	2236.9	2	7.5502	2	2309	6	-9	-9	-9	-9	-9
116	2	1201.6	34.444	2	34.445	2	3.655	3.565	27.388	0.012	0.0	2	37.3	2	2.61	2	64.1	2	-9	9	-9	9	133.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1201.3	34.444	2	34.443	2	3.655	3.565	27.388	0.011	0.0	2	36.8	2	2.63	2	63.7	2	-9	9	-9	9	133.17	2	-9	9	-9	9	7.5230	2	-9	9	-9	-9	-9	-9	-9
114	2	1298.7	34.484	2	34.484	2	3.393	3.298	27.445	0.010	0.0	2	37.1	2	2.64	2	74.1	2	-9	9	-9	9	128.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1401.6	34.516	2	34.514	2	3.141	3.040	27.495	0.010	0.0	2	36.6	2	2.57	2	81.9	2	-9	9	-9	9	133.46	2	-9	9	-9	9	7.5292	2	-9	9	-9	-9	-9	-9	-9
112	2	1500.1	34.539	2	34.539	2	2.906	2.799	27.536	0.008	0.0	2	36.2	2	2.55	2	86.9	2	0.001	2	-0.002	2	138.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1604.3	34.562	2	34.560	2	2.698	2.585	27.573	0.008	0.0	2	36.0	2	2.53	2	90.8	2	-9	9	-9	9	144.47	2	-9	9	-9	9	7.5479	2	-9	9	-9	-9	-9	-9	-9
110	2	1697.3	34.582	2	34.581	2	2.529	2.411	27.603	0.007	0.0	2	35.7	2	2.51	2	94.7	2	-9	9	-9	9	148.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1801.4	34.602	2	34.601	2	2.371	2.246	27.633	0.006	0.0	2	35.8	2	2.46	2	99.5	2	-9	9	-9	9	151.67	2	-9	9	-9	9	7.5633	2	-9	9	-9	-9	-9	-9	-9
108	2	1971.0	34.634	2	34.634	2	2.157	2.020	27.677	0.006	0.0	2	34.5	2	2.41	2	106.3	2	0.000	2	0.000	2	155.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2201.1	34.662	2	34.660	2	1.940	1.787	27.717	0.004	0.0	2	34.4	2	2.37	2	113.3	2	-9	9	-9	9	160.34	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2497.6	34.676	2	34.676	2	1.809	1.632	27.740	0.003	0.0	2	33.8	2	2.40	2	116.8	2	-9	9	-9	9	163.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2749.4	34.682	2	34.680	2	1.771	1.572	27.749	0.003	0.0	2	34.2	2	2.40	2	118.6	2	-9	9	-9	9	164.80	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2999.3	34.686	2	34.684	2	1.767	1.544	27.755	0.003	0.0	2	34.0	2	2.36	2	119.9	2	-9	9	-9	9	165.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3001.6	34.686	2	34.685	2	1.766	1.544	27.755	0.003	0.0	2	33.9	2	2.35	2	120.9	2	-9	9	-9	9	165.58	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3245.7	34.688	2	34.687	2	1.775	1.528	27.758	0.003	0.0	2	33.7	2	2.35	2	120.0	2	-9	9	-9	9	166.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3564.1	34.689	2	34.688	2	1.794	1.514	27.760	0.003	0.0	2	34.0	2	2.37	2	118.6	2	-9	9	-9	9	166.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 77 DATE 3/20/94 LATITUDE 31°0.0'S Btm Depth: 3504
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.0	35.476	2	35.479	2	23.136	23.134	24.256	0.042	0.0	2	0.0	2	0.12	2	1.6	2	2.049	2	1.114	2	214.20	2	325	2	2021.0	2	8.0501	2	2325	6	1.40	-9	-9	-9	-9
135	2	26.0	35.475	2	35.486	2	23.141	23.136	24.255	0.044	0.0	2	0.0	2	0.13	2	1.6	2	2.232	2	1.206	2	214.63	2	327	2	2021.9	2	8.0492	2	2328	2	1.40	-9	-9	-9	-9
134	3	47.9	35.317	2	35.312	2	20.748	20.739	24.806	0.054	0.0	2	0.0	2	0.13	2	1.6	2	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	2	75.4	35.346	2	35.354	2	19.757	19.743	25.094	0.050	0.0	2	0.0	2	0.14	2	1.6	2	2.480	2	1.267	2	237.41	2	332	2	2017.8	2	8.0461	2	2322	2	1.40	-9	-9	-9	-9
132	2	95.8	35.301	2	35.300	2	19.101	19.084	25.230	0.048	0.0	2	0.0	2	0.15	2	1.6	2	2.491	6	1.283	6	235.87	2	339	2	2020.1	2	8.0381	2	2308	3	1.50	-9	-9	-9	-9
131	2	127.9	35.091	2	35.098	2	17.977	17.955	25.353	0.044	0.0	2	0.0	2	0.13	2	1.5	2	2.451	2	1.247	2	236.76	2	349	2	2021.4	2	8.0205	2	2298	3	1.50	-9	-9	-9	-9
130	2	151.6	34.975	2	34.982	2	17.246	17.221	25.442	0.042	0.0	2	0.0	2	0.13	2	1.4	2	2.680	2	1.354	2	235.38	2	370	2	2021.1	2	8.0073	2	2298	2	1.50	-9	-9	-9	-9
129	2	202.4	34.934	2	34.932	2	16.192	16.160	25.660	0.032	0.1	2	1.2	2	0.33	2	1.6	2	2.564	2	1.284	2	217.55	2	411	2	2049.3	2	7.9594	2	2300	2	1.30	-9	-9	-9	-9
128	2	251.6	34.752	2	34.751	2	14.230	14.194	25.955	0.026	0.0	2	5.6	2	0.61	2	2.0	2	2.533	2	1.224	2	208.81	2	493	2	2070.7	2	7.9001	2	2289	2	1.40	-9	-9	-9	-9
127	2	299.6	34.574	2	34.575	2	12.197	12.157	26.228	0.022	0.0	2	9.9	2	0.88	2	2.7	2	2.393	6	1.152	6	207.62	2	556	2	2088.6	2	7.8487	2	2274	2	1.40	-9	-9	-9	-9
126	2	349.9	34.445	2	34.446	2	10.303	10.262	26.474	0.019	0.0	2	14.7	2	1.14	2	3.8	2	2.309	2	1.084	2	212.10	2	632	2	2106.0	2	7.8013	2	2275	2	1.40	-9	-9	-9	-9
125	2	401.1	34.356	2	34.356	2	8.429	8.387	26.710	0.018	0.0	2	20.0	2	1.47	2	6.4	2	1.927	2	0.903	2	208.50	6	750	3	2129.0	2	7.7353	2	2271	2	1.30	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	501.2	34.327	2	34.327	2	6.684	6.638	26.938	0.017	0.0	2	24.0	2	1.74	2	9.6	2	1.634	2	0.773	2	221.93	2	808	2	2145.1	2	7.7025	2	2276	2	1.30	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.3	34.298	2	34.299	2	5.944	5.892	27.011	0.017	0.0	2	24.3	2	1.75	2	10.6	2	1.410	2	0.663	2	241.83	2	779	2	2140.2	2	7.7221	2	2272	2	1.50	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	701.4	34.275	2	34.276	2	5.495	5.436	27.049	0.017	0.0	2	25.5	2	1.80	2	12.9	2	-9	1	-9	1	240.17	2	804	2	2146.4	2	7.7098	2	2276	2	1.30	-9	-9	-9	-9
118	2	801.7	34.265	2	34.265	2	4.999	4.933	27.100	0.014	0.0	2	27.8	2	1.95	2	18.3	2	0.549	6	0.312	6	225.83	2	872	2	2162.4	2	7.6793	2	2287	2	1.20	-9	-9	-9	-9
117	2	904.1	34.284	2	34.285	2	4.557	4.485	27.165	0.015	0.0	2	30.8	2	2.16	2	27.2	2	-9	9	-9	9	201.87	2	987	2	2185.0	2	7.6342	2	2292	2	1.00	-9	-9	-9	-9
116	2	999.4	34.328	2	34.329	2	4.120	4.043	27.247	0.012	0.0	2	33.8	2	2.39	2	37.6	2	0.052	2	0.034	2	177.61	2	1102	2	2211.4	2	7.5909	2	2302	6	0.90	-9	-9	-9	-9
115	2	1095.2	34.384	2	34.384	2	3.833	3.751	27.321	0.012	0.0	2	35.5	2	2.54	2	51.0	2	-9	9	-9	9	153.46	6	1228	2	2236.7	2	7.5505	2	2310	2	0.60	-9	-9	-9	-9
114	2	1197.5	34.457	2	34.456	2	3.603	3.514	27.403	0.010	0.0	2	37.6	2	2.66	2	68.1	2	0.000	2	-0.001	2	129.47	2	1343	3	2263.6	2	7.5189	2	2328	2	0.40	-9	-9	-9	-9
113	2	1297.6	34.497	2	34.497	2	3.418	3.322	27.453	0.008	0.0	2	37.9	2	2.69	2	77.1	2	-9	9	-9	9	123.90	2	1353	2	2277.9	2	7.5133	2	2340	2	0.40	-9	-9	-9	-9
112	2	1399.0	34.526	2	34.526	2	3.136	3.036	27.503	0.010	0.0	2	37.7	2	2.71	2	83.8	2	-0.005	2	0.000	2	126.54	2	1348	2	2284.4	2	7.5208	2	2353	2	0.30	-9	-9	-9	-9
111	2	1501.7	34.544	2	34.545	2	2.891	2.784	27.541	0.008	0.0	2	37.0	2	2.65	2	87.5	2	-9	9	-9	9	136.18	2	1254	3	2281.1	2	7.5356	2	2354	2	0.30	-9	-9	-9	-9
110	2	1602.0	34.567	2	34.567	2	2.670	2.557	27.579	0.006	0.0	2	36.3	2	2.59	2	93.1	2	-0.005	2	-0.002	2	142.56	2	1291	2	2281.8	2	7.5480	2	2359	2	0.40	-9	-9	-9	-9
109	2	1798.6	34.606	2	34.607	2	2.346	2.222	27.638	0.006	0.0	2	35.2	2	2.52	2	101.6	2	-9	9	-9	9	151.53	2	1204	2	2284.8	2	7.5641	2	2373	2	0.30	-9	-9	-9	-9
108	2	2003.4	34.641	2	34.641	2	2.099	1.961	27.687	0.005	0.0	2	34.2	2	2.44	2	108.8	2	-9	9	-9	9	157.08	2	1179	2	2287.6	2	7.5749	2	2375	2	0.30	-9	-9	-9	-9
107	2	2253.5	34.664	2	34.663	2	1.898	1.742	27.722	0.004	0.0	2	34.5	2	2.43	2	115.4	2	-0.003	2	-0.003	2	160.32	2	1153	2	2293.7	2	7.5811	2	2384	2	0.30	-9	-9	-9	-9
106	2	2501.5	34.674	2	34.675	2	1.817	1.640	27.739	0.004	0.0	2	34.5	2	2.43	2	117.0	2	-9	9	-9	9	162.24	2	1146	2	2296.4	2	7.5868	2	2388	2	0.30	-9	-9	-9	-9
105	2	2749.6	34.681	2	34.681	2	1.779	1.580	27.748	0.003	0.0	2	34.3	2	2.43	2	119.0	2	-9	9	-9	9	164.06	2	1134	2	2295.7	2	7.5903	2	2386	2	0.20	-9	-9	-9	-9
104	2	2999.1	34.685	2	-9	9	1.777	1.554	27.754	0.003	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	164.98	6	1129	2	2296.1	2	-9	9	-9	5	0.30	-9	-9	-9	-9
103	3	3248.3	34.687	2	-9	5	1.787	1.540	27.756	0.003	-9	1	-9	1	-9	1	-9	1	-0.005	2	0.000	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3245.7	34.687	2	34.687	2	1.787	1.539	27.756	0.002	0.0	2	34.2	2	2.40	2	121.0	2	-9	9	-9	9	165.86	2	1124	2	2294.4	2	7.5954	2	2392	2	0.30	-9	-9	-9	-9
101	2	3477.5	34.689	2	34.688	2	1.798	1.527	27.758	0.003	0.0	2	33.8	2	2.38	2	121.3	2	-9	9	-9	9	166.27	2	1125	2	2295.6	2	7.5930	2	2393	2	0.30	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 78 DATE 3/20/94 LATITUDE 30°30.3'S Btm Depth: 3487
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.8	35.311	2	35.311	2	23.250	23.248	24.098	0.039	0.0	2	0.1	2	0.11	2	0.9	2	-9	9	-9	9	214.69	2	327	2	2016.9	2	8.0434	2	2317	6	-9	62.9	4.2	0.025	0.009
135	2	24.3	35.310	2	35.312	2	23.248	23.243	24.099	0.039	0.0	2	0.0	2	0.09	2	1.0	2	-9	9	-9	9	214.47	2	331	2	2016.2	2	8.0444	2	2315	2	-9	64.0	4.3	0.025	0.011
134	2	50.6	35.017	2	35.039	2	19.705	19.696	24.854	0.052	0.0	2	0.0	2	0.08	2	0.8	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	5	-9	64.6	4.5	0.034	0.014
133	2	73.6	34.970	2	34.972	2	18.560	18.548	25.113	0.050	0.0	2	0.0	2	0.08	2	0.8	2	-9	9	-9	9	245.67	2	341	2	2011.5	2	8.0241	2	2299	2	-9	64.7	4.4	0.044	0.016
132	2	99.6	35.007	2	35.007	2	18.066	18.049	25.266	0.046	0.0	2	0.0	2	0.10	2	0.8	2	-9	9	-9	9	243.38	2	346	2	2014.5	2	8.0231	2	2301	2	-9	63.6	4.2	0.060	0.023
131	2	125.4	34.989	2	34.984	2	17.674	17.653	25.349	0.046	0.0	2	0.0	2	0.12	2	0.9	2	-9	9	-9	9	241.31	2	349	2	2016.8	2	8.0162	2	2296	2	-9	63.8	4.2	0.085	0.036
130	2	153.6	34.868	2	34.868	2	16.864	16.839	25.451	0.037	0.0	2	0.0	2	0.14	2	0.8	2	-9	9	-9	9	240.40	2	361	2	2019.1	2	8.0044	2	2293	2	-9	64.0	-9	0.140	0.100
129	2	200.9	34.910	2	34.908	2	15.954	15.922	25.696	0.031	0.2	2	1.5	2	0.28	2	0.9	2	-9	9	-9	9	218.76	2	405	2	2045.8	2	7.9576	2	2290	2	-9	50.5	-9	0.120	0.144
128	2	251.0	34.772	2	34.781	2	13.899	13.863	26.039	0.025	0.0	2	6.1	2	0.56	2	1.5	2	-9	9	-9	9	207.71	2	489	2	2073.1	2	7.8932	2	2288	2	-9	-9	-9	0.031	0.036
127	2	299.1	34.542	2	34.545	2	11.644	11.606	26.307	0.021	0.0	2	11.4	2	0.89	2	2.3	2	-9	9	-9	9	208.58	2	564	2	2094.6	2	7.8354	2	2280	2	-9	46.6	3.2	0.004	0.005
126	2	348.7	34.403	2	34.404	2	9.608	9.568	26.558	0.020	0.0	2	16.8	2	1.25	2	4.1	2	-9	9	-9	9	207.88	2	676	2	2116.9	2	7.7720	2	2274	2	-9	-9	-9	-9	-9
125	2	399.5	34.337	2	34.335	2	8.088	8.047	26.746	0.019	0.0	2	22.0	2	1.59	2	6.8	2	-9	9	-9	9	200.86	2	786	2	2141.9	2	7.7074	2	2268	2	-9	41.9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	506.0	34.325	2	34.326	2	6.566	6.520	26.952	0.018	0.0	2	25.0	2	1.74	2	9.7	2	-9	9	-9	9	216.78	6	835	2	2150.9	2	7.6938	2	2273	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	602.5	34.301	2	34.300	2	5.944	5.891	27.014	0.017	0.0	2	25.2	2	1.71	2	10.6	2	-9	9	-9	9	233.54	2	799	2	2146.5	2	7.7075	2	2272	2	-9	40.4	3.0	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	700.1	34.271	2	34.270	2	5.442	5.383	27.053	0.016	0.0	2	25.7	2	1.74	2	12.0	2	-9	9	-9	9	241.98	2	797	2	2146.0	2	7.7117	2	2279	2	-9	-9	-9	-9	-9
118	2	800.8	34.264	2	34.263	2	4.951	4.887	27.104	0.015	0.0	2	28.0	2	1.92	2	17.4	2	-9	9	-9	9	226.18	2	859	2	2161.6	2	7.6770	2	2282	2	-9	39.5	-9	-9	-9
117	2	897.5	34.286	2	34.285	2	4.466	4.396	27.177	0.013	0.0	2	30.8	2	2.13	2	26.8	2	-9	9	-9	9	201.46	2	983	2	2186.1	2	7.6300	2	2292	2	-9	-9	-9	-9	-9
116	2	996.3	34.335	2	34.335	2	4.042	3.967	27.261	0.012	0.0	2	33.5	2	2.32	2	39.8	2	-9	9	-9	9	174.61	2	1093	2	2213.7	2	7.5832	2	2299	6	-9	42.1	2.4	-9	-9
115	2	1100.1	34.403	2	34.402	2	3.719	3.638	27.348	0.011	0.0	2	36.3	2	2.51	2	55.0	2	-9	9	-9	9	147.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1204.1	34.461	2	34.459	2	3.473	3.385	27.419	0.010	0.0	2	37.6	2	2.62	2	67.8	2	-9	9	-9	9	131.34	2	-9	9	-9	9	7.5188	2	-9	9	-9	-9	-9	-9	-9
113	2	1298.6	34.505	2	34.504	2	3.293	3.199	27.472	0.008	0.0	2	37.9	2	2.65	2	78.8	2	-9	9	-9	9	125.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1400.9	34.531	2	34.530	2	3.077	2.977	27.513	0.005	0.0	2	37.5	2	2.61	2	86.2	2	-9	9	-9	9	128.72	2	-9	9	-9	9	7.5237	2	-9	9	-9	40.1	-9	-9	-9
111	2	1495.0	34.549	2	34.550	2	2.852	2.746	27.548	0.006	0.0	2	36.7	2	2.55	2	90.4	2	-9	9	-9	9	137.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1599.9	34.572	2	34.569	2	2.602	2.491	27.588	0.008	0.0	2	35.7	2	2.49	2	93.7	2	-9	9	-9	9	146.66	2	-9	9	-9	9	7.5532	2	-9	9	-9	-9	-9	-9	-9
109	2	1798.1	34.608	2	34.606	2	2.318	2.194	27.642	0.004	0.0	2	34.8	2	2.42	2	100.1	2	-9	9	-9	9	154.21	2	-9	9	-9	9	7.5672	2	-9	9	-9	-9	-9	-9	-9
108	2	1996.5	34.639	2	34.637	2	2.089	1.952	27.686	0.005	0.0	2	34.6	2	2.41	2	107.6	2	-9	9	-9	9	157.22	2	-9	9	-9	9	7.5770	2	-9	9	-9	39.6	-9	-9	-9
107	2	2252.6	34.662	2	34.661	2	1.886	1.730	27.722	0.004	0.0	2	34.6	2	2.42	2	114.9	2	-9	9	-9	9	159.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2501.6	34.670	2	34.668	2	1.820	1.642	27.735	0.003	0.0	2	34.9	2	2.41	2	118.6	2	-9	9	-9	9	160.92	2	-9	9	-9	9	7.5889	2	-9	9	-9	-9	-9	-9	-9
105	2	2748.0	34.677	2	34.675	2	1.801	1.602	27.743	0.002	0.0	2	34.4	2	2.39	2	120.1	2	-9	9	-9	9	163.18	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3025.9	34.682	2	34.680	2	1.795	1.569	27.750	0.002	0.0	2	34.2	2	2.38	2	121.1	2	-9	9	-9	9	164.75	2	-9	9	-9	9	7.5921	2	-9	9	-9	37.3	-9	-9	-9
103	2	3247.7	34.685	2	34.686	2	1.802	1.554	27.753	0.002	0.0	2	34.1	2	2.35	2	120.8	2	-9	9	-9	9	165.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3251.2	34.685	2	34.683	2	1.803	1.555	27.753	0.002	0.0	2	34.0	2	2.36	2	119.2	2	-9	9	-9	9	165.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3404.1	34.686	2	34.689	2	1.812	1.548	27.755	0.002	0.0	2	34.1	2	2.40	2	118.2	2	-9	9	-9	9	167.04	6	-9	9	-9	9	-9	9	-9	9	-9	37.3	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 79 DATE 3/21/94 LATITUDE 30°0.0'S Btm Depth: 3626
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	35.256	2	33.294	4	23.249	23.247	24.056	0.043	0.0	2	0.1	2	0.13	2	1.3	2	2.062	2	1.097	2	215.16	2	333	2	2021.8	3	8.0447	2	2313	6	1.50	-9	-9	-9	-9
135	2	24.7	35.254	2	33.295	4	23.246	23.241	24.057	0.043	0.0	2	0.1	2	0.10	2	1.1	2	2.093	2	1.104	2	214.98	2	335	2	2021.0	3	8.0444	2	2309	2	-9	-9	-9	-9	-9
134	2	48.2	35.065	2	33.114	4	20.152	20.143	24.774	0.058	0.0	2	0.1	2	0.09	2	1.0	2	2.582	2	1.301	2	242.07	2	342	2	2022.0	3	8.0295	2	2300	2	-9	-9	-9	-9	-9
133	2	74.0	35.008	2	33.050	4	18.880	18.867	25.061	0.053	0.0	2	0.1	2	0.11	2	1.2	2	2.762	2	1.410	2	246.76	6	344	2	2015.4	3	8.0297	2	2297	2	-9	-9	-9	-9	-9
132	3	97.6	34.924	2	34.922	2	17.836	17.820	25.258	0.054	0.0	2	0.2	2	0.13	2	1.1	2	2.680	6	1.375	6	245.61	2	352	2	2014.8	2	8.0192	2	2296	2	-9	-9	-9	-9	-9
131	2	126.1	34.884	2	34.883	2	17.182	17.161	25.386	0.048	0.0	2	0.1	2	0.15	2	1.1	2	2.690	2	1.374	2	241.91	2	362	2	2019.7	2	8.0083	2	2290	2	-9	-9	-9	-9	-9
130	2	151.5	34.833	2	34.834	2	16.639	16.615	25.477	0.045	0.0	2	0.1	2	0.16	2	1.0	2	2.728	2	1.387	2	237.17	2	378	2	2023.8	2	7.9934	2	2291	2	-9	-9	-9	-9	-9
129	2	201.8	34.779	2	34.781	2	15.016	14.985	25.805	0.033	0.1	2	3.4	2	0.38	2	1.2	2	2.646	6	1.318	6	216.58	6	449	2	2055.4	2	7.9302	2	2290	2	-9	-9	-9	-9	-9
128	2	248.0	34.671	2	34.671	2	13.291	13.256	26.086	0.022	0.0	2	7.9	2	0.68	2	1.9	2	2.404	2	1.165	2	206.68	2	-9	9	2078.9	2	7.8721	2	2289	2	-9	-9	-9	-9	-9
127	2	301.1	34.507	2	34.506	2	11.328	11.290	26.339	0.021	0.0	2	11.7	2	0.94	2	2.4	2	2.474	2	1.177	2	213.27	2	592	2	2089.4	2	7.8323	2	2275	2	-9	-9	-9	-9	-9
126	2	351.4	34.389	2	34.392	2	9.314	9.275	26.595	0.019	0.0	2	17.1	2	1.28	2	4.2	2	2.132	2	1.007	2	211.77	2	685	2	-9	1	7.7682	2	2274	2	-9	-9	-9	-9	-9
125	2	347.9	34.392	2	34.393	2	9.357	9.318	26.591	0.020	0.0	2	17.0	2	1.28	2	4.2	2	2.144	2	1.008	2	212.19	2	689	2	2116.6	2	7.7713	2	2271	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.9	34.327	2	34.327	2	6.456	6.411	26.968	0.017	0.0	2	22.8	2	1.59	2	8.5	2	1.708	2	0.792	2	238.42	2	766	2	2128.3	2	7.7243	2	2278	3	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	597.3	34.297	2	34.297	2	5.896	5.844	27.017	0.016	0.0	2	23.4	2	1.61	2	9.7	2	1.328	6	0.633	6	247.56	2	764	2	2127.8	2	7.7298	2	2276	2	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	700.3	34.269	2	34.269	2	5.377	5.319	27.058	0.015	0.0	2	25.2	2	1.75	2	12.3	2	0.927	2	0.466	2	242.85	2	796	2	2132.7	2	7.7104	2	2275	2	-9	-9	-9	-9	-9
118	2	795.5	34.274	2	34.275	2	5.003	4.938	27.107	0.015	0.0	2	28.3	2	1.98	2	18.5	2	0.462	2	0.242	2	216.97	2	911	2	2158.0	2	7.6640	2	2284	2	-9	-9	-9	-9	-9
117	2	903.0	34.292	2	34.291	2	4.464	4.394	27.181	0.014	0.0	2	30.9	2	2.17	2	27.5	2	0.174	6	0.100	6	198.56	2	998	2	2177.3	2	7.6266	2	2290	2	-9	-9	-9	-9	-9
116	2	1004.8	34.338	2	34.337	2	4.064	3.988	27.261	0.011	0.0	2	33.9	2	2.45	2	39.2	2	0.042	2	0.028	2	172.06	2	1133	2	2214.2	2	7.5802	2	2305	6	-9	-9	-9	-9	-9
115	2	1097.7	34.394	2	34.393	2	3.698	3.617	27.343	0.009	0.0	2	35.7	2	2.60	2	52.6	2	0.006	2	0.006	2	153.24	2	1230	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1200.7	34.464	2	34.463	2	3.499	3.411	27.419	0.007	0.0	2	37.4	2	2.74	2	69.0	2	-0.004	2	-0.002	2	130.00	2	-9	9	-9	9	7.5170	2	-9	9	-9	-9	-9	-9	-9
113	2	1302.8	34.507	2	34.505	2	3.290	3.195	27.474	0.010	0.0	2	37.3	2	2.73	2	79.5	2	-0.003	2	-0.002	2	127.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1403.3	34.533	2	34.532	2	3.003	2.903	27.521	0.008	0.0	2	36.8	2	2.66	2	84.8	2	-0.003	2	-0.003	2	134.89	2	1282	2	-9	9	7.5331	2	-9	9	-9	-9	-9	-9	-9
111	2	1601.6	34.575	2	34.574	2	2.581	2.469	27.593	0.005	0.0	2	36.1	2	2.62	2	92.4	2	-0.006	2	-0.004	2	146.46	2	-9	9	-9	9	7.5527	2	-9	9	-9	-9	-9	-9	-9
110	2	1797.1	34.615	2	34.614	2	2.261	2.138	27.652	0.006	0.0	2	34.9	2	2.54	2	99.8	2	-0.004	2	-0.001	2	155.31	2	-9	9	-9	9	7.5691	2	-9	9	-9	-9	-9	-9	-9
109	2	2000.2	34.643	2	34.645	2	2.050	1.912	27.693	0.004	0.0	2	34.8	2	2.52	2	109.1	2	-0.004	2	0.000	2	157.99	2	1176	2	-9	9	7.5766	2	-9	9	-9	-9	-9	-9	-9
108	2	2201.8	34.658	2	34.656	2	1.896	1.744	27.717	0.004	0.0	2	34.7	2	2.50	2	118.4	2	-9	9	-9	9	158.26	2	-9	9	-9	9	7.5815	2	-9	9	-9	-9	-9	-9	-9
107	2	2499.3	34.668	2	34.666	2	1.830	1.653	27.732	0.003	0.0	2	34.5	2	2.49	2	120.2	2	-0.004	2	0.000	2	160.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2748.6	34.673	2	34.672	2	1.821	1.621	27.739	0.002	0.0	2	34.3	2	2.51	2	118.9	2	-9	9	-9	9	161.91	2	1143	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2854.4	34.675	2	34.674	2	1.822	1.612	27.741	0.002	0.0	2	34.7	2	2.49	2	117.9	2	-9	9	-9	9	162.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3246.6	34.682	2	34.681	2	1.823	1.574	27.750	0.002	0.0	2	34.3	2	2.49	2	118.7	2	-9	9	-9	9	164.85	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3498.9	34.685	2	34.684	2	1.835	1.561	27.753	0.002	0.0	2	34.0	2	2.45	2	120.0	2	-0.002	2	-0.002	2	165.15	2	1133	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3500.8	34.685	2	34.684	2	1.835	1.560	27.753	0.002	0.0	2	33.9	2	2.43	2	120.3	2	-9	9	-9	9	165.67	2	1127	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3647.9	34.686	2	34.685	2	1.840	1.549	27.755	0.003	0.0	2	33.9	2	2.44	2	119.0	2	-0.004	2	-0.003	2	166.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 80 DATE 3/21/94 LATITUDE 29°29.0'S Btm Depth: 3496
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.9	35.238	2	35.239	2	23.221	23.218	24.051	0.038	0.0	2	0.2	2	0.04	2	1.1	2	-9	9	-9	9	214.58	2	330	2	2014.4	2	8.0438	2	2307	2	-9	52.7	5.2	-9	-9
135	2	24.8	35.238	2	35.239	2	23.220	23.215	24.052	0.040	0.0	2	0.1	2	0.10	2	1.0	2	-9	9	-9	9	214.92	2	333	2	2012.0	2	8.0424	2	2309	6	-9	64.5	4.3	-9	-9
134	2	46.5	34.973	2	35.004	3	20.660	20.651	24.567	0.043	0.0	2	0.1	2	0.08	2	0.8	2	-9	9	-9	9	236.92	2	348	2	2015.3	2	8.0226	2	2293	2	-9	55.7	4.4	-9	-9
133	2	72.8	34.849	2	34.848	2	18.560	18.547	25.020	0.050	0.0	2	0.1	2	0.08	2	0.9	2	-9	9	-9	9	248.71	2	350	2	2010.7	2	8.0183	2	2289	2	-9	59.4	4.0	-9	-9
132	2	101.3	34.890	2	34.893	2	17.799	17.781	25.241	0.049	0.0	2	0.1	2	0.07	2	0.8	2	-9	9	-9	9	246.94	2	352	2	2013.1	2	8.0193	2	2293	2	-9	51.5	4.3	-9	-9
131	2	125.7	34.790	2	34.776	2	16.861	16.841	25.391	0.045	0.0	2	0.1	2	0.13	2	0.9	2	-9	9	-9	9	245.09	6	364	2	2015.9	2	8.0044	2	2292	2	-9	48.5	-9	-9	-9
130	2	149.7	34.743	2	34.758	2	16.218	16.194	25.505	0.044	0.0	2	0.2	2	0.17	2	0.7	2	-9	9	-9	9	236.72	2	385	2	2024.0	2	7.9900	2	2287	2	-9	47.8	4.5	-9	-9
129	2	198.4	34.769	2	34.773	2	14.784	14.754	25.847	0.032	0.0	2	4.0	2	0.41	2	0.6	2	-9	9	-9	9	214.27	2	457	2	2058.9	2	7.9210	2	2285	2	-9	38.9	3.5	-9	-9
128	2	249.5	34.667	2	34.671	2	13.222	13.187	26.097	0.024	0.0	2	7.5	2	0.62	2	1.1	2	-9	9	-9	9	208.62	2	526	2	2078.9	2	7.8755	2	-9	5	-9	-9	-9	-9	-9
127	2	304.4	34.474	2	34.481	2	10.774	10.737	26.413	0.020	0.0	2	12.9	2	0.94	2	2.4	2	-9	9	-9	9	212.44	2	606	2	2099.9	2	7.8152	2	2275	2	-9	36.9	3.3	-9	-9
126	2	347.8	34.380	2	34.380	2	9.182	9.143	26.610	0.018	0.0	2	17.6	2	1.24	2	3.8	2	-9	9	-9	9	210.51	2	707	2	2119.2	2	7.7606	2	2272	2	-9	-9	-9	-9	-9
125	2	398.6	34.329	2	34.331	2	7.583	7.543	26.814	0.017	0.0	2	22.9	2	1.68	2	7.7	2	-9	9	-9	9	203.75	2	816	2	2146.0	3	7.6970	2	2274	2	-9	32.0	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	496.8	34.329	2	34.330	2	6.540	6.495	26.959	0.017	0.0	2	24.7	2	1.77	2	9.8	2	-9	9	-9	9	218.28	2	-9	9	2150.2	3	-9	9	2277	2	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	597.3	34.302	2	34.302	2	5.943	5.891	27.015	0.014	0.0	2	23.7	2	1.65	2	9.4	2	-9	9	-9	9	247.26	2	759	3	2136.6	2	7.7324	2	2277	2	-9	40.3	-9	-9	-9
120	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	703.2	34.271	2	34.271	2	5.374	5.315	27.060	0.013	0.0	2	25.3	2	1.75	2	12.4	2	-9	9	-9	9	243.22	2	794	2	2145.4	2	7.7125	2	2286	2	-9	-9	-9	-9	-9
118	2	799.0	34.265	2	34.265	2	4.879	4.815	27.114	0.012	0.0	2	27.7	2	1.92	2	18.2	2	-9	9	-9	9	226.12	2	873	3	2163.3	2	7.6791	2	2284	2	-9	39.9	-9	-9	-9
117	2	900.5	34.295	2	34.294	2	4.375	4.305	27.194	0.011	0.0	2	31.1	2	2.17	2	28.8	2	-9	9	-9	9	198.76	2	989	2	2190.4	2	7.6268	2	2294	2	-9	-9	-9	-9	-9
116	2	997.3	34.352	2	34.351	2	4.006	3.931	27.278	0.011	0.0	2	34.3	2	2.42	2	42.5	2	-9	9	-9	9	-9	1	1151	3	2222.9	2	7.5690	2	2304	6	-9	36.2	-9	-9	-9
115	2	1098.2	34.418	2	34.416	2	3.773	3.691	27.354	0.010	0.0	2	36.5	2	2.56	2	57.7	2	-9	9	-9	9	138.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1198.0	34.475	2	34.474	2	3.587	3.499	27.419	0.010	0.0	2	37.3	2	2.65	2	70.9	2	-9	9	-9	9	123.91	2	-9	9	-9	9	7.5120	2	-9	9	-9	-9	-9	-9	-9
113	2	1302.1	34.509	2	34.508	2	3.333	3.238	27.471	0.008	0.0	2	37.3	2	2.64	2	78.4	2	-9	9	-9	9	125.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1404.2	34.531	2	34.530	2	3.078	2.977	27.513	0.008	0.0	2	36.9	2	2.62	2	82.9	2	-9	9	-9	9	132.05	2	-9	9	-9	9	7.5309	2	-9	9	-9	37.9	-9	-9	-9
111	2	1504.7	34.550	2	34.548	2	2.818	2.712	27.552	0.006	0.0	2	36.4	2	2.57	2	86.8	2	-9	9	-9	9	141.17	2	-9	9	-9	9	7.5434	2	-9	9	-9	-9	-9	-9	-9
110	2	1598.0	34.572	2	34.570	2	2.592	2.481	27.589	0.006	0.0	2	35.6	2	2.50	2	91.9	2	-9	9	-9	9	148.42	2	-9	9	-9	9	7.5568	2	-9	9	-9	-9	-9	-9	-9
109	2	1797.7	34.614	2	34.612	2	2.265	2.142	27.651	0.003	0.0	2	34.7	2	2.43	2	101.7	2	-9	9	-9	9	155.60	2	-9	9	-9	9	7.5698	2	-9	9	-9	-9	-9	-9	-9
108	2	1996.8	34.643	2	34.641	2	2.034	1.898	27.694	0.004	0.0	2	34.6	2	2.42	2	110.7	2	-9	9	-9	9	157.31	2	-9	9	-9	9	7.5777	2	-9	9	-9	39.1	-9	-9	-9
107	2	2247.5	34.659	2	34.658	2	1.883	1.727	27.720	0.003	0.0	2	34.5	2	2.44	2	116.9	2	-9	9	-9	9	158.63	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2505.5	34.666	2	34.664	2	1.837	1.659	27.730	0.003	0.0	2	34.7	2	2.44	2	118.3	2	-9	9	-9	9	159.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2749.4	34.671	2	34.670	2	1.829	1.629	27.737	0.001	0.0	2	34.8	2	2.43	2	118.9	2	-9	9	-9	9	161.33	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2998.0	34.677	2	34.675	2	1.826	1.602	27.744	0.002	0.0	2	34.2	2	2.39	2	119.5	2	-9	9	-9	9	163.05	2	-9	9	-9	9	-9	9	-9	9	-9	41.1	-9	-9	-9
103	2	3248.7	34.682	2	34.681	2	1.830	1.581	27.749	0.001	0.0	2	34.0	2	2.37	2	119.6	2	-9	9	-9	9	163.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3247.5	34.681	2	34.680	2	1.829	1.581	27.749	0.001	0.0	2	34.3	2	2.40	2	118.5	2	-9	9	-9	9	164.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3488.9	34.684	2	34.682	2	1.841	1.568	27.751	0.002	0.0	2	34.3	2	2.41	2	117.0	2	-9	9	-9	9	165.18	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 81 DATE 3/21/94 LATITUDE 29°0.1'S Btm Depth: 3561
CAST 3 LONGITUDE 103°0.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	10.7	35.401	2	35.402	2	23.404	23.401	24.122	0.038	0.0	2	0.1	2	0.11	2	1.1	2	2.028	2	1.108	2	214.67	2	324	2	2019.6	2	8.0475	2	2323	6	2.00	71.0	-9	0.024	0.008
335	2	24.7	35.414	2	35.420	2	23.412	23.407	24.130	0.050	0.0	2	0.0	2	0.10	2	1.0	2	2.052	2	1.073	2	214.53	2	324	2	2019.4	2	8.0474	2	2325	2	-9	59.6	-9	0.027	0.005
334	2	52.0	35.412	2	35.509	3	22.819	22.809	24.301	0.065	0.0	2	0.0	2	0.07	2	1.0	2	2.106	2	1.109	2	218.73	2	324	2	2024.3	2	8.0481	2	2329	2	-9	61.2	-9	0.032	0.012
333	2	75.1	35.088	2	35.090	2	19.426	19.413	24.983	0.055	0.0	2	0.0	2	0.06	2	0.9	2	2.543	2	1.292	2	243.28	2	338	2	2014.1	2	8.0303	2	2301	2	-9	64.3	-9	0.035	0.012
332	2	99.0	35.123	2	35.129	2	18.726	18.709	25.190	0.058	0.0	2	0.0	2	0.06	2	1.0	2	2.539	6	1.328	2	242.17	2	338	2	2012.6	2	8.0304	2	2307	2	-9	57.4	-9	0.050	0.018
331	2	121.6	35.022	2	35.023	2	17.822	17.801	25.337	0.053	0.0	2	0.0	2	0.12	2	1.0	2	2.588	2	1.337	2	240.63	2	351	2	2015.0	2	8.0175	2	2303	2	-9	54.8	-9	0.088	0.042
330	2	150.5	34.888	2	34.889	2	16.959	16.934	25.444	0.047	0.0	2	0.0	2	0.16	2	1.0	2	2.717	6	1.369	6	239.03	2	363	2	2020.0	2	8.0036	2	2298	2	-9	53.9	-9	0.130	0.122
329	2	173.0	34.884	2	34.882	2	16.621	16.593	25.522	0.041	0.0	2	0.1	2	0.18	2	0.9	2	2.665	2	1.358	2	231.72	2	384	2	2028.6	2	7.9862	2	2300	2	-9	52.8	-9	0.155	0.157
328	3	200.6	34.913	2	34.892	2	15.877	15.845	25.716	0.037	0.2	2	1.4	2	0.28	2	1.0	2	2.608	2	1.265	2	220.63	2	-9	9	2048.8	2	-9	9	2295	2	-9	47.2	-9	0.110	0.118
327	2	224.6	34.826	2	34.824	2	14.664	14.631	25.918	0.031	0.0	2	4.8	2	0.46	2	1.4	2	2.503	2	1.197	2	209.30	2	471	2	2035.1	3	7.9109	2	2289	2	-9	42.4	-9	0.061	0.069
326	2	250.4	34.691	2	34.691	2	13.565	13.529	26.046	0.024	0.0	2	7.1	2	0.65	2	1.7	2	2.437	2	1.200	2	207.09	2	509	2	2074.6	2	-9	9	2284	2	-9	44.0	-9	0.020	0.018
325	2	297.9	34.509	2	34.509	2	11.383	11.345	26.330	0.025	0.0	2	12.2	2	0.98	2	2.5	2	2.278	6	1.091	6	208.66	2	596	2	2097.4	2	7.8239	2	2276	2	-9	39.5	-9	0.004	0.004
324	3	345.7	34.398	2	34.402	2	9.469	9.431	26.577	0.023	0.0	2	17.1	2	1.31	2	4.2	2	2.019	2	0.910	2	206.97	2	690	2	2117.4	2	7.7653	2	2273	2	-9	-9	-9	-9	-9
323	2	402.3	34.346	2	34.345	2	7.821	7.781	26.792	0.024	0.0	2	21.7	2	1.57	2	6.7	2	1.719	2	0.771	2	208.32	2	785	2	2140.3	2	7.7132	2	2272	2	-9	-9	-9	-9	-9
322	2	500.7	34.336	2	34.336	2	6.676	6.629	26.946	0.020	0.0	2	22.5	2	1.57	2	7.8	2	1.731	6	0.818	6	235.34	2	764	2	2136.9	2	7.7259	2	-9	5	-9	-9	-9	-9	-9
321	2	601.7	34.305	2	34.306	2	6.017	5.964	27.008	0.018	0.0	2	23.8	2	1.67	2	9.8	2	1.257	2	0.591	2	239.49	2	784	2	2142.3	2	7.7186	2	2281	2	-9	-9	-9	-9	-9
320	2	698.2	34.274	2	34.274	2	5.457	5.399	27.053	0.017	0.0	2	25.6	2	1.78	2	12.1	2	0.925	6	0.456	6	239.05	2	808	2	2147.8	2	7.7070	2	2278	2	-9	-9	-9	-9	-9
319	4	798.8	34.265	2	-9	9	4.986	4.921	27.102	0.017	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
318	2	899.5	34.302	2	34.303	2	4.489	4.418	27.187	0.017	0.0	2	31.3	2	2.14	2	30.5	2	0.171	2	0.081	2	190.81	2	1039	2	2193.2	2	7.6133	2	2294	2	-9	-9	-9	-9	-9
317	2	998.0	34.347	2	34.346	2	4.055	3.980	27.269	0.015	0.0	2	33.8	2	2.33	2	42.3	2	0.039	2	0.020	2	167.96	2	1157	2	2219.5	2	7.5720	2	2303	6	-9	-9	-9	-9	-9
316	2	1101.3	34.425	2	34.425	2	3.767	3.685	27.360	0.014	0.0	2	36.4	2	2.57	2	59.2	2	-0.001	2	0.002	2	136.60	2	1309	2	2253.8	2	7.5261	2	2322	2	-9	-9	-9	-9	-9
315	2	1200.5	34.477	2	34.475	2	3.575	3.487	27.422	0.012	0.0	2	37.4	2	2.65	2	71.8	2	-9	9	-9	9	124.17	2	1361	2	2271.3	2	7.5107	2	2338	2	-9	-9	-9	-9	-9
314	2	1303.6	34.510	2	34.510	2	3.328	3.233	27.472	0.011	0.0	2	37.1	2	2.60	2	80.9	2	0.000	2	-0.001	2	125.85	2	1339	2	2279.2	2	7.5183	2	2346	2	-9	-9	-9	-9	-9
313	2	1402.7	34.533	2	34.532	2	3.042	2.942	27.518	0.010	0.0	2	36.3	2	2.54	2	86.6	2	-9	9	-9	9	134.46	2	1302	2	2279.1	2	7.5325	2	2353	2	-9	-9	-9	-9	-9
312	2	1502.9	34.553	2	34.553	2	2.779	2.674	27.557	0.009	0.0	2	35.6	2	2.48	2	89.5	2	-0.001	2	0.000	2	143.40	2	1246	2	2276.4	2	7.5474	2	2356	2	-9	-9	-9	-9	-9
311	2	1602.9	34.575	2	34.574	2	2.548	2.437	27.596	0.008	0.0	2	35.1	2	2.47	2	92.7	2	-9	9	-9	9	150.95	2	1216	2	2277.3	2	7.5593	2	2359	2	-9	-9	-9	-9	-9
310	2	1797.7	34.615	2	34.614	2	2.241	2.118	27.654	0.005	0.0	2	34.7	2	2.43	2	103.2	2	-0.005	2	-0.002	2	155.61	2	1179	2	2284.6	2	7.5720	2	2377	2	-9	-9	-9	-9	-9
309	2	1999.3	34.638	2	34.638	2	2.055	1.918	27.688	0.005	0.0	2	34.7	2	2.44	2	112.8	2	-9	9	-9	9	156.35	2	1175	2	2292.4	2	7.5760	2	2385	2	-9	-9	-9	-9	-9
308	2	2250.9	34.657	2	34.657	2	1.898	1.742	27.717	0.004	0.0	2	34.1	2	2.38	2	120.8	2	-0.002	2	-0.002	2	157.83	2	1156	2	2297.3	2	7.5828	2	2386	2	-9	-9	-9	-9	-9
307	2	2502.8	34.665	2	34.665	2	1.844	1.667	27.729	0.004	0.0	2	34.3	2	2.37	2	123.6	2	-9	9	-9	9	159.29	2	1150	2	2299.8	2	7.5862	2	2390	2	-9	-9	-9	-9	-9
306	2	2751.1	34.670	2	34.670	2	1.836	1.636	27.735	0.003	0.0	2	34.2	2	2.40	2	121.1	2	-9	9	-9	9	160.68	2	1137	2	2296.8	2	7.5880	2	2388	2	-9	-9	-9	-9	-9
305	2	2992.9	34.676	2	34.675	2	1.836	1.612	27.742	0.003	0.0	2	34.1	2	2.39	2	120.0	2	-9	1	-9	1	162.67	2	1135	2	2298.0	2	7.5897	2	2392	2	-9	-9	-9	-9	-9
304	2	3249.6	34.679	2	34.678	2	1.844	1.595	27.746	0.002	0.0	2	34.0	2	2.39	2	120.6	2	-9	9	-9	9	163.74	6	-9	9	2296.9	2	7.5916	2	2391	2	-9	-9	-9	-9	-9
303	2	3496.1	34.681	2	34.681	2	1.859	1.584	27.748	0.003	0.0	2	33.8	2	2.34	2	121.8	2	0.003	2	-0.002	2	163.90	2	-9	9	2296.2	2	7.5926	2	2388	2	-9	-9	-9	-9	-9
302	2	3497.5	34.681	2	34.681	2	1.859	1.584	27.748	0.003	0.0	2	33.8	2	2.32	2	122.2	2	-9	9	-9	9	165.20	2	1106	2	2295.4	2	7.5930	2	-9	5	-9	-9	-9	-9	-9
301	2	3566.4	34.682	2	34.682	2	1.859	1.576	27.750	0.003	0.0	2	33.7	2	2.37	2	120.3	2	0.000	6	-0.002	6	164.62	2	1119	3	2296.9	2	7.5924	2	2391	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 82 DATE 3/22/94 LATITUDE 28°29.7'S Btm Depth: 3278
CAST 1 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.7	35.592	2	35.592	2	23.561	23.559	24.220	0.049	0.0	2	0.1	2	0.09	2	1.9	2	-9	9	-9	9	213.77	2	-9	9	2028.0	2	-9	9	2338	6	-9	-9	-9	-9	-9
135	2	11.0	35.591	2	35.595	2	23.554	23.552	24.221	0.049	0.0	2	0.0	2	0.10	2	2.0	2	-9	9	-9	9	-9	1	-9	9	2027.4	2	-9	9	2336	2	-9	-9	-9	-9	-9
134	2	10.4	35.599	2	35.600	2	23.575	23.573	24.221	0.049	0.0	2	0.1	2	0.11	2	2.1	2	-9	9	-9	9	212.92	2	322	2	2025.7	2	-9	9	2336	2	-9	-9	-9	-9	-9
133	2	9.8	35.597	2	35.602	2	23.574	23.572	24.220	0.049	0.0	2	0.0	2	0.08	2	1.9	2	2.011	2	0.588	4	213.21	2	320	2	2025.1	2	8.0518	2	2336	2	-9	-9	-9	-9	-9
132	2	23.7	35.700	2	35.701	2	23.738	23.733	24.251	0.052	0.0	2	0.0	2	0.06	2	1.9	2	2.023	2	0.920	2	213.31	2	315	2	2027.4	2	8.0619	2	2343	2	-9	-9	-9	-9	-9
131	2	49.7	35.565	2	35.573	2	22.217	22.208	24.589	0.064	0.0	2	0.0	2	0.05	2	2.0	2	2.317	2	1.194	2	230.20	2	317	2	2021.1	2	8.0565	2	2336	2	-9	-9	-9	-9	-9
130	2	76.2	35.444	2	35.445	2	20.462	20.448	24.981	0.058	0.0	2	0.1	2	0.09	2	1.9	2	2.423	2	1.219	2	238.06	2	319	2	2017.8	2	8.0535	2	2326	2	-9	-9	-9	-9	-9
129	2	101.1	35.414	2	35.418	2	19.699	19.681	25.162	0.053	0.0	2	0.0	2	0.11	2	1.9	2	2.426	2	1.255	2	234.96	2	325	2	2020.9	2	8.0472	2	2325	2	-9	-9	-9	-9	-9
128	3	126.7	35.395	2	35.399	2	19.230	19.207	25.270	0.045	0.0	2	0.0	2	0.09	2	1.7	2	-9	9	-9	9	231.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	149.6	35.259	2	35.262	2	18.542	18.516	25.342	0.041	0.0	2	0.0	2	0.09	2	1.8	2	-9	9	-9	9	230.83	2	342	2	2024.3	2	8.0259	2	2317	2	-9	-9	-9	-9	-9
126	2	201.8	35.057	2	35.061	2	17.052	17.019	25.554	0.036	0.1	2	0.2	2	0.16	2	1.8	2	2.548	2	1.288	2	222.81	2	373	2	2036.4	2	7.9898	2	2304	2	-9	-9	-9	-9	-9
125	2	248.7	34.909	2	34.913	2	15.461	15.422	25.808	0.024	0.0	2	3.4	2	0.43	2	2.2	2	-9	9	-9	9	208.26	2	441	2	2058.9	2	7.9306	2	2294	2	-9	-9	-9	-9	-9
124	2	295.7	34.661	2	34.661	2	13.013	12.972	26.136	0.024	0.0	2	8.4	2	0.76	2	2.8	2	2.308	6	1.096	6	205.78	2	528	2	2081.5	2	7.8667	2	2282	2	-9	-9	-9	-9	-9
123	2	352.9	34.450	2	34.455	2	10.480	10.438	26.447	0.022	0.0	2	14.1	2	1.12	2	4.0	2	-9	9	-9	9	205.93	2	627	2	2105.2	2	7.7975	2	2273	2	-9	-9	-9	-9	-9
122	2	398.9	34.372	2	34.372	2	8.850	8.807	26.657	0.021	0.0	2	18.5	2	1.39	2	6.0	2	1.905	2	1.170	2	206.91	2	726	2	2125.8	2	7.7463	2	2269	2	-9	-9	-9	-9	-9
121	2	500.4	34.334	2	34.335	2	6.782	6.735	26.930	0.020	0.0	2	22.6	2	1.60	2	8.8	2	-9	9	-9	9	228.55	2	771	2	2139.6	2	7.7173	2	2278	2	-9	-9	-9	-9	-9
120	2	596.1	34.309	2	34.310	2	6.064	6.011	27.005	0.017	0.0	2	23.1	2	1.63	2	10.1	2	1.444	2	0.675	2	246.20	2	752	2	2135.7	2	7.7319	2	2273	2	-9	-9	-9	-9	-9
119	2	698.2	34.279	2	-9	5	5.487	5.428	27.054	0.017	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	5	-9	-9	-9	-9	-9
118	2	804.0	34.275	2	34.277	2	4.957	4.892	27.113	0.017	0.0	2	28.5	2	2.00	2	20.0	2	0.400	2	0.179	2	214.06	2	900	2	2169.3	2	7.6579	2	2278	2	-9	-9	-9	-9	-9
117	2	901.4	34.327	2	34.327	2	4.561	4.490	27.199	0.016	0.0	2	32.7	2	2.32	2	33.5	2	-9	9	-9	9	172.63	2	1087	2	2205.6	2	7.5872	2	2296	2	-9	-9	-9	-9	-9
116	2	1005.0	34.389	2	34.390	2	4.155	4.078	27.292	0.016	0.0	2	35.1	2	2.52	2	49.4	2	0.015	2	0.010	2	143.79	2	1246	2	2237.4	2	7.5383	2	2309	6	-9	-9	-9	-9	-9
115	2	1099.6	34.433	2	34.432	2	3.809	3.726	27.363	0.015	0.0	2	36.5	2	2.60	2	61.4	2	-9	9	-9	9	132.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1201.6	34.480	2	34.479	2	3.613	3.524	27.420	0.012	0.0	2	37.2	2	2.66	2	72.9	2	-9	9	-9	9	122.96	2	-9	9	-9	9	7.5122	2	-9	9	-9	-9	-9	-9	-9
113	2	1297.5	34.514	2	34.512	2	3.345	3.251	27.473	0.011	0.0	2	36.8	2	2.65	2	80.4	2	-9	9	-9	9	126.24	2	-9	9	-9	9	7.5200	2	-9	9	-9	-9	-9	-9	-9
112	3	1397.5	34.535	2	-9	9	3.070	2.969	27.517	0.010	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1506.3	34.557	2	34.556	2	2.770	2.665	27.562	0.010	0.0	2	35.4	2	2.55	2	89.7	2	-9	9	-9	9	143.48	2	-9	9	-9	9	7.5480	2	-9	9	-9	-9	-9	-9	-9
110	2	1602.7	34.575	2	34.575	2	2.567	2.456	27.594	0.008	0.0	2	34.6	2	2.48	2	94.0	2	-9	9	-9	9	149.67	2	-9	9	-9	9	7.5591	2	-9	9	-9	-9	-9	-9	-9
109	2	1750.3	34.601	2	34.602	2	2.346	2.226	27.634	0.008	0.0	2	34.4	2	2.43	2	101.3	2	-9	9	-9	9	154.20	2	-9	9	-9	9	7.5689	2	-9	9	-9	-9	-9	-9	-9
108	2	1751.1	34.601	2	34.601	2	2.345	2.225	27.634	0.008	0.0	2	34.6	2	2.44	2	100.8	2	-9	9	-9	9	153.90	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2248.8	34.656	2	34.655	2	1.899	1.743	27.716	0.006	0.0	2	34.2	2	2.44	2	117.9	2	-9	9	-9	9	157.20	2	-9	9	-9	9	7.5835	2	-9	9	-9	-9	-9	-9	-9
106	2	2499.1	34.664	2	34.663	2	1.858	1.680	27.727	0.005	0.0	2	34.1	2	2.44	2	119.4	2	-9	9	-9	9	158.63	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2747.2	34.668	2	34.667	2	1.849	1.649	27.733	0.004	0.0	2	34.1	2	2.43	2	120.5	2	-9	9	-9	9	159.98	2	-9	9	-9	9	7.5883	2	-9	9	-9	-9	-9	-9	-9
104	2	2997.4	34.675	2	34.674	2	1.842	1.618	27.741	0.004	0.0	2	33.9	2	2.38	2	121.0	2	-9	9	-9	9	162.15	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3248.8	34.680	2	34.681	2	1.845	1.595	27.746	0.004	0.0	2	33.5	2	2.38	2	120.6	2	-9	9	-9	9	163.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3250.0	34.680	2	34.679	2	1.844	1.595	27.746	0.004	0.0	2	33.9	2	2.39	2	119.3	2	-9	9	-9	9	163.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3341.5	34.680	2	34.682	2	1.852	1.593	27.747	0.003	0.0	2	33.9	2	2.41	2	118.4	2	-9	9	-9	9	163.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 83 DATE 3/22/94 LATITUDE 28°0.0'S Btm Depth: 3352
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 umol/kg	F*	NO3 umol/kg	F*	PO4 umol/kg	F*	Si(OH)4 umol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 umol/kg	F*	fCO2 @20°C uatm	F*	DIC umol/kg	F*	pH	F*	TAlk umol/kg	F*	δ13C per mil	TOC umol/L	TON umol/L	Chl-a ug/L	Phaeo ug/L
136	2	9.6	35.790	2	35.788	2	23.713	23.711	24.325	0.041	0.0	2	1.0	2	0.12	2	1.4	2	2.031	2	1.073	2	213.25	2	324	2	2040.9	3	8.0574	2	2352	6	1.50	-9	-9	-9	-9
135	2	24.8	35.788	2	35.788	2	23.732	23.727	24.319	0.043	0.0	2	0.1	2	0.11	2	1.2	2	2.029	2	1.067	2	213.12	6	-9	9	-9	9	8.0539	2	-9	9	1.50	-9	-9	-9	-9
134	2	51.4	35.793	2	35.794	2	23.253	23.243	24.465	0.051	0.0	2	0.0	2	0.11	2	1.2	2	2.141	2	1.121	2	220.13	2	327	2	-9	9	8.0509	2	-9	9	1.50	-9	-9	-9	-9
133	2	74.5	35.520	2	35.520	2	20.569	20.555	25.011	0.053	0.0	2	0.0	2	0.11	2	1.5	2	2.416	2	1.245	2	236.37	6	-9	9	-9	9	8.0435	2	-9	9	1.60	-9	-9	-9	-9
132	2	99.8	35.529	2	35.526	2	20.056	20.037	25.155	0.050	0.0	2	0.0	2	0.10	2	1.1	2	2.404	6	1.253	6	234.35	2	335	2	-9	9	8.0413	2	-9	9	1.50	-9	-9	-9	-9
131	2	126.5	35.493	2	35.489	2	19.588	19.564	25.252	0.039	0.0	2	0.0	2	0.14	2	1.2	2	2.715	2	1.487	2	231.76	2	-9	9	-9	9	8.0360	2	-9	9	-9	-9	-9	-9	-9
130	2	151.2	35.446	2	35.448	2	19.248	19.221	25.306	0.036	0.0	2	0.0	2	0.17	2	1.1	2	2.443	2	1.273	2	229.74	2	348	2	-9	9	-9	9	-9	9	1.50	-9	-9	-9	-9
129	2	174.9	35.401	2	35.399	2	18.980	18.949	25.341	0.036	0.0	2	0.0	2	0.16	2	1.1	2	2.468	2	1.277	2	226.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	203.2	35.215	2	35.221	2	18.007	17.972	25.444	0.031	0.0	2	0.1	2	0.17	2	1.1	2	2.525	2	1.280	2	224.09	2	366	2	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
127	2	222.2	35.121	2	35.123	2	17.357	17.319	25.531	0.029	0.1	2	0.8	2	0.25	2	1.2	2	2.538	6	1.285	6	217.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	249.4	34.868	2	34.865	2	15.826	15.786	25.695	0.025	0.0	2	3.1	2	0.41	2	1.3	2	2.524	6	1.250	6	213.18	2	441	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	299.3	34.680	2	-9	5	14.003	13.960	25.948	0.022	0.0	2	6.8	2	0.66	2	1.9	2	2.164	2	1.027	2	205.87	2	501	2	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
124	2	351.0	34.481	2	34.491	2	11.330	11.286	26.319	0.021	0.0	2	12.7	2	1.07	2	3.5	2	1.930	2	0.921	2	198.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.4	34.381	2	34.382	2	9.335	9.290	26.587	0.020	0.0	2	18.4	2	1.42	2	5.6	2	1.166	2	0.557	2	197.55	2	732	2	-9	9	-9	9	-9	9	1.30	-9	-9	-9	-9
122	2	501.8	34.343	2	34.342	2	6.887	6.840	26.923	0.019	0.0	2	26.6	2	1.91	2	12.1	2	0.893	2	0.452	2	186.36	2	-9	9	-9	9	-9	9	-9	9	1.00	-9	-9	-9	-9
121	2	603.0	34.314	2	34.316	2	6.053	6.000	27.011	0.017	0.0	2	26.8	2	1.90	2	13.4	2	0.892	2	0.459	2	207.61	2	900	2	-9	9	-9	9	-9	9	1.20	-9	-9	-9	-9
120	2	702.9	34.276	2	34.278	2	5.403	5.344	27.061	0.016	0.0	2	26.9	2	1.88	2	14.3	2	0.812	2	0.413	2	226.52	2	-9	9	-9	9	-9	9	-9	9	1.30	-9	-9	-9	-9
119	2	801.6	34.294	2	34.293	2	5.052	4.986	27.117	0.014	0.0	2	29.8	2	2.19	2	21.0	2	0.377	2	0.205	2	200.58	2	966	2	-9	9	-9	9	-9	9	1.10	-9	-9	-9	-9
118	2	901.9	34.323	2	34.322	2	4.637	4.566	27.187	0.015	0.0	2	32.9	2	2.44	2	30.9	2	0.142	6	0.077	6	174.59	2	-9	9	-9	9	-9	9	-9	9	0.90	-9	-9	-9	-9
117	2	995.9	34.376	2	34.380	3	4.221	4.145	27.274	0.012	0.0	2	35.6	2	2.64	2	45.2	2	0.038	2	0.021	2	147.99	2	1236	2	-9	9	-9	9	-9	9	0.60	-9	-9	-9	-9
116	2	1099.6	34.433	2	34.432	2	3.831	3.748	27.361	0.011	0.0	2	37.2	2	2.74	2	60.3	2	0.005	2	0.002	2	131.91	2	-9	9	-9	9	-9	9	-9	9	0.50	-9	-9	-9	-9
115	2	1201.3	34.487	2	34.488	2	3.549	3.460	27.432	0.011	0.0	2	37.9	2	2.80	2	73.8	2	-0.007	2	-0.002	2	121.81	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
114	2	1302.0	34.515	2	34.517	2	3.354	3.259	27.474	0.010	0.0	2	37.6	2	2.77	2	79.9	2	-0.004	2	-0.002	2	123.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1401.9	34.540	2	-9	5	2.995	2.895	27.527	0.008	-9	1	-9	1	-9	1	-9	1	-0.005	2	-0.002	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1501.2	34.560	2	34.559	2	2.744	2.639	27.566	0.008	0.0	2	35.9	2	2.63	2	89.3	2	-9	1	-9	1	143.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1600.7	34.580	2	34.579	2	2.510	2.400	27.603	0.006	0.0	2	35.3	2	2.60	2	92.5	2	-0.003	2	-0.002	2	151.00	2	-9	9	-9	9	-9	9	-9	9	0.40	-9	-9	-9	-9
110	2	1699.7	34.599	2	34.606	3	2.351	2.235	27.632	0.006	0.0	2	35.4	2	2.61	2	97.0	2	-9	9	-9	9	153.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1798.7	34.616	2	34.616	2	2.224	2.101	27.656	0.006	0.0	2	35.1	2	2.60	2	103.1	2	-0.007	2	-0.002	2	154.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2002.0	34.639	2	34.639	2	2.038	1.901	27.690	0.005	0.0	2	35.0	2	2.59	2	112.3	2	-9	9	-9	9	155.55	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
107	2	2248.3	34.655	2	34.655	2	1.912	1.756	27.714	0.004	0.0	2	34.7	2	2.57	2	118.9	2	-0.008	2	-0.002	2	156.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2498.2	34.664	2	34.663	2	1.859	1.682	27.727	0.004	0.0	2	34.8	2	2.53	2	120.6	2	-9	9	-9	9	158.11	2	-9	9	-9	9	-9	9	-9	9	0.20	-9	-9	-9	-9
105	2	2750.7	34.668	2	34.673	3	1.849	1.648	27.733	0.003	0.0	2	34.7	2	2.51	2	119.4	2	-0.004	2	-0.002	2	159.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3000.0	34.674	2	34.674	2	1.847	1.622	27.740	0.003	0.0	2	34.4	2	2.49	2	118.0	2	-9	9	-9	9	161.35	6	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
103	2	3248.5	34.680	2	34.680	2	1.845	1.596	27.746	0.003	0.0	2	34.3	2	2.48	2	116.7	2	-0.008	2	-0.002	2	162.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3245.3	34.680	2	34.679	2	1.845	1.596	27.746	0.003	0.0	2	34.4	2	2.52	2	116.3	2	-9	9	-9	9	163.25	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9
101	2	3382.0	34.681	2	34.680	2	1.854	1.591	27.747	0.003	0.0	2	34.4	2	2.54	2	115.8	2	-9	9	-9	9	163.48	2	-9	9	-9	9	-9	9	-9	9	0.30	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 84 DATE 3/22/94 LATITUDE 27°30.1'S Btm Depth: 3089
CAST 1 LONGITUDE 103°1.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.4	35.797	2	35.797	2	23.739	23.737	24.323	0.041	0.0	2	0.1	2	0.14	2	1.3	2	2.026	2	1.086	2	213.44	2	324	2	2042.5	2	8.0505	2	2353	2	-9	-9	-9	0.024	0.005
135	2	10.6	35.797	2	35.798	2	23.741	23.739	24.322	0.041	0.0	2	0.0	2	0.11	2	1.1	2	-9	9	-9	9	213.33	2	327	2	2040.4	2	8.0499	2	2349	2	-9	75.5	4.2	-9	-9
134	2	23.8	35.796	2	35.810	2	23.736	23.731	24.324	0.042	0.0	2	0.0	2	0.11	2	1.1	2	2.023	2	1.052	2	213.43	2	325	2	2040.5	2	8.0506	2	2356	2	-9	75.9	4.4	0.025	0.005
133	2	50.6	35.697	2	35.713	2	22.743	22.732	24.540	0.053	0.0	2	0.0	2	0.10	2	1.1	2	-9	9	-9	9	223.72	2	326	2	2035.0	2	8.0475	2	2344	2	-9	71.4	4.2	0.034	0.009
132	2	74.9	35.499	2	35.507	2	20.501	20.487	25.013	0.052	0.0	2	0.0	2	0.08	2	1.1	2	2.408	2	1.250	2	236.24	2	326	2	2022.8	2	8.0489	2	2332	2	-9	73.4	4.2	0.043	0.016
131	2	100.3	35.504	2	35.501	2	19.993	19.975	25.153	0.048	0.0	2	0.0	2	0.09	2	1.1	2	-9	9	-9	9	233.71	2	328	2	2025.8	2	8.0446	2	2330	2	-9	74.9	4.3	0.064	0.018
130	2	125.2	35.464	2	35.466	2	19.525	19.502	25.247	0.044	0.0	2	0.0	2	0.12	2	1.2	2	2.443	6	1.256	6	232.73	2	343	2	2034.2	2	8.0352	2	2331	2	-9	74.5	4.3	0.091	0.041
129	2	146.5	35.463	2	35.468	2	19.335	19.309	25.296	0.039	0.0	2	0.0	2	0.15	2	1.2	2	-9	9	-9	9	230.17	2	346	2	2038.7	2	8.0253	2	2329	2	-9	65.5	-9	0.120	0.058
128	2	174.4	35.433	2	35.436	2	19.145	19.114	25.323	0.037	0.0	2	0.0	2	0.18	2	1.1	2	-9	1	-9	1	228.63	2	354	2	2042.0	2	8.0208	2	2325	2	-9	-9	-9	0.138	0.092
127	2	214.7	35.179	2	35.212	3	17.917	17.880	25.439	0.033	0.0	2	0.1	2	0.14	2	1.0	2	-9	9	-9	9	226.02	2	363	2	2034.2	2	8.0093	2	2315	2	-9	62.5	-9	0.122	0.120
126	2	250.2	35.025	2	35.033	2	16.498	16.458	25.661	0.027	0.0	2	1.8	2	0.31	2	1.2	2	2.478	6	1.256	6	211.13	2	426	2	2053.9	3	7.9578	2	2278	2	-9	-9	-9	0.062	0.067
125	2	300.8	34.635	2	34.634	2	13.782	13.739	25.960	0.021	0.0	2	7.1	2	0.65	2	1.8	2	-9	9	-9	9	205.59	2	509	2	2074.3	2	7.8838	2	2279	2	-9	49.8	3.8	0.011	0.009
124	2	349.5	34.577	2	34.582	2	12.092	12.046	26.252	0.021	0.0	2	10.7	2	0.89	2	2.8	2	2.205	2	1.072	2	201.44	2	585	2	2092.1	2	7.8349	2	2277	2	-9	-9	-9	-9	-9
123	2	402.2	34.345	2	34.352	2	9.357	9.312	26.555	0.021	0.0	2	18.4	2	1.46	2	5.8	2	2.101	2	0.995	2	192.22	2	750	2	2128.2	2	7.7345	2	2270	2	-9	48.6	-9	-9	-9
122	2	449.2	34.335	2	34.339	2	8.082	8.036	26.746	0.021	0.0	2	22.7	2	1.70	2	8.2	2	-9	1	-9	1	187.08	2	857	2	2149.2	2	7.6822	2	2269	2	-9	-9	-9	-9	-9
121	2	501.9	34.334	2	34.337	2	7.001	6.953	26.901	0.019	0.0	2	25.4	2	1.83	2	10.6	2	1.429	2	0.686	2	194.12	2	904	2	2158.2	2	7.6619	2	2280	2	-9	-9	-9	-9	-9
120	2	549.3	34.324	2	34.324	2	6.388	6.338	26.975	0.019	0.0	2	26.2	2	1.85	2	11.7	2	-9	1	-9	1	207.32	2	879	2	2160.8	2	7.6700	2	2276	2	-9	-9	-9	-9	-9
119	2	598.8	34.304	2	34.305	2	5.969	5.916	27.013	0.017	0.0	2	25.8	2	1.81	2	12.0	2	1.108	2	0.540	2	221.99	2	849	2	2154.3	2	7.6875	2	2278	2	-9	41.7	-9	-9	-9
118	2	700.5	34.281	2	34.284	2	5.502	5.443	27.053	0.015	0.0	2	26.6	2	1.88	2	14.0	2	0.808	2	0.420	2	223.49	2	859	2	2157.7	2	7.6807	2	2281	2	-9	-9	-9	-9	-9
117	2	801.0	34.279	2	34.278	2	4.895	4.831	27.123	0.013	0.0	2	29.3	2	2.07	2	20.7	2	0.407	2	0.218	2	209.45	2	938	2	2174.8	2	7.6503	2	2286	2	-9	41.6	-9	-9	-9
116	2	899.6	34.311	2	34.312	2	4.310	4.241	27.213	0.012	0.0	2	32.5	2	2.26	2	32.9	2	0.114	2	0.063	2	183.87	2	1056	2	2203.7	2	7.6010	2	-9	5	-9	-9	-9	-9	-9
115	2	1002.2	34.384	2	34.384	2	3.903	3.828	27.314	0.011	0.0	2	35.6	2	2.49	2	49.8	2	0.009	2	0.010	2	150.17	2	1225	2	2238.8	2	7.5459	2	2310	6	-9	41.3	2.6	-9	-9
114	2	1100.5	34.465	2	34.467	2	3.790	3.708	27.390	0.010	0.0	2	37.7	2	2.66	2	66.9	2	-9	9	-9	9	122.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1202.1	34.497	2	34.498	2	3.534	3.446	27.442	0.009	0.0	2	37.5	2	2.63	2	75.0	2	-0.005	2	-0.001	2	124.70	2	-9	9	-9	9	7.5175	2	-9	9	-9	-9	-9	-9	-9
112	2	1301.1	34.524	2	34.530	3	3.233	3.139	27.493	0.009	0.0	2	37.0	2	2.61	2	81.8	2	-9	9	-9	9	130.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1399.7	34.540	2	34.541	2	2.959	2.860	27.531	0.007	0.0	2	36.3	2	2.53	2	85.3	2	-9	9	-9	9	139.11	2	-9	9	-9	9	7.5425	2	-9	9	-9	37.9	-9	-9	-9
110	2	1499.4	34.560	2	34.565	3	2.703	2.599	27.570	0.007	0.0	2	35.7	2	2.51	2	89.4	2	-9	9	-9	9	145.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1599.7	34.583	2	34.583	2	2.479	2.369	27.608	0.006	0.0	2	35.2	2	2.47	2	94.1	2	-0.006	2	0.000	2	151.87	2	-9	9	-9	9	7.5622	2	-9	9	-9	-9	-9	-9	-9
108	2	1802.3	34.617	2	34.625	3	2.215	2.092	27.657	0.005	0.0	2	35.1	2	2.47	2	103.7	2	-9	9	-9	9	154.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2002.1	34.641	2	34.640	2	2.016	1.879	27.694	0.004	0.0	2	35.0	2	2.47	2	113.2	2	-9	9	-9	9	155.20	2	-9	9	-9	9	-9	9	-9	9	-9	37.7	-9	-9	-9
106	2	2247.2	34.656	2	34.654	2	1.911	1.755	27.715	0.004	0.0	2	34.9	2	2.44	2	119.5	2	-9	9	-9	9	156.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2498.1	34.662	2	34.662	2	1.876	1.699	27.725	0.003	0.0	2	34.8	2	2.42	2	121.8	2	-9	9	-9	9	157.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2749.6	34.665	2	34.665	2	1.874	1.673	27.729	0.003	0.0	2	34.6	2	2.42	2	121.6	2	-9	9	-9	9	158.34	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	2998.8	34.671	2	34.673	2	1.865	1.640	27.736	0.003	0.0	2	34.4	2	2.41	2	120.7	2	-9	9	-9	9	159.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2998.9	34.671	2	34.671	2	1.865	1.640	27.736	0.003	0.0	2	34.4	2	2.41	2	120.0	2	-9	9	-9	9	160.90	6	-9	9	-9	9	-9	9	-9	9	-9	40.3	2.5	-9	-9
101	2	3071.2	34.673	2	34.672	2	1.863	1.631	27.738	0.003	0.0	2	34.5	2	2.40	2	119.2	2	-9	9	-9	9	160.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 85 DATE 3/22/94 LATITUDE 26°55.2'S Btm Depth: 3129
CAST 1 LONGITUDE 103°0.6'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.9	35.979	2	35.981	2	24.358	24.356	24.277	0.035	-9	1	-9	1	-9	1	-9	1	1.983	2	1.061	2	211.80	2	314	2	2039.9	2	8.0605	2	-9	5	1.50	-9	-9	-9	-9
135	2	25.4	35.976	2	35.974	2	24.269	24.264	24.301	0.047	0.0	2	0.0	2	0.13	2	2.4	2	1.984	2	1.054	2	211.30	2	314	2	2038.1	2	8.0615	2	-9	5	-9	-9	-9	-9	-9
134	2	51.5	35.979	2	35.981	2	24.259	24.248	24.309	0.053	0.0	2	0.0	2	0.12	2	1.1	2	1.985	2	1.061	2	211.24	2	316	2	2040.9	2	8.0612	2	-9	5	-9	-9	-9	-9	-9
133	2	76.5	35.591	2	35.601	2	21.322	21.307	24.860	0.048	0.0	2	0.1	2	0.13	2	1.0	2	2.372	2	1.235	2	234.88	2	327	2	2030.3	2	8.0484	2	-9	5	-9	-9	-9	-9	-9
132	3	101.2	35.571	2	35.569	2	20.602	20.583	25.041	0.049	0.0	2	0.0	2	0.13	2	1.1	2	-9	1	-9	1	236.28	2	-9	9	2033.2	2	-9	9	-9	5	-9	-9	-9	-9	-9
131	2	123.9	35.559	2	35.557	2	20.130	20.107	25.160	0.045	0.0	2	0.2	2	0.17	2	1.0	2	2.392	6	1.240	6	234.02	2	-9	9	2036.0	2	8.0402	2	-9	5	-9	-9	-9	-9	-9
130	2	152.5	35.529	2	35.535	2	19.655	19.627	25.264	0.041	0.0	2	0.0	2	0.16	2	0.8	2	2.439	2	1.238	2	230.66	2	340	2	2039.2	2	8.0323	2	-9	5	-9	-9	-9	-9	-9
129	2	176.3	35.451	2	35.450	2	19.208	19.176	25.320	0.038	0.0	2	0.2	2	0.16	2	0.9	2	2.437	2	1.248	2	227.16	2	-9	9	2039.8	2	8.0228	2	-9	5	-9	-9	-9	-9	-9
128	2	201.6	35.315	2	35.337	2	18.451	18.415	25.410	0.033	0.0	2	0.1	2	0.17	2	0.9	2	2.487	2	1.289	2	223.43	2	366	2	2043.7	2	8.0056	2	-9	5	-9	-9	-9	-9	-9
127	2	251.4	34.924	2	34.938	2	16.042	16.002	25.689	0.027	0.0	2	2.5	2	0.37	2	1.1	2	2.554	2	1.276	2	212.22	2	-9	9	2056.8	2	7.9472	2	-9	5	-9	-9	-9	-9	-9
126	2	299.7	34.627	2	34.631	2	13.686	13.643	25.973	0.024	0.0	2	7.0	2	0.71	2	1.7	2	2.501	2	1.214	2	204.96	2	509	2	2075.1	2	7.8802	2	-9	5	-9	-9	-9	-9	-9
125	2	350.8	34.427	2	34.428	2	10.785	10.742	26.375	0.021	0.0	2	15.5	2	1.29	2	4.8	2	2.018	6	0.970	6	185.75	2	-9	9	2118.5	3	7.7656	2	-9	5	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.6	34.382	2	34.381	2	8.823	8.779	26.669	0.020	0.0	2	22.9	2	1.80	2	10.0	2	1.375	2	0.657	2	160.42	2	922	2	2160.2	3	7.6533	2	-9	5	-9	-9	-9	-9	-9
122	2	451.6	34.361	2	34.361	2	7.627	7.582	26.833	0.021	0.0	2	26.2	2	1.98	2	12.3	2	1.138	6	0.541	6	161.58	2	-9	9	2174.6	3	7.6178	2	-9	5	-9	-9	-9	-9	-9
121	2	501.7	34.349	2	34.350	2	6.886	6.839	26.928	0.021	0.0	2	27.7	2	2.02	2	13.3	2	0.973	2	0.466	2	174.15	2	994	2	2176.3	3	7.6208	2	-9	5	-9	-9	-9	-9	-9
120	2	598.5	34.309	2	-9	5	6.008	5.956	27.013	0.019	0.0	2	27.5	2	1.96	2	13.0	2	0.974	6	0.474	6	212.87	2	881	2	2159.2	2	-9	9	-9	5	-9	-9	-9	-9	-9
119	2	696.3	34.271	2	34.273	2	5.289	5.231	27.070	0.017	0.0	2	27.2	2	1.93	2	14.5	2	0.763	2	0.388	2	229.63	2	855	2	2155.7	2	7.6860	2	-9	5	-9	-9	-9	-9	-9
118	2	795.9	34.282	2	34.284	2	4.841	4.777	27.131	0.017	0.0	2	29.7	2	2.10	2	22.3	2	0.346	6	0.181	6	206.20	2	956	2	2177.2	2	7.6429	2	-9	5	-9	-9	-9	-9	-9
117	2	896.6	34.337	2	34.337	2	4.457	4.387	27.218	0.015	0.0	2	33.3	2	2.37	2	36.5	2	-9	9	-9	9	169.34	2	1130	2	2212.6	2	7.5805	2	-9	5	-9	-9	-9	-9	-9
116	2	996.3	34.405	2	34.406	2	4.069	3.993	27.314	0.014	0.0	2	36.0	2	2.58	2	53.3	2	0.014	2	0.011	2	140.62	2	1272	2	2246.0	2	7.5344	2	-9	5	-9	-9	-9	-9	-9
115	2	1097.1	34.464	2	34.464	2	3.739	3.658	27.394	0.012	0.0	2	36.7	2	2.63	2	67.8	2	-9	9	-9	9	128.20	2	1330	2	2263.4	2	7.5196	2	-9	5	-9	-9	-9	-9	-9
114	2	1198.9	34.496	2	34.495	2	3.517	3.429	27.442	0.010	0.0	2	37.0	2	2.62	2	75.3	2	-9	9	-9	9	127.62	2	-9	9	2271.4	2	7.5223	2	-9	5	-9	-9	-9	-9	-9
113	2	1300.3	34.520	2	34.522	2	3.273	3.179	27.485	0.010	0.0	2	36.8	2	2.63	2	81.1	2	0.002	2	-0.001	2	131.08	6	-9	9	2274.4	2	7.5289	2	-9	5	-9	-9	-9	-9	-9
112	3	1399.0	34.542	2	34.545	2	2.967	2.868	27.532	0.008	0.0	2	36.3	2	2.58	2	85.8	2	-9	9	-9	9	138.56	2	-9	9	-9	9	-9	9	-9	5	-9	-9	-9	-9	-9
111	2	1495.9	34.561	2	34.560	2	2.743	2.639	27.567	0.007	0.0	2	35.9	2	2.53	2	91.1	2	-9	9	-9	9	144.71	2	1235	2	2280.2	2	7.5517	2	-9	5	-9	-9	-9	-9	-9
110	3	1598.7	34.581	2	34.582	2	2.526	2.415	27.602	0.006	0.0	2	35.3	2	2.48	2	96.8	2	-0.001	2	0.011	2	150.52	2	1215	2	2281.9	2	7.5600	2	-9	5	-9	-9	-9	-9	-9
109	2	1797.8	34.614	2	34.615	2	2.233	2.110	27.654	0.004	0.0	2	34.7	2	2.45	2	106.0	2	-9	9	-9	9	154.78	2	1179	2	2286.9	2	7.5718	2	-9	5	-9	-9	-9	-9	-9
108	2	2000.8	34.638	2	34.642	2	2.043	1.905	27.689	0.004	0.0	2	34.8	2	2.46	2	113.5	2	-0.005	2	-0.002	2	155.26	2	1172	2	2294.8	2	7.5764	2	-9	5	-9	-9	-9	-9	-9
107	2	2195.5	34.649	2	34.649	2	1.960	1.807	27.706	0.004	0.0	2	35.1	2	2.49	2	116.3	2	-9	9	-9	9	156.05	2	-9	9	2297.7	2	7.5806	2	-9	5	-9	-9	-9	-9	-9
106	2	2398.6	34.660	2	34.662	2	1.885	1.716	27.721	0.003	0.0	2	34.8	2	2.48	2	120.1	2	-9	9	-9	9	157.41	2	1146	2	2300.5	2	7.5844	2	-9	5	-9	-9	-9	-9	-9
105	2	2596.3	34.664	2	34.665	2	1.873	1.686	27.727	0.002	0.0	2	34.7	2	2.44	2	122.1	2	-9	9	-9	9	158.32	6	-9	9	2300.1	2	7.5851	2	-9	5	-9	-9	-9	-9	-9
104	2	2793.3	34.670	2	34.673	2	1.857	1.652	27.734	0.002	0.0	2	34.6	2	2.42	2	122.4	2	-9	9	-9	9	159.18	2	1135	2	2301.2	2	7.5875	2	-9	5	-9	-9	-9	-9	-9
103	2	2795.2	34.670	2	34.671	2	1.857	1.652	27.734	0.002	0.0	2	34.9	2	2.43	2	121.5	2	-9	9	-9	9	158.78	2	1119	2	2299.0	2	7.5871	2	-9	5	-9	-9	-9	-9	-9
102	2	3000.3	34.671	2	34.673	2	1.869	1.644	27.736	0.002	0.0	2	34.6	2	2.46	2	120.4	2	-9	9	-9	9	159.49	2	-9	9	2301.4	3	7.5884	2	-9	5	-9	-9	-9	-9	-9
101	2	3172.7	34.672	2	34.680	3	1.884	1.642	27.736	0.002	0.0	2	34.9	2	2.47	2	120.1	2	-9	9	-9	9	162.55	2	1130	2	2302.6	2	7.5879	2	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 86 DATE 3/23/94 LATITUDE 26°29.7'S Btm Depth: 3462
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.5	36.032	2	36.028	2	24.464	24.462	24.285	0.040	0.0	2	0.1	2	0.12	2	1.3	2	-9	9	-9	9	211.12	2	315	2	2045.5	3	8.0609	2	-9	5	-9	71.8	4.4	-9	-9
135	2	23.0	36.024	2	36.027	2	24.311	24.306	24.326	0.045	0.0	2	0.1	2	0.10	2	1.2	2	-9	9	-9	9	210.79	2	314	2	2044.0	2	8.0627	2	-9	5	-9	71.9	4.6	-9	-9
134	2	49.0	36.028	2	36.029	2	24.291	24.280	24.336	0.049	0.0	2	0.1	2	0.10	2	1.3	2	-9	9	-9	9	211.17	2	314	2	2044.6	2	8.0622	2	-9	5	-9	69.0	4.2	-9	-9
133	2	75.9	35.846	2	35.886	3	22.451	22.436	24.737	0.055	0.0	2	0.1	2	0.11	2	1.4	2	-9	9	-9	9	226.29	2	313	2	2036.3	2	8.0634	2	-9	5	-9	71.6	4.0	-9	-9
132	2	99.5	35.740	2	35.739	2	21.161	21.142	25.019	0.052	0.0	2	0.1	2	0.13	2	1.3	2	-9	9	-9	9	231.45	2	318	2	2031.9	2	8.0574	2	-9	5	-9	68.0	4.2	-9	-9
131	2	124.1	35.678	2	35.675	2	20.460	20.437	25.163	0.044	0.0	2	0.1	2	0.15	2	1.4	2	-9	9	-9	9	228.54	2	321	2	2033.8	2	8.0499	2	-9	5	-9	69.8	4.1	-9	-9
130	2	148.8	35.617	2	35.625	2	19.933	19.905	25.258	0.039	0.0	2	0.1	2	0.13	2	1.1	2	-9	9	-9	9	224.52	2	331	2	2035.5	2	8.0404	2	-9	5	-9	63.9	-9	-9	-9
129	3	174.0	35.470	2	35.514	3	19.274	19.242	25.318	0.036	0.0	2	0.0	2	0.14	2	1.2	2	-9	9	-9	9	223.58	2	335	2	2033.6	2	8.0343	2	-9	5	-9	-9	-9	-9	-9
128	2	199.6	35.357	2	35.350	2	18.644	18.609	25.393	0.031	0.0	2	0.2	2	0.18	2	1.2	2	-9	1	-9	1	221.79	2	358	2	2042.5	2	8.0072	2	-9	5	-9	64.3	-9	-9	-9
127	2	248.7	34.852	2	34.870	2	15.539	15.500	25.747	0.025	0.0	2	3.7	2	0.45	2	1.5	2	-9	9	-9	9	210.67	2	429	2	2058.9	2	7.9353	2	-9	5	-9	-9	-9	-9	-9
126	2	297.0	34.716	2	34.719	2	13.808	13.765	26.017	0.022	0.0	2	7.6	2	0.70	2	2.2	2	-9	9	-9	9	202.31	2	503	2	2180.5	3	7.8820	2	-9	5	-9	45.9	3.7	-9	-9
125	2	347.1	34.489	2	34.489	2	11.334	11.290	26.325	0.020	0.0	2	13.4	2	1.09	2	3.6	2	-9	9	-9	9	197.17	2	613	2	2103.3	2	7.8049	2	-9	5	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.9	34.393	2	34.393	2	9.107	9.064	26.632	0.018	0.0	2	22.3	2	1.73	2	9.0	2	-9	9	-9	9	163.97	2	878	2	2154.9	3	7.6715	2	-9	5	-9	46.5	-9	-9	-9
122	2	450.5	34.383	2	34.381	2	7.995	7.949	26.797	0.020	0.0	2	26.5	2	1.96	2	12.3	2	-9	9	-9	9	157.44	2	985	2	2174.3	3	-9	9	-9	5	-9	-9	-9	-9	-9
121	2	501.2	34.364	2	34.366	2	7.061	7.013	26.916	0.019	0.0	2	28.9	2	2.06	2	14.3	2	-9	9	-9	9	162.90	2	1028	2	2161.3	2	7.6108	2	-9	5	-9	-9	-9	-9	-9
120	2	599.0	34.299	2	34.300	2	5.894	5.842	27.019	0.017	0.0	2	26.0	2	1.82	2	11.3	2	-9	9	-9	9	231.02	2	824	2	2146.8	2	7.7025	2	-9	5	-9	44.8	2.8	-9	-9
119	2	698.9	34.291	2	34.293	2	5.446	5.387	27.068	0.017	0.0	2	28.6	2	2.01	2	16.0	2	-9	9	-9	9	212.99	2	897	2	-9	9	7.6663	2	-9	9	-9	-9	-9	-9	-9
118	2	802.0	34.312	2	34.311	2	4.958	4.893	27.142	0.015	0.0	2	32.0	2	2.24	2	25.5	2	-9	9	-9	9	185.42	2	1024	2	2190.8	2	7.6130	2	-9	5	-9	39.0	-9	-9	-9
117	2	896.5	34.354	2	34.353	2	4.560	4.489	27.220	0.015	0.0	2	35.1	2	2.49	2	37.6	2	-9	9	-9	9	157.17	2	1157	2	2217.9	2	7.5647	2	-9	5	-9	-9	-9	-9	-9
116	2	1000.7	34.406	2	34.405	2	4.111	4.035	27.310	0.012	0.0	2	37.2	2	2.63	2	52.2	2	-9	9	-9	9	138.54	2	1269	2	2243.2	2	7.5315	2	-9	5	-9	39.1	3.0	-9	-9
115	2	1099.3	34.455	2	34.453	2	3.855	3.772	27.376	0.012	0.0	2	38.0	2	2.67	2	64.8	2	-9	9	-9	9	127.98	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1199.0	34.495	2	34.493	2	3.555	3.466	27.438	0.010	0.0	2	38.0	2	2.71	2	74.6	2	-9	9	-9	9	126.10	2	-9	9	-9	9	7.5213	2	-9	9	-9	-9	-9	-9	-9
113	2	1297.8	34.521	2	34.523	2	3.271	3.177	27.486	0.010	0.0	2	37.5	2	2.68	2	81.0	2	-9	9	-9	9	131.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1398.8	34.545	2	34.545	2	2.945	2.847	27.536	0.008	0.0	2	36.7	2	2.62	2	87.0	2	-9	9	-9	9	139.71	2	-9	9	-9	9	7.5464	2	-9	9	-9	37.0	-9	-9	-9
111	2	1501.8	34.570	2	34.568	2	2.675	2.571	27.580	0.008	0.0	2	36.5	2	2.57	2	92.7	2	-9	9	-9	9	145.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1598.1	34.588	2	34.588	2	2.476	2.367	27.612	0.006	0.0	2	36.4	2	2.57	2	97.0	2	-9	9	-9	9	148.73	2	-9	9	-9	9	7.5615	2	-9	9	-9	-9	-9	-9	-9
109	2	1799.1	34.619	2	34.618	2	2.205	2.082	27.660	0.005	0.0	2	36.0	2	2.54	2	106.0	2	-9	9	-9	9	152.40	2	-9	9	-9	9	7.5701	2	-9	9	-9	-9	-9	-9	-9
108	2	1999.1	34.639	2	34.637	2	2.039	1.902	27.690	0.004	0.0	2	35.7	2	2.51	2	113.2	2	-9	9	-9	9	154.64	2	-9	9	-9	9	-9	9	-9	9	-9	38.6	-9	-9	-9
107	2	2216.2	34.652	2	34.651	2	1.940	1.786	27.710	0.003	0.0	2	35.6	2	2.51	2	117.7	2	-9	9	-9	9	156.61	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2498.8	34.661	2	34.659	2	1.892	1.714	27.722	0.002	0.0	2	35.4	2	2.49	2	119.4	2	-9	9	-9	9	156.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2750.1	34.666	2	34.664	2	1.879	1.678	27.729	0.002	0.0	2	35.3	2	2.50	2	119.5	2	-9	9	-9	9	157.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3001.1	34.670	2	34.664	3	1.880	1.655	27.734	0.002	0.0	2	35.7	2	2.51	2	119.1	2	-9	9	-9	9	157.62	6	-9	9	-9	9	-9	9	-9	9	-9	40.7	1.9	-9	-9
103	2	3249.9	34.672	2	34.671	2	1.892	1.642	27.736	0.001	0.0	2	36.0	2	2.41	2	120.0	2	-9	9	-9	9	157.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3250.3	34.671	2	34.672	2	1.892	1.642	27.736	0.001	0.0	2	35.7	2	2.50	2	121.7	2	-9	9	-9	9	157.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3488.7	34.672	2	34.673	2	1.915	1.639	27.737	0.002	0.0	2	35.6	2	2.50	2	121.8	2	-9	9	-9	9	158.09	2	-9	9	-9	9	-9	9	-9	9	-9	41.2	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 87 DATE 3/23/94 LATITUDE 26°0.0'S Btm Depth: 3464
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.5	35.986	2	35.984	2	24.333	24.331	24.289	0.036	0.0	2	0.1	2	0.16	2	0.9	2	1.987	2	1.078	2	211.13	2	329	2	2047.3	2	8.0571	2	-9	5	1.60	-9	-9	-9	-9
135	2	25.6	35.978	2	35.975	2	24.203	24.198	24.323	0.045	0.0	2	0.0	2	0.13	2	1.0	2	1.989	2	1.074	2	211.15	2	-9	9	2045.3	2	8.0589	2	-9	5	-9	-9	-9	-9	-9
134	2	49.1	36.069	2	36.068	2	24.195	24.185	24.396	0.049	0.0	2	0.0	2	0.13	2	0.9	2	2.019	2	1.071	2	212.95	2	320	2	2047.7	2	8.0599	2	-9	5	-9	-9	-9	-9	-9
133	2	75.0	35.766	2	35.770	2	21.810	21.796	24.857	0.054	0.0	2	0.0	2	0.11	2	1.0	2	2.300	2	1.202	2	232.40	2	-9	9	2029.6	2	8.0605	2	-9	5	-9	-9	-9	-9	-9
132	2	100.4	35.727	2	35.728	2	21.025	21.005	25.046	0.047	0.0	2	0.1	2	0.12	2	1.1	2	2.283	2	1.216	2	231.66	2	319	2	2032.0	2	8.0573	2	-9	5	-9	-9	-9	-9	-9
131	2	123.1	35.766	2	35.766	2	20.757	20.734	25.150	0.044	0.0	2	0.0	2	0.17	2	1.0	2	2.316	2	1.170	2	228.05	2	-9	9	2038.9	2	8.0496	2	-9	5	-9	-9	-9	-9	-9
130	2	149.4	35.665	2	35.665	2	20.159	20.131	25.234	0.039	0.0	2	0.0	2	0.14	2	0.9	2	2.362	2	1.241	2	225.19	2	-9	9	2038.6	2	8.0427	2	-9	5	-9	-9	-9	-9	-9
129	2	199.4	35.478	2	35.479	2	19.230	19.194	25.337	0.031	0.0	2	0.0	2	0.16	2	0.8	2	2.410	2	1.258	2	223.63	2	349	2	2041.0	2	8.0219	2	-9	5	-9	-9	-9	-9	-9
128	2	249.2	35.099	2	35.107	2	16.901	16.860	25.623	0.024	0.0	2	1.7	2	0.33	2	1.0	2	2.724	2	1.277	2	210.89	2	-9	9	2054.4	2	7.9652	2	-9	5	-9	-9	-9	-9	-9
127	2	301.1	34.822	2	34.824	2	14.653	14.608	25.920	0.021	0.0	2	5.7	2	0.61	2	1.6	2	2.367	2	1.164	2	203.42	2	470	2	2070.4	2	7.9051	2	-9	5	-9	-9	-9	-9	-9
126	2	401.6	34.431	2	34.430	2	9.726	9.680	26.561	0.020	0.0	2	19.9	2	1.65	2	7.9	2	1.520	2	0.738	2	167.89	2	807	2	2145.3	2	7.7023	2	-9	5	-9	-9	-9	-9	-9
125	2	451.5	34.363	2	34.362	2	8.104	8.058	26.765	0.019	0.0	2	24.1	2	1.85	2	9.5	2	1.387	2	0.663	6	175.15	2	-9	9	2159.5	2	7.6602	2	-9	5	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.0	34.346	2	34.344	2	7.089	7.041	26.898	0.019	0.0	2	26.0	2	1.93	2	11.1	2	1.164	2	0.567	2	187.27	2	-9	9	2164.4	2	7.6536	2	-9	5	-9	-9	-9	-9	-9
122	2	550.3	34.330	2	34.330	2	6.525	6.474	26.962	0.018	0.0	2	26.7	2	1.91	2	11.7	2	1.081	2	0.531	2	200.70	2	-9	9	2161.6	2	7.6634	2	-9	5	-9	-9	-9	-9	-9
121	2	599.5	34.313	2	34.314	2	6.088	6.035	27.006	0.017	0.0	2	26.9	2	1.93	2	12.2	2	0.995	2	0.489	2	214.87	2	846	2	2158.1	2	7.6802	2	-9	5	-9	-9	-9	-9	-9
120	2	698.6	34.289	2	34.287	2	5.501	5.442	27.059	0.017	0.0	2	27.8	2	2.01	2	14.6	2	0.667	2	0.352	2	219.52	2	-9	9	2160.0	2	7.6765	2	-9	5	-9	-9	-9	-9	-9
119	2	799.9	34.297	2	34.296	2	4.945	4.880	27.131	0.016	0.0	2	31.0	2	2.19	2	22.9	2	0.285	6	0.161	6	197.14	6	977	2	2182.9	2	-9	9	-9	5	-9	-9	-9	-9	-9
118	2	900.2	34.345	2	34.345	2	4.519	4.448	27.218	0.015	0.0	2	34.7	2	2.48	2	36.7	2	0.062	2	0.046	2	162.58	2	-9	9	2213.5	2	-9	9	-9	5	-9	-9	-9	-9	-9
117	2	998.4	34.394	2	34.394	2	4.129	4.052	27.299	0.014	0.0	2	36.4	2	2.61	2	50.5	2	0.018	2	0.015	2	143.80	2	1238	6	2240.5	2	-9	9	-9	5	-9	-9	-9	-9	-9
116	2	1102.4	34.449	2	34.448	2	3.871	3.787	27.369	0.012	0.0	2	37.7	2	2.74	2	63.0	2	0.000	2	0.003	2	129.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1200.2	34.487	2	34.485	2	3.523	3.435	27.435	0.010	0.0	2	37.8	2	2.75	2	72.4	2	0.000	2	0.002	2	129.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1300.6	34.519	2	34.519	2	3.211	3.117	27.491	0.009	0.0	2	37.4	2	2.68	2	80.7	2	0.002	2	-0.001	2	134.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1400.9	34.544	2	34.542	2	2.921	2.822	27.538	0.008	0.0	2	36.7	2	2.62	2	87.6	2	-0.004	2	-0.002	2	140.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1500.7	34.568	2	34.567	2	2.654	2.550	27.580	0.006	0.0	2	36.3	2	2.57	2	93.6	2	-9	9	-9	9	146.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1601.2	34.586	2	34.585	2	2.488	2.378	27.609	0.006	0.0	2	36.3	2	2.62	2	97.9	2	0.015	4	0.001	2	149.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1698.5	34.606	2	34.605	2	2.314	2.198	27.640	0.006	0.0	2	35.9	2	2.61	2	102.7	2	-9	9	-9	9	151.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1799.3	34.620	2	34.621	2	2.196	2.073	27.662	0.004	0.0	2	35.8	2	2.57	2	107.8	2	-0.002	2	0.000	2	152.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2001.4	34.639	2	34.639	2	2.043	1.906	27.690	0.003	0.0	2	35.6	2	2.53	2	114.4	2	-9	9	-9	9	154.14	2	1168	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2248.3	34.654	2	34.654	2	1.933	1.777	27.712	0.003	0.0	2	35.4	2	2.40	4	118.6	2	-0.003	2	-0.003	2	156.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2498.8	34.664	2	34.662	2	1.880	1.702	27.725	0.002	0.0	2	35.5	2	2.56	2	120.0	2	-9	9	-9	9	156.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2748.7	34.669	2	34.668	2	1.858	1.657	27.733	0.002	0.0	2	35.5	2	2.55	2	121.6	2	-0.007	2	-0.004	2	156.46	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2998.8	34.675	2	34.673	2	1.845	1.621	27.740	0.001	0.0	2	35.6	2	2.53	2	124.5	2	-9	9	-9	9	154.76	2	1153	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3249.5	34.679	2	34.679	2	1.835	1.586	27.746	0.001	0.0	2	35.6	2	2.52	2	128.2	2	-0.004	2	-0.002	2	152.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3248.4	34.679	2	34.680	2	1.835	1.586	27.746	0.001	0.0	2	35.7	2	2.52	2	127.6	2	-9	9	-9	9	152.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3483.6	34.682	2	34.681	2	1.838	1.565	27.750	0.002	0.0	2	35.8	2	2.57	2	128.4	2	-0.001	2	0.000	2	151.53	2	1157	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 88 DATE 3/29/94 LATITUDE 25°29.9'S Btm Depth: 3377
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	35.973	2	-9	5	24.366	24.364	24.269	0.033	0.0	2	0.1	2	0.13	2	1.2	2	1.980	2	1.105	2	211.11	6	321	2	2046.2	2	-9	9	2363	6	-9	71.2	5.4	-9	-9
135	2	24.8	35.972	2	35.972	2	24.372	24.367	24.268	0.043	0.0	2	0.1	2	0.12	2	1.2	2	1.998	2	1.062	2	210.58	2	321	2	-9	9	8.0536	2	-9	9	-9	74.8	4.4	-9	-9
134	2	51.7	35.943	2	35.951	2	23.867	23.856	24.398	0.047	0.0	2	0.1	2	0.14	2	1.2	2	2.069	2	1.118	2	215.39	2	320	2	2047.0	2	-9	1	2360	2	-9	75.0	4.3	-9	-9
133	2	73.7	35.894	2	35.841	3	22.186	22.171	24.849	0.051	0.0	2	0.1	2	0.15	2	1.1	2	2.284	2	1.199	2	230.56	2	320	2	-9	9	8.0530	2	-9	9	-9	72.4	4.3	-9	-9
132	2	98.3	35.683	2	35.692	2	20.833	20.815	25.065	0.048	0.0	2	0.1	2	0.11	2	1.1	2	2.320	2	1.251	2	232.65	2	319	2	2032.5	2	8.0503	2	2345	2	-9	69.9	4.3	-9	-9
131	2	123.6	35.692	2	35.687	2	20.408	20.385	25.187	0.044	0.0	2	0.0	2	0.10	2	1.1	2	2.331	6	1.234	6	226.89	2	328	2	-9	9	-9	1	-9	9	-9	67.9	4.9	-9	-9
130	2	148.8	35.558	2	35.553	2	19.792	19.765	25.249	0.037	0.0	2	0.1	2	0.10	2	1.1	2	2.388	2	1.239	2	228.39	2	335	2	-9	9	8.0317	2	-9	9	-9	68.4	-9	-9	-9
129	2	200.4	35.417	2	35.400	2	18.948	18.912	25.362	0.030	0.0	2	0.2	2	0.14	2	1.1	2	-9	1	-9	1	219.15	2	351	2	2041.2	2	8.0130	2	2331	2	-9	56.2	-9	-9	-9
128	3	250.4	35.056	2	34.679	4	16.616	16.575	25.657	0.026	-9	1	-9	1	-9	1	-9	1	2.424	2	1.284	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	298.0	34.696	2	-9	5	13.940	13.897	25.974	0.026	0.0	2	7.4	2	0.68	2	2.1	2	-9	9	-9	9	203.28	2	515	2	2075.6	2	-9	9	2285	2	-9	53.0	3.8	-9	-9
126	2	351.0	34.494	2	34.501	2	11.106	11.063	26.370	0.021	0.0	2	14.8	2	1.17	2	5.0	2	1.904	2	0.927	2	-9	1	668	2	-9	9	7.7764	2	-9	9	-9	-9	-9	-9	-9
125	2	400.2	34.400	2	34.402	2	9.277	9.232	26.611	0.018	0.0	2	20.2	2	1.52	2	7.6	2	-9	9	-9	9	181.28	6	797	2	2143.2	2	7.7066	2	2278	2	-9	50.3	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.2	34.343	2	34.342	2	7.118	7.070	26.891	0.020	0.0	2	24.7	2	1.73	2	10.0	2	1.266	2	0.618	2	200.01	2	854	2	2156.0	2	7.6769	2	2282	2	-9	-9	-9	-9	-9
122	2	601.2	34.306	2	34.306	2	6.039	5.986	27.006	0.017	0.0	2	24.9	2	1.68	2	10.7	2	-9	9	-9	9	-9	1	793	2	2146.2	2	7.7082	2	2278	2	-9	46.4	4.0	-9	-9
121	2	698.2	34.297	2	34.297	2	5.562	5.503	27.059	0.018	0.0	2	28.2	2	1.92	2	16.2	2	0.616	2	0.338	2	209.74	2	908	2	2167.2	2	7.6617	2	2287	2	-9	-9	-9	-9	-9
120	2	799.1	34.303	2	34.304	2	5.014	4.949	27.129	0.017	0.0	2	31.1	2	2.13	2	23.9	2	-9	9	-9	9	191.68	2	999	2	2186.9	2	7.6221	2	2297	2	-9	52.6	-9	-9	-9
119	2	897.9	34.343	2	34.346	2	4.520	4.449	27.216	0.016	0.0	2	34.3	2	2.36	2	36.8	2	0.075	6	0.047	6	163.22	2	1115	4	2216.8	3	7.5741	2	2227	2	-9	-9	-9	-9	-9
118	3	1000.6	34.406	2	34.409	2	4.094	4.018	27.312	0.015	0.0	4	36.3	2	2.52	2	54.0	2	-9	9	-9	9	138.21	2	-9	9	-9	9	-9	9	-9	9	-9	42.8	3.3	-9	-9
117	2	1098.5	34.462	2	34.462	2	3.726	3.645	27.394	0.014	0.0	4	37.1	2	2.61	2	67.0	2	0.005	2	0.004	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1200.0	34.500	2	34.499	2	3.443	3.355	27.453	0.012	0.0	4	36.8	2	2.61	2	76.1	2	-9	9	-9	9	131.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1300.8	34.529	2	34.530	2	3.174	3.081	27.502	0.010	0.0	4	36.2	2	2.56	2	84.7	2	0.000	2	0.000	2	136.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1399.0	34.550	2	34.550	2	2.866	2.768	27.547	0.010	0.0	4	35.9	2	2.51	2	90.6	2	-9	9	-9	9	141.82	2	-9	9	-9	9	-9	9	-9	9	-9	39.3	-9	-9	-9
113	2	1498.7	34.566	2	34.566	2	2.672	2.568	27.577	0.009	0.0	4	35.8	2	2.48	2	93.7	2	-9	9	-9	9	146.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.4	34.588	2	34.587	2	2.463	2.353	27.613	0.008	0.0	4	35.8	2	2.48	2	99.1	2	-0.001	2	0.000	2	149.31	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1799.4	34.620	2	34.620	2	2.187	2.065	27.662	0.006	0.0	4	35.4	2	2.47	2	108.3	2	-9	9	-9	9	153.96	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1967.5	34.636	2	34.636	2	2.057	1.923	27.686	0.006	0.0	4	35.1	2	2.45	2	114.2	2	-9	9	-9	9	154.79	2	-9	9	-9	9	-9	9	-9	9	-9	33.8	-9	-9	-9
109	2	2201.0	34.652	2	34.651	2	1.945	1.793	27.709	0.004	0.0	4	35.1	2	2.43	2	119.2	2	-9	1	-9	1	155.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2398.5	34.659	2	34.659	2	1.897	1.727	27.720	0.004	0.0	4	34.8	2	2.42	2	120.4	2	-9	9	-9	9	156.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2598.2	34.666	2	34.665	2	1.863	1.676	27.729	0.003	0.0	4	34.8	2	2.41	2	121.9	2	-9	9	-9	9	156.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2799.6	34.670	2	34.670	2	1.851	1.646	27.735	0.003	0.0	4	34.8	2	2.45	2	122.8	2	0.002	6	0.001	6	156.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2998.3	34.675	2	34.675	2	1.834	1.610	27.741	0.002	0.0	4	35.0	2	2.47	2	125.5	2	-9	9	-9	9	157.67	2	-9	9	-9	9	-9	9	-9	9	-9	38.1	2.5	-9	-9
104	2	3200.3	34.679	2	34.678	2	1.828	1.585	27.746	0.003	0.0	4	35.0	2	2.44	2	128.4	2	-9	9	-9	9	155.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3300.4	34.680	2	34.680	2	1.833	1.579	27.747	0.003	0.0	4	35.2	2	2.44	2	129.2	2	0.001	2	0.004	2	155.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3300.9	34.679	2	34.679	2	1.833	1.579	27.747	0.003	0.0	4	35.4	2	2.45	2	128.3	2	-9	9	-9	9	155.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3373.4	34.680	2	34.681	2	1.835	1.574	27.748	0.003	0.0	4	35.4	2	2.49	2	128.1	2	-9	9	-9	9	154.79	2	-9	9	-9	9	-9	9	-9	9	-9	42.5	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 89 DATE 3/29/94 LATITUDE 24°59.3'S Btm Depth: 3833
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.2	36.020	2	36.018	2	24.461	24.459	24.276	0.038	0.0	2	0.2	2	0.13	2	1.4	2	1.965	2	1.075	2	-9	1	319	2	2051.0	2	8.0579	2	2368	6	1.60	-9	-9	-9	-9
135	2	24.1	36.018	2	36.018	2	24.472	24.467	24.273	0.041	0.0	2	0.0	2	0.14	2	1.4	2	1.993	2	1.055	2	-9	1	316	2	2047.6	2	8.0570	2	-9	5	1.60	-9	-9	-9	-9
134	2	49.6	35.992	2	36.006	2	24.319	24.309	24.301	0.046	0.0	2	0.0	2	0.12	2	1.4	2	2.001	2	1.081	2	-9	1	319	2	2047.6	2	8.0562	2	2371	2	1.60	-9	-9	-9	-9
133	2	74.6	35.665	2	35.671	2	21.437	21.423	24.884	0.048	0.0	2	0.0	2	0.11	2	1.4	2	2.339	2	1.223	2	-9	1	326	2	2036.9	2	8.0476	2	2352	2	1.60	-9	-9	-9	-9
132	2	101.4	35.668	2	35.671	2	20.654	20.634	25.102	0.046	0.0	2	0.0	2	0.10	2	1.3	2	2.337	2	1.224	2	-9	1	332	2	2032.1	2	8.0476	2	2348	2	1.50	-9	-9	-9	-9
131	2	125.0	35.676	2	35.675	2	20.323	20.299	25.198	0.039	0.0	2	0.1	2	0.13	2	1.4	2	2.325	2	1.202	2	-9	1	325	2	2037.0	2	8.0459	2	2348	2	1.50	-9	-9	-9	-9
130	2	150.0	35.588	2	35.589	2	19.825	19.798	25.264	0.037	0.0	2	0.0	2	0.13	2	1.4	2	2.373	2	1.231	2	-9	1	341	2	2038.8	2	8.0296	2	2346	2	1.50	-9	-9	-9	-9
129	2	201.2	35.277	2	35.301	2	18.434	18.399	25.385	0.031	0.0	2	0.0	2	0.15	2	1.3	2	2.501	2	1.306	2	-9	1	354	2	2037.1	2	8.0105	2	2323	2	1.50	-9	-9	-9	-9
128	3	250.9	34.942	2	-9	9	16.046	16.006	25.701	0.024	-9	9	-9	9	-9	9	-9	9	2.308	2	1.207	2	-9	1	440	2	2078.6	3	-9	9	2285	3	-9	-9	-9	-9	-9
127	2	298.6	34.745	2	34.746	2	13.888	13.845	26.023	0.021	0.0	2	7.1	2	0.63	2	2.3	2	2.261	2	1.106	2	-9	1	503	2	2108.4	3	7.8850	2	2274	2	1.40	-9	-9	-9	-9
126	2	349.7	34.485	2	34.481	2	11.217	11.173	26.343	0.019	0.0	2	13.8	2	1.08	2	4.4	2	2.057	6	1.005	6	-9	1	631	2	2144.2	3	-9	1	2277	2	1.30	-9	-9	-9	-9
125	2	397.9	34.387	2	34.385	2	9.314	9.269	26.595	0.019	0.0	2	20.2	2	1.50	2	7.9	2	1.694	2	0.794	2	-9	1	804	2	2170.0	3	7.7013	2	2274	2	1.10	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	502.1	34.346	2	34.346	2	6.833	6.786	26.933	0.018	0.0	2	26.9	2	1.87	2	13.1	2	1.001	2	0.495	2	-9	1	932	2	2157.1	2	7.6389	2	2278	3	1.00	-9	-9	-9	-9
122	2	600.1	34.304	2	34.304	2	5.860	5.808	27.027	0.017	0.0	2	26.4	2	1.80	2	13.6	2	0.833	2	0.427	2	-9	1	857	2	2172.5	2	7.6801	2	2286	2	-9	-9	-9	-9	-9
121	2	698.2	34.292	2	34.292	2	5.256	5.199	27.091	0.016	0.0	2	28.8	2	1.94	2	19.4	2	0.454	2	0.242	2	-9	1	911	2	2172.8	2	7.6490	2	2283	2	1.10	-9	-9	-9	-9
120	2	799.3	34.335	2	34.337	2	4.847	4.783	27.173	0.016	0.0	2	33.2	2	2.24	2	32.9	2	0.126	2	0.074	2	-9	1	1116	2	2209.1	2	7.5796	2	2291	2	0.80	-9	-9	-9	-9
119	2	900.5	34.384	2	34.385	2	4.443	4.373	27.257	0.015	0.0	2	35.9	2	2.42	2	45.8	2	0.038	6	0.025	6	-9	1	1243	2	2235.6	2	7.5382	2	2313	2	0.60	-9	-9	-9	-9
118	2	1000.9	34.438	2	34.438	2	4.068	3.992	27.340	0.012	0.0	2	36.8	2	2.58	2	59.8	2	0.027	2	0.008	2	-9	1	1319	2	2255.1	2	7.5201	2	2326	6	0.50	-9	-9	-9	-9
117	2	1101.0	34.476	2	34.474	2	3.783	3.700	27.399	0.010	0.0	2	36.9	2	2.59	2	69.0	2	0.006	2	0.001	2	-9	1	1310	2	2266.2	2	7.5221	2	2332	2	0.40	-9	-9	-9	-9
116	2	1201.8	34.512	2	34.512	2	3.487	3.399	27.458	0.010	0.0	2	36.1	2	2.55	2	77.9	2	0.006	2	0.001	2	-9	1	1281	2	2270.7	2	7.5344	2	2346	2	0.30	-9	-9	-9	-9
115	2	1297.8	34.531	2	34.532	2	3.246	3.152	27.497	0.009	0.0	2	35.8	2	2.53	2	83.7	2	0.010	2	0.000	2	-9	1	-9	9	2274.2	2	7.5448	2	2354	2	0.30	-9	-9	-9	-9
114	2	1400.0	34.552	2	34.553	2	2.975	2.876	27.539	0.008	0.0	2	35.9	2	2.52	2	89.9	2	0.013	2	0.007	2	-9	1	1239	2	2279.5	2	7.5504	2	2364	2	0.40	-9	-9	-9	-9
113	2	1499.8	34.569	2	34.569	2	2.757	2.652	27.572	0.008	0.0	2	36.2	2	2.52	2	95.2	2	-9	9	-9	9	-9	1	1244	2	2285.0	2	7.5494	2	2364	2	0.30	-9	-9	-9	-9
112	2	1599.7	34.584	2	34.585	2	2.590	2.479	27.599	0.007	0.0	2	36.2	2	2.52	2	100.1	2	0.003	2	0.002	2	-9	1	1238	2	2289.1	2	7.5530	2	2374	2	0.30	-9	-9	-9	-9
111	2	1799.6	34.615	2	34.616	2	2.265	2.141	27.652	0.004	0.0	2	35.7	2	2.45	2	108.7	2	-9	9	-9	9	-9	1	1207	2	2292.0	2	7.5627	2	2376	2	0.30	-9	-9	-9	-9
110	2	2001.5	34.636	2	34.636	2	2.082	1.944	27.684	0.003	0.0	2	35.3	2	2.42	2	114.8	2	0.017	2	0.001	2	-9	1	-9	9	2295.6	2	7.5744	2	2391	2	0.20	-9	-9	-9	-9
109	2	2248.2	34.655	2	34.655	2	1.936	1.779	27.712	0.003	0.0	2	34.9	2	2.41	2	118.9	2	-9	9	-9	9	-9	1	1172	2	2298.4	2	7.5789	2	2387	2	0.20	-9	-9	-9	-9
108	2	2499.7	34.664	2	34.665	2	1.872	1.694	27.726	0.002	0.0	2	34.6	2	2.39	2	120.3	2	-0.008	2	-0.002	2	-9	1	1149	2	2301.1	2	7.5845	2	2394	2	0.20	-9	-9	-9	-9
107	2	2746.4	34.671	2	34.671	2	1.838	1.638	27.736	0.001	0.0	2	34.6	2	2.40	2	122.3	2	-9	9	-9	9	-9	1	1154	2	2304.1	2	7.5851	2	2403	2	0.20	-9	-9	-9	-9
106	2	2999.4	34.678	2	34.678	2	1.813	1.590	27.745	0.001	0.0	2	34.8	2	2.42	2	125.7	2	0.003	2	0.002	2	-9	1	1147	2	2311.2	2	7.5874	2	2405	2	0.20	-9	-9	-9	-9
105	2	3251.7	34.682	2	34.682	2	1.808	1.560	27.750	0.001	0.0	2	34.9	2	2.46	2	127.8	2	-9	9	-9	9	-9	1	-9	9	2316.5	2	7.5880	2	2414	2	0.20	-9	-9	-9	-9
104	2	3498.4	34.683	2	34.683	2	1.827	1.552	27.752	0.001	0.0	2	35.1	2	2.47	2	129.2	2	0.004	2	0.000	2	-9	1	1150	2	2320.6	2	7.5862	2	2418	2	0.20	-9	-9	-9	-9
103	2	3749.7	34.683	2	34.683	2	1.848	1.547	27.752	0.001	0.0	2	35.3	2	2.44	2	131.3	2	0.002	2	0.001	2	-9	1	1144	2	2320.9	2	7.5878	2	2412	2	-9	-9	-9	-9	-9
102	2	3751.4	34.683	2	34.684	2	1.848	1.547	27.752	0.001	0.0	2	35.2	2	2.43	2	131.6	2	0.001	2	0.011	2	-9	1	1161	2	2319.9	2	7.5868	2	2409	2	0.10	-9	-9	-9	-9
101	2	3860.3	34.684	2	34.685	2	1.858	1.544	27.753	0.002	0.0	2	35.5	2	2.44	2	131.3	2	-9	9	-9	9	-9	1	1156	2	2320.6	2	7.5868	2	2418	2	0.20	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 90 DATE 3/29/94 LATITUDE 24°30.1'S Btm Depth: 3644
CAST 3 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.8	36.025	2	36.024	2	24.567	24.565	24.249	0.040	0.0	2	0.0	2	0.15	2	1.3	2	1.986	2	1.070	2	210.84	2	323	2	2055.6	3	8.0533	2	2371	6	-9	78.8	4.3	0.022	0.006
335	2	23.6	36.025	2	36.023	2	24.547	24.542	24.255	0.043	0.0	2	0.0	2	0.14	2	1.4	2	-9	9	-9	9	214.12	2	-9	9	-9	9	8.0546	2	-9	9	-9	80.6	4.7	0.023	0.009
334	2	50.2	36.004	2	36.003	2	24.401	24.390	24.285	0.049	0.0	2	0.0	2	0.13	2	1.4	2	2.006	2	1.056	2	212.54	2	325	2	2050.3	2	8.0510	2	2370	2	-9	75.3	4.3	0.024	0.007
333	2	75.7	35.724	2	35.707	2	22.038	22.023	24.761	0.052	0.0	2	0.0	2	0.14	2	1.5	2	-9	9	-9	9	232.54	2	-9	9	-9	9	8.0491	2	-9	9	-9	79.1	4.5	0.034	0.016
332	3	101.0	35.654	2	35.674	2	21.048	21.028	24.984	0.051	0.0	2	0.0	2	0.14	2	1.4	2	2.332	2	1.226	2	230.29	2	326	2	2032.6	2	8.0523	2	2332	3	-9	76.8	4.3	0.044	0.017
331	2	119.0	35.581	2	35.581	2	20.369	20.347	25.113	0.046	0.0	2	0.0	2	0.14	2	1.3	2	-9	9	-9	9	232.70	2	-9	9	-9	9	8.0428	2	-9	9	-9	76.2	4.0	0.057	0.023
330	2	150.9	35.520	2	35.521	2	19.685	19.657	25.249	0.040	0.0	2	0.0	2	0.13	2	1.1	2	2.424	2	1.260	2	221.96	2	-9	9	-9	9	8.0333	2	-9	9	-9	-9	-9	0.093	0.043
329	3	200.6	35.355	2	-9	5	18.603	18.568	25.402	0.034	-9	9	-9	9	-9	9	-9	9	2.490	2	1.279	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
328	2	223.5	35.180	2	35.193	2	17.513	17.475	25.538	0.030	0.0	2	0.9	2	0.27	2	1.4	2	-9	1	-9	1	214.67	2	394	2	2053.5	2	7.9778	2	2316	2	-9	-9	-9	0.084	0.104
327	2	249.3	34.973	2	34.970	2	16.254	16.214	25.678	0.025	0.0	2	2.7	2	0.38	2	1.5	2	-9	9	-9	9	209.25	2	-9	9	-9	9	7.9494	2	-9	9	-9	-9	-9	0.051	0.054
326	3	301.7	34.586	2	34.574	2	13.040	12.998	26.072	0.022	0.0	2	9.1	2	0.81	2	2.7	2	2.360	2	1.157	2	197.87	2	549	2	2084.1	2	7.8527	2	2282	2	-9	60.3	3.5	0.005	0.007
325	2	351.6	34.447	2	34.449	2	10.693	10.651	26.407	0.020	0.0	2	14.9	2	1.19	2	4.9	2	-9	9	-9	9	191.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	398.7	34.399	2	34.398	2	9.025	8.982	26.650	0.020	0.0	2	21.2	2	1.64	2	8.8	2	1.456	2	0.708	2	173.42	2	852	2	2148.8	2	7.6886	2	2281	2	-9	-9	-9	-9	-9
322	2	449.8	34.378	2	34.381	2	7.673	7.628	26.840	0.020	0.0	2	27.0	2	2.01	2	13.7	2	-9	9	-9	9	151.05	2	-9	9	-9	9	7.6060	2	-9	9	-9	-9	-9	-9	-9
321	2	498.7	34.352	2	34.351	2	6.795	6.749	26.942	0.019	0.0	2	27.3	2	1.96	2	14.1	2	0.903	6	0.442	6	176.72	2	985	2	2173.8	2	7.6276	2	2282	2	-9	-9	-9	-9	-9
320	2	549.6	34.326	2	34.325	2	6.275	6.226	26.991	0.018	0.0	2	26.9	2	1.86	2	13.4	2	-9	9	-9	9	201.76	2	-9	9	-9	9	7.6648	2	-9	9	-9	-9	-9	-9	-9
319	2	599.0	34.310	2	34.308	2	5.897	5.845	27.027	0.017	0.0	2	27.3	2	1.88	2	14.7	2	0.791	2	0.407	2	207.76	6	897	2	2162.4	2	7.6672	2	2277	2	-9	49.9	-9	-9	-9
318	2	699.6	34.305	2	34.304	2	5.364	5.306	27.088	0.017	0.0	2	29.4	2	2.03	2	20.2	2	-9	9	-9	9	196.02	6	970	2	2176.7	2	7.6369	2	2282	2	-9	-9	-9	-9	-9
317	2	800.5	34.337	2	34.336	2	4.733	4.669	27.187	0.014	0.0	2	33.4	2	2.26	2	33.5	2	0.132	2	0.072	2	166.69	6	1130	2	2209.1	2	7.5812	2	2297	2	-9	-9	-9	-9	-9
316	2	900.2	34.394	2	34.392	2	4.356	4.286	27.274	0.015	0.0	2	35.9	2	2.47	2	47.7	2	-9	9	-9	9	138.45	2	1265	2	2238.3	2	7.5340	2	2307	2	-9	-9	-9	-9	-9
315	2	999.4	34.448	2	34.447	2	3.968	3.893	27.358	0.012	0.0	2	37.2	2	2.56	2	61.4	2	0.026	2	0.005	2	126.14	2	1323	2	2260.7	2	7.5195	2	2328	6	-9	50.6	-9	-9	-9
314	2	1097.3	34.489	2	34.486	2	3.718	3.636	27.416	0.011	0.0	2	36.8	2	2.57	2	70.0	2	-9	9	-9	9	126.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	2	1198.6	34.518	2	34.517	2	3.427	3.340	27.469	0.010	0.0	2	36.5	2	2.55	2	78.3	2	0.333	4	0.199	4	131.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
312	2	1401.7	34.557	2	34.555	2	2.956	2.857	27.545	0.008	0.0	2	36.1	2	2.50	2	91.7	2	-9	9	-9	9	137.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
311	2	1598.3	34.588	2	34.587	2	2.593	2.482	27.602	0.006	0.0	2	36.2	2	2.49	2	101.6	2	-9	9	-9	9	138.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	1800.2	34.614	2	34.612	2	2.315	2.191	27.647	0.005	0.0	2	35.8	2	2.47	2	106.7	2	-9	9	-9	9	145.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
309	2	1998.4	34.635	2	34.633	2	2.099	1.961	27.682	0.004	0.0	2	35.3	2	2.41	2	110.7	2	0.009	2	0.003	2	150.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2250.4	34.653	2	34.651	2	1.958	1.801	27.709	0.003	0.0	2	35.3	2	2.42	2	114.2	2	-9	9	-9	9	152.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2498.3	34.664	2	34.662	2	1.875	1.697	27.726	0.002	0.0	2	34.5	2	2.41	2	117.0	2	-9	9	-9	9	155.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	2747.8	34.670	2	34.668	2	1.845	1.645	27.735	0.002	0.0	2	34.5	2	2.39	2	120.3	2	-9	9	-9	9	153.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
305	2	2997.3	34.676	2	34.674	2	1.818	1.595	27.743	0.001	0.0	2	34.9	2	2.39	2	124.4	2	-9	9	-9	9	155.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3249.4	34.681	2	34.679	2	1.806	1.558	27.750	0.001	0.0	2	34.6	2	2.43	2	126.6	2	-9	9	-9	9	147.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3499.3	34.684	2	34.683	2	1.814	1.540	27.753	0.001	0.0	2	34.9	2	2.42	2	127.6	2	-9	9	-9	9	150.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	3497.7	34.684	2	34.683	2	1.814	1.540	27.753	0.002	0.0	2	35.1	2	2.45	2	126.9	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	2	3620.5	34.684	2	34.683	2	1.821	1.534	27.755	0.002	0.0	2	35.5	2	2.47	2	126.6	2	-9	9	-9	9	147.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 91 DATE 3/29/94 LATITUDE 23°59.9'S Btm Depth: 3855
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	36.058	2	36.059	2	24.502	24.500	24.293	0.040	0.0	2	0.1	2	0.14	2	1.1	2	1.979	2	1.074	2	210.46	2	326	2	2057.2	2	8.0516	2	2374	2	1.60	-9	-9	-9	-9
135	2	25.0	36.065	2	36.065	2	24.472	24.467	24.308	0.046	0.0	2	0.1	2	0.17	2	1.0	2	1.993	2	1.072	2	210.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
134	3	48.0	35.981	2	-9	5	23.829	23.819	24.438	0.053	-9	1	-9	1	-9	1	-9	1	2.075	2	1.107	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	2	72.5	35.752	2	35.752	2	21.967	21.953	24.803	0.054	0.0	2	0.1	2	0.13	2	1.0	2	2.291	2	1.192	2	231.53	2	-9	9	-9	9	8.0491	2	-9	9	-9	-9	-9	-9	-9
132	3	97.3	35.633	2	35.632	2	20.751	20.733	25.048	0.053	0.0	2	0.0	2	0.13	2	0.9	2	2.358	2	1.234	2	234.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	2	123.4	35.622	2	35.622	2	20.225	20.202	25.183	0.046	0.0	2	0.0	2	0.12	2	0.9	2	2.372	2	1.233	2	231.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	2	149.8	35.596	2	35.599	2	19.876	19.848	25.256	0.040	0.0	2	0.0	2	0.13	2	0.9	2	2.388	2	1.240	2	228.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	2	198.3	35.459	2	35.461	2	19.112	19.076	25.353	0.035	0.0	2	0.1	2	0.18	2	1.0	2	2.410	2	1.261	2	221.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	250.0	34.927	2	34.917	2	16.079	16.039	25.683	0.025	0.0	2	2.9	2	0.40	2	1.1	2	2.536	2	1.292	2	211.17	2	428	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	298.9	34.578	2	34.577	2	12.945	12.904	26.085	0.023	0.0	2	10.0	2	0.84	2	2.9	2	2.295	6	1.132	6	193.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	348.0	34.455	2	34.459	2	10.434	10.392	26.459	0.021	0.0	2	18.1	2	1.44	2	7.8	2	1.615	2	0.789	2	161.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	402.3	34.429	2	34.428	2	8.988	8.944	26.680	0.020	0.0	2	24.8	2	1.91	2	13.3	2	0.988	2	0.485	2	129.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.4	34.351	2	34.351	2	6.802	6.755	26.941	0.019	0.0	2	27.2	2	1.91	2	13.7	2	0.881	2	0.451	2	178.22	2	987	2	-9	9	7.6313	2	-9	9	-9	-9	-9	-9	-9
122	2	597.3	34.311	2	34.311	2	5.875	5.823	27.031	0.017	0.0	2	27.3	2	1.89	2	14.7	2	0.728	2	0.378	2	206.45	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	694.6	34.308	2	34.309	2	5.259	5.201	27.103	0.017	0.0	2	29.9	2	2.08	2	21.6	2	0.372	2	0.204	2	191.54	2	989	2	-9	9	7.6278	2	-9	9	-9	-9	-9	-9	-9
120	2	798.9	34.353	2	34.353	2	4.826	4.762	27.190	0.017	0.0	2	34.1	2	2.35	2	35.3	2	0.096	6	0.057	6	153.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	897.6	34.408	2	34.407	2	4.373	4.304	27.283	0.013	0.0	2	36.5	2	2.52	2	50.8	2	-9	1	-9	1	131.22	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	1000.3	34.455	2	34.456	2	4.033	3.958	27.357	0.013	0.0	2	37.4	2	2.59	2	62.8	2	0.002	2	0.001	2	122.68	2	1338	6	-9	9	7.5163	2	-9	9	-9	-9	-9	-9	-9
117	2	1098.0	34.495	2	34.494	2	3.743	3.661	27.419	0.009	0.0	2	37.2	2	2.55	2	73.9	2	0.000	2	0.000	2	126.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1199.6	34.521	2	34.520	2	3.446	3.358	27.469	0.010	0.0	2	37.2	2	2.57	2	80.7	2	0.000	2	0.000	2	127.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1298.1	34.542	2	34.543	2	3.193	3.100	27.510	0.008	0.0	2	36.5	2	2.56	2	87.3	2	-9	1	-9	1	131.89	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1399.5	34.560	2	34.560	2	2.964	2.865	27.546	0.008	0.0	2	36.4	2	2.52	2	93.8	2	0.002	2	0.000	2	134.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1499.4	34.575	2	34.574	2	2.773	2.668	27.575	0.007	0.0	2	36.1	2	2.53	2	99.3	2	-0.001	2	0.000	2	134.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1796.7	34.615	2	34.615	2	2.292	2.169	27.650	0.005	0.0	2	35.3	2	2.44	2	108.8	2	-9	9	-9	9	145.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2000.8	34.638	2	34.639	2	2.077	1.939	27.686	0.004	0.0	2	35.0	2	2.43	2	113.0	2	-0.002	2	-0.001	2	151.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2200.0	34.653	2	34.652	2	1.952	1.799	27.709	0.003	0.0	2	34.7	2	2.41	2	116.1	2	-9	9	-9	9	154.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2400.4	34.661	2	34.661	2	1.888	1.719	27.722	0.002	0.0	2	34.9	2	2.38	2	119.7	2	-0.001	2	0.000	2	156.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2598.9	34.668	2	34.667	2	1.847	1.660	27.732	0.002	0.0	2	34.7	2	2.37	2	122.1	2	-9	9	-9	9	156.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2799.6	34.673	2	34.672	2	1.823	1.618	27.739	0.001	0.0	2	34.9	2	2.37	2	123.5	2	-0.004	2	-0.001	2	156.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2996.4	34.677	2	34.676	2	1.808	1.585	27.745	0.001	0.0	2	35.1	2	2.41	2	124.2	2	-9	9	-9	9	154.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3199.5	34.681	2	34.680	2	1.801	1.558	27.750	0.001	0.0	2	35.2	2	2.44	2	125.8	2	0.001	2	0.012	2	151.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3400.5	34.683	2	34.682	2	1.804	1.541	27.753	0.001	0.0	2	35.2	2	2.42	2	129.0	2	-9	9	-9	9	151.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3600.0	34.684	2	34.684	2	1.816	1.532	27.755	0.001	0.0	2	35.1	2	2.41	2	131.3	2	-0.001	2	0.002	2	149.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3599.9	34.684	2	34.684	2	1.817	1.532	27.754	0.001	0.0	2	34.7	2	2.42	2	130.9	2	-0.002	2	0.001	2	150.13	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3856.6	34.685	2	34.684	2	1.843	1.530	27.755	0.002	0.0	2	35.1	2	2.42	2	130.5	2	-0.003	2	0.000	2	149.75	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 92 DATE 3/30/94 LATITUDE 23°29.7S Btm Depth: 3906
CAST 1 LONGITUDE 102°59.7W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.2	36.045	2	36.044	2	24.551	24.549	24.268	0.039	0.0	2	0.1	2	0.17	2	1.1	2	1.962	4	1.089	4	210.18	2	334	2	2056.0	2	8.0476	2	2372	6	-9	64.7	5.6	-9	-9
135	2	23.2	36.046	2	36.046	2	24.429	24.424	24.307	0.044	0.0	2	0.1	2	0.17	2	1.2	2	-9	9	-9	9	-9	1	-9	9	-9	9	8.0475	2	-9	9	-9	70.5	5.5	-9	-9
134	3	49.8	36.091	2	-9	5	24.308	24.297	24.379	0.048	-9	9	-9	9	-9	9	-9	9	2.020	2	1.073	2	213.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	2	73.7	35.797	2	35.798	2	22.056	22.041	24.812	0.050	0.0	2	0.1	2	0.15	2	1.1	2	-9	9	-9	9	229.93	2	-9	9	-9	9	8.0431	2	-9	9	-9	66.7	4.8	-9	-9
132	2	96.1	35.730	2	35.730	2	21.033	21.015	25.046	0.050	0.0	2	0.0	2	0.13	2	1.1	2	-9	1	-9	1	232.66	2	334	3	2040.3	2	8.0463	2	2353	2	-9	62.1	-9	-9	-9
131	2	123.8	35.702	2	35.697	2	20.398	20.375	25.198	0.045	0.0	2	0.0	2	0.19	2	1.2	2	-9	9	-9	9	229.19	2	-9	9	-9	9	8.0362	2	-9	9	-9	63.2	4.8	-9	-9
130	2	149.0	35.639	2	35.638	2	19.925	19.898	25.276	0.038	0.0	2	0.0	2	0.20	2	1.0	2	2.365	2	1.232	2	226.63	6	-9	9	-9	9	8.0279	2	-9	9	-9	62.5	-9	-9	-9
129	2	198.7	35.333	2	35.335	2	18.446	18.411	25.425	0.033	0.1	2	0.2	2	0.24	2	1.1	2	-9	9	-9	9	220.70	2	370	2	2051.6	2	7.9976	2	2328	2	-9	57.1	-9	-9	-9
128	2	248.1	34.783	2	34.790	2	15.301	15.263	25.747	0.027	0.0	2	4.7	2	0.53	2	1.5	2	2.578	2	1.294	2	208.12	2	-9	9	-9	9	7.9178	2	-9	9	-9	-9	-9	-9	-9
127	2	300.8	34.556	2	34.551	2	12.726	12.686	26.111	0.021	0.0	2	10.6	2	0.91	2	3.4	2	2.244	2	1.118	2	191.86	2	568	2	2093.9	2	7.8330	2	2278	2	-9	46.6	3.9	-9	-9
126	2	349.8	34.471	2	34.469	2	10.831	10.788	26.401	0.019	0.0	2	16.9	2	1.36	2	6.9	2	-9	9	-9	9	170.10	2	-9	9	-9	9	7.7346	2	-9	9	-9	-9	-9	-9	-9
125	2	397.3	34.419	2	34.418	2	9.037	8.994	26.664	0.020	0.0	2	23.5	2	1.83	2	11.5	2	1.194	2	0.580	2	147.64	6	952	2	2169.2	2	-9	9	2276	2	-9	46.1	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	498.0	34.358	2	34.357	2	6.721	6.675	26.957	0.019	0.0	2	28.7	2	2.05	2	15.4	2	-9	9	-9	9	167.49	2	1032	2	2180.8	2	7.6083	2	2277	2	-9	-9	-9	-9	-9
122	2	601.1	34.321	2	34.322	2	5.821	5.769	27.045	0.017	0.0	2	29.3	2	2.01	2	17.8	2	0.480	6	0.257	6	187.55	2	977	2	2177.0	2	7.6313	2	2281	2	-9	47.2	3.8	-9	-9
121	2	700.6	34.325	2	34.326	2	5.197	5.139	27.124	0.017	0.0	2	32.1	2	2.17	2	26.3	2	0.231	2	0.127	2	172.62	2	1072	2	2196.9	2	7.5942	2	2289	2	-9	-9	-9	-9	-9
120	3	799.4	34.368	2	34.369	2	4.751	4.687	27.210	0.016	0.0	2	35.3	2	2.41	2	39.2	2	-9	9	-9	9	-9	1	1214	2	2226.5	2	7.5449	2	2303	2	-9	45.8	-9	-9	-9
119	2	900.3	34.413	2	34.413	2	4.309	4.240	27.294	0.015	0.0	2	36.9	2	2.54	2	52.1	2	-9	9	-9	9	129.95	2	1308	2	2246.9	2	7.5208	2	2315	2	-9	-9	-9	-9	-9
118	3	998.9	34.463	2	34.462	2	3.959	3.884	27.371	0.013	0.0	2	37.6	2	2.61	2	64.8	2	0.010	2	0.004	2	123.76	2	1332	2	2263.4	2	7.5174	2	2332	6	-9	41.1	2.6	-9	-9
117	2	1100.4	34.507	2	34.507	2	3.667	3.586	27.436	0.011	0.0	2	37.3	2	2.60	2	74.8	2	-9	9	-9	9	128.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1198.7	34.531	2	34.530	2	3.379	3.293	27.483	0.010	0.0	2	36.8	2	2.57	2	81.9	2	-9	1	-9	1	132.08	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1299.5	34.548	2	34.547	2	3.165	3.072	27.517	0.009	0.0	2	37.0	2	2.55	2	89.3	2	-9	9	-9	9	138.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1402.2	34.563	2	34.563	2	2.942	2.843	27.551	0.008	0.0	2	37.0	2	2.57	2	96.3	2	-9	9	-9	9	132.49	2	-9	9	-9	9	-9	9	-9	9	-9	41.1	-9	-9	-9
113	2	1498.6	34.580	2	34.578	2	2.761	2.656	27.580	0.006	0.0	2	37.0	2	2.58	2	101.6	2	0.006	2	-0.002	2	131.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.9	34.592	2	34.592	2	2.597	2.485	27.605	0.006	0.0	2	36.6	2	2.56	2	104.4	2	-9	9	-9	9	133.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1800.2	34.617	2	34.616	2	2.285	2.161	27.652	0.004	0.0	2	35.9	2	2.49	2	109.0	2	-9	9	-9	9	146.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1999.2	34.638	2	34.637	2	2.078	1.941	27.686	0.003	0.0	2	35.3	2	2.45	2	113.5	2	-9	9	-9	9	151.43	2	-9	9	-9	9	-9	9	-9	9	-9	40.2	-9	-9	-9
109	2	2247.0	34.655	2	34.654	2	1.938	1.782	27.712	0.002	0.0	2	35.0	2	2.42	2	116.9	2	0.004	2	0.001	2	155.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2499.4	34.665	2	34.664	2	1.866	1.688	27.728	0.002	0.0	2	35.0	2	2.38	2	118.4	2	-9	9	-9	9	157.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2721.2	34.672	2	34.671	2	1.831	1.634	27.737	0.001	0.0	2	35.4	2	2.39	2	120.3	2	-9	9	-9	9	157.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3000.5	34.678	2	34.678	2	1.801	1.577	27.746	0.001	0.0	2	35.7	2	2.42	2	123.8	2	-9	9	-9	9	155.00	2	-9	9	-9	9	-9	9	-9	9	-9	36.1	3.0	-9	-9
105	2	3250.9	34.682	2	34.681	2	1.797	1.549	27.751	0.000	0.0	2	35.8	2	2.45	2	127.1	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3491.4	34.684	2	34.683	2	1.804	1.531	27.755	0.001	0.0	2	35.5	2	2.43	2	130.7	2	-9	9	-9	9	150.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3747.2	34.685	2	34.685	2	1.824	1.524	27.756	0.001	0.0	2	35.6	2	2.43	2	132.1	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3748.6	34.685	2	34.684	2	1.824	1.523	27.756	0.001	0.0	2	35.7	2	2.43	2	131.6	2	-9	9	-9	9	150.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3955.5	34.685	2	34.687	2	1.846	1.523	27.756	0.001	0.0	2	35.9	2	2.44	2	130.8	2	-9	9	-9	9	149.60	2	-9	9	-9	9	-9	9	-9	9	-9	39.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 93 DATE 3/30/94 LATITUDE 23°0.1'S Btm Depth: 4021
CAST 1 LONGITUDE 102°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.3	36.289	2	36.288	2	24.640	24.637	24.426	0.037	0.0	2	0.1	2	0.22	2	1.3	2	1.959	2	1.050	2	205.08	2	345	3	2063.2	2	8.0616	2	2390	2	1.70	-9	-9	-9	-9
135	2	24.5	36.297	2	36.295	2	24.595	24.589	24.447	0.045	0.0	2	0.0	2	0.21	2	1.3	2	1.974	6	1.053	6	205.89	2	-9	9	2063.3	2	8.0582	2	2391	6	-9	-9	-9	-9	-9
134	2	53.8	36.300	2	36.300	2	24.269	24.258	24.549	0.049	0.0	2	0.0	2	0.25	2	1.3	2	2.034	2	1.058	2	213.75	2	326	2	2068.6	2	8.0573	2	2389	2	-9	-9	-9	-9	-9
133	2	75.0	35.852	2	35.880	3	21.814	21.799	24.922	0.051	0.0	2	0.0	2	0.14	2	1.3	2	2.313	2	1.195	2	229.21	2	326	2	2040.6	2	8.0567	2	2359	2	-9	-9	-9	-9	-9
132	2	99.5	35.938	2	35.962	2	21.505	21.486	25.074	0.047	0.0	2	0.1	2	0.22	2	1.3	2	2.235	6	1.181	6	225.55	2	327	2	2055.9	2	8.0478	2	-9	5	-9	-9	-9	-9	-9
131	2	126.4	35.882	2	35.902	2	20.951	20.926	25.186	0.043	0.0	2	0.0	2	0.25	2	1.2	2	2.270	2	1.168	2	222.60	2	341	2	2059.1	2	8.0360	2	2368	2	-9	-9	-9	-9	-9
130	2	144.6	35.816	2	35.814	2	20.626	20.599	25.224	0.043	0.0	2	0.1	2	0.18	2	1.2	2	2.306	2	1.180	2	221.07	6	331	2	2046.6	2	8.0416	2	2354	2	-9	-9	-9	-9	-9
129	2	201.8	35.492	2	35.483	2	19.033	18.997	25.398	0.034	0.1	2	0.2	2	0.23	2	1.2	2	2.369	2	1.229	2	214.16	2	366	3	2049.9	2	8.0047	2	2334	2	-9	-9	-9	-9	-9
128	2	248.8	35.087	2	35.089	2	16.722	16.681	25.656	0.024	0.0	2	2.2	2	0.35	2	1.2	2	2.433	2	1.241	2	207.07	2	415	2	2057.6	2	7.9543	2	2309	2	-9	-9	-9	-9	-9
127	2	299.9	34.708	2	34.702	2	13.665	13.622	26.040	0.021	0.0	2	8.3	2	0.78	2	2.6	2	1.444	4	1.079	2	192.86	2	531	3	2085.8	2	7.8622	2	2288	2	-9	-9	-9	-9	-9
126	2	353.6	34.504	2	34.502	2	11.042	10.998	26.390	0.019	0.0	2	16.4	2	1.35	2	6.8	2	1.635	6	0.794	6	164.92	2	734	2	2131.6	2	7.7376	2	2278	2	-9	-9	-9	-9	-9
125	2	400.8	34.431	2	34.431	2	9.089	9.045	26.665	0.020	0.0	2	24.8	2	1.93	2	12.8	2	0.997	2	0.501	2	130.65	2	1032	3	2181.8	2	7.6078	2	2276	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.3	34.369	2	34.370	2	6.867	6.820	26.947	0.019	0.0	2	29.8	2	2.11	2	16.3	2	0.557	2	0.293	2	151.46	2	1098	2	2191.7	2	7.5811	2	2277	2	-9	-9	-9	-9	-9
122	2	599.6	34.319	2	34.319	2	5.801	5.749	27.046	0.017	0.0	2	29.5	2	2.05	2	17.3	2	0.455	2	0.242	2	187.97	2	978	2	2178.2	2	7.6312	2	2284	2	-9	-9	-9	-9	-9
121	2	699.5	34.328	2	34.329	2	5.240	5.182	27.121	0.017	0.0	2	32.6	2	2.26	2	25.4	2	0.176	2	0.106	2	169.05	2	1084	2	2199.1	2	7.5925	2	2293	2	-9	-9	-9	-9	-9
120	2	800.0	34.371	2	34.370	2	4.728	4.665	27.214	0.016	0.0	2	35.8	2	2.46	2	38.9	2	0.041	2	0.024	2	132.78	6	1239	2	2228.3	2	7.5424	2	2302	2	-9	-9	-9	-9	-9
119	2	882.5	34.405	2	34.406	2	4.385	4.316	27.280	0.014	0.0	2	37.1	2	2.56	2	50.0	2	0.009	6	0.003	6	128.06	2	1306	2	2263.9	2	7.5245	2	2333	2	-9	-9	-9	-9	-9
118	2	997.3	34.472	2	34.474	2	3.974	3.899	27.377	0.012	0.0	2	37.4	2	2.60	2	66.0	2	-0.002	2	0.003	2	113.25	2	1316	2	2263.3	2	7.5225	2	2332	6	-9	-9	-9	-9	-9
117	2	1098.6	34.512	2	34.513	2	3.751	3.669	27.432	0.011	0.1	2	37.5	2	2.58	2	75.7	2	-9	1	-9	1	102.04	2	1299	2	2272.2	2	7.5307	3	2344	2	-9	-9	-9	-9	-9
116	2	1183.8	34.529	2	34.529	2	3.536	3.449	27.467	0.009	0.0	2	37.3	2	2.57	2	81.4	2	0.001	2	0.001	2	126.03	2	1298	2	2277.8	2	7.5288	2	2354	2	-9	-9	-9	-9	-9
115	2	1400.1	34.565	2	34.565	2	3.024	2.924	27.545	0.008	0.0	2	37.4	2	2.64	2	95.7	2	-0.002	6	0.001	6	122.60	2	1330	2	2295.7	2	7.5242	2	2364	2	-9	-9	-9	-9	-9
114	2	1583.3	34.586	2	34.587	2	2.682	2.571	27.593	0.006	0.0	2	37.2	2	2.56	2	101.3	2	0.002	2	0.003	2	131.12	2	1295	2	2298.2	2	7.5375	2	2373	2	-9	-9	-9	-9	-9
113	2	1803.2	34.613	2	34.612	2	2.339	2.214	27.644	0.004	0.0	2	36.0	2	2.50	2	107.1	2	-9	9	-9	9	142.33	2	1232	2	2293.3	2	7.5538	2	2382	2	-9	-9	-9	-9	-9
112	2	2000.3	34.635	2	34.636	2	2.111	1.973	27.681	0.004	0.0	2	35.2	2	2.44	2	111.6	2	0.001	2	0.001	2	149.41	2	1202	2	2298.4	2	7.5695	2	2389	2	-9	-9	-9	-9	-9
111	2	2200.4	34.651	2	34.650	2	1.979	1.825	27.705	0.003	0.1	2	35.0	2	2.41	2	115.0	2	-9	9	-9	9	153.50	2	1173	2	2301.8	2	7.5759	2	2386	2	-9	-9	-9	-9	-9
110	2	2400.1	34.661	2	34.661	2	1.893	1.724	27.722	0.002	0.1	2	35.1	2	2.41	2	117.2	2	-9	9	-9	9	156.20	6	1169	2	2306.8	2	7.5812	2	2393	2	-9	-9	-9	-9	-9
109	2	2601.1	34.668	2	34.670	2	1.845	1.658	27.732	0.001	0.0	2	34.8	2	2.39	2	118.8	2	0.002	2	0.004	2	156.66	2	1149	2	2301.7	2	7.5851	2	2401	2	-9	-9	-9	-9	-9
108	2	2800.9	34.674	2	34.673	2	1.819	1.614	27.740	0.001	0.0	2	34.9	2	2.39	2	120.7	2	-9	9	-9	9	155.10	2	1158	3	2305.1	2	7.5863	2	2397	2	-9	-9	-9	-9	-9
107	2	2996.1	34.678	2	34.678	2	1.798	1.575	27.746	0.001	0.0	2	35.6	2	2.42	2	123.3	2	-9	9	-9	9	143.96	3	1149	2	2309.7	2	7.5860	2	2405	2	-9	-9	-9	-9	-9
106	2	3246.2	34.682	2	34.681	2	1.789	1.541	27.752	0.000	0.0	2	35.5	2	2.43	2	126.1	2	0.002	2	0.003	2	146.12	3	1155	2	2316.1	2	7.5859	2	2417	2	-9	-9	-9	-9	-9
105	2	3478.9	34.684	2	34.683	2	1.797	1.526	27.755	0.000	0.0	2	35.9	2	2.45	2	129.2	2	-9	9	-9	9	150.58	2	1153	2	2317.4	2	7.5849	2	-9	5	-9	-9	-9	-9	-9
104	2	3750.0	34.685	2	34.685	2	1.820	1.519	27.756	0.001	0.0	2	36.0	2	2.43	2	131.7	2	-9	9	-9	9	150.22	2	1161	2	2320.7	2	7.5876	2	2413	2	-9	-9	-9	-9	-9
103	2	4000.3	34.686	2	34.685	2	1.846	1.517	27.757	0.001	0.0	2	35.5	2	2.43	2	132.3	2	0.001	2	0.004	2	149.20	2	1152	2	2321.5	2	7.5866	2	2420	2	-9	-9	-9	-9	-9
102	2	3999.9	34.686	2	34.685	2	1.846	1.517	27.757	0.001	0.0	2	35.5	2	2.42	2	131.5	2	-9	9	-9	9	150.06	2	1164	2	2321.3	2	7.5839	2	2416	2	-9	-9	-9	-9	-9
101	2	4052.6	34.685	2	34.686	2	1.853	1.518	27.756	0.001	0.0	2	35.4	2	2.43	2	131.0	2	-9	9	-9	9	149.88	2	1155	2	2322.6	2	7.5833	2	2419	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 94 DATE 3/30/94 LATITUDE 22°29.9'S Btm Depth: 4073
CAST 3 LONGITUDE 102°59.9'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	10.5	36.325	2	36.323	2	24.730	24.728	24.426	0.035	0.0	2	0.1	2	0.18	2	0.8	2	1.954	2	1.055	2	208.80	2	316	2	2066.7	2	8.0610	2	2393	2	-9	73.0	4.1	0.024	0.007
335	2	20.4	36.320	2	36.318	2	24.665	24.661	24.442	0.041	0.0	2	0.1	2	0.19	2	1.2	2	-9	9	-9	9	209.00	2	-9	9	-9	9	8.0612	2	-9	9	-9	84.2	4.5	0.026	0.006
334	2	41.0	36.314	2	36.315	2	24.612	24.604	24.455	0.048	0.0	2	0.1	2	0.24	2	1.6	2	1.965	2	1.034	2	208.88	2	323	2	2064.6	2	8.0605	2	2395	2	-9	79.5	4.6	0.039	0.014
333	2	65.6	36.206	2	36.219	2	23.654	23.640	24.661	0.048	0.0	2	0.1	2	0.22	2	1.5	2	-9	9	-9	9	218.83	2	-9	9	-9	9	8.0568	2	-9	9	-9	80.2	4.8	0.027	0.008
332	3	99.6	36.112	2	36.108	2	22.322	22.302	24.977	0.046	0.0	2	0.1	2	0.20	2	1.3	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	74.5	4.2	0.067	0.029
331	2	133.6	35.858	2	35.857	2	21.003	20.977	25.153	0.040	0.0	2	0.1	2	0.14	2	1.7	2	2.331	2	1.211	2	224.99	2	334	2	2046.2	2	8.0487	2	2361	2	-9	74.5	4.1	0.104	0.051
330	2	171.6	35.732	2	35.731	2	20.274	20.242	25.256	0.032	0.0	2	0.1	2	0.14	2	1.2	2	-9	9	-9	9	219.92	2	344	2	2046.9	2	8.0356	2	2357	2	-9	-9	-9	0.153	0.167
329	3	193.9	35.616	2	35.615	2	19.625	19.589	25.339	0.030	0.1	2	0.2	2	0.21	2	1.3	2	2.351	2	1.233	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.121	0.141
328	3	220.7	35.405	2	35.391	2	18.521	18.482	25.463	0.027	0.1	2	0.9	2	0.29	2	1.6	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	0.075	0.096
327	2	248.2	35.077	2	35.066	2	16.667	16.627	25.662	0.024	0.0	2	3.1	2	0.40	2	2.0	2	-9	9	-9	9	205.10	2	-9	9	-9	9	7.9447	2	-9	9	-9	-9	-9	0.045	0.053
326	2	301.6	34.628	2	34.623	2	13.426	13.383	26.027	0.021	0.0	2	10.9	2	1.02	2	4.6	2	2.188	2	1.087	2	169.18	2	620	2	2109.2	2	7.8080	2	2286	2	-9	60.1	4.3	0.007	0.011
325	2	337.1	34.508	2	34.506	2	11.698	11.655	26.272	0.021	0.0	2	15.5	2	1.25	2	7.1	2	-9	9	-9	9	155.30	2	-9	9	-9	9	7.7371	2	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	400.9	34.448	2	34.445	2	9.381	9.336	26.632	0.020	0.0	2	25.0	2	1.92	2	14.6	2	0.900	2	0.446	2	117.25	2	1094	2	2177.7	2	7.5826	2	2279	3	-9	-9	-9	-9	-9
322	2	500.8	34.384	2	34.383	2	7.062	7.014	26.932	0.019	0.0	2	30.3	2	2.08	2	18.2	2	0.470	2	0.250	2	136.71	2	1155	2	2201.7	2	7.5620	2	2291	2	-9	-9	-9	-9	-9
321	2	599.8	34.334	2	34.334	2	5.954	5.902	27.039	0.017	0.0	2	30.4	2	2.19	2	19.1	2	-9	9	-9	9	173.88	2	1047	2	2202.3	2	7.6079	2	2285	3	-9	45.8	2.7	-9	-9
320	2	701.4	34.337	2	34.337	2	5.330	5.271	27.118	0.017	0.0	2	33.0	2	2.36	2	26.7	2	0.147	2	0.090	2	160.63	2	1112	2	2202.5	2	7.5812	2	2291	2	-9	-9	-9	-9	-9
319	2	806.5	34.375	2	34.373	2	4.749	4.684	27.216	0.015	0.0	2	35.9	2	2.55	2	40.1	2	0.030	2	0.023	2	139.26	2	1255	2	2229.9	2	7.5393	2	2302	2	-9	-9	-9	-9	-9
318	2	901.1	34.429	2	34.428	2	4.344	4.274	27.303	0.014	0.0	2	38.2	2	2.73	2	54.7	2	-9	9	-9	9	120.57	2	1345	2	2254.2	2	7.5094	2	2321	2	-9	-9	-9	-9	-9
317	2	998.9	34.478	2	34.477	2	4.007	3.932	27.378	0.011	0.0	2	38.0	2	2.74	2	67.3	2	0.001	2	-0.002	2	119.55	2	-9	9	-9	9	-9	9	-9	9	-9	47.1	2.6	-9	-9
316	2	1200.6	34.536	2	34.536	2	3.550	3.461	27.471	0.010	0.0	2	38.2	2	2.73	2	86.2	2	-0.001	2	-0.002	2	117.83	2	1350	2	-9	9	7.5186	2	2353	2	-9	-9	-9	-9	-9
315	2	1402.3	34.561	2	34.560	2	3.077	2.976	27.537	0.007	0.0	2	38.3	2	2.74	2	97.5	2	-9	9	-9	9	123.41	2	-9	9	-9	9	7.5234	2	-9	9	-9	-9	-9	-9	-9
314	2	1597.9	34.586	2	34.584	2	2.702	2.590	27.591	0.005	0.0	2	37.8	2	2.66	2	104.2	2	0.004	2	0.000	2	130.29	2	-9	9	2286.0	3	7.5351	2	-9	9	-9	-9	-9	-9	-9
313	2	1801.6	34.610	2	34.610	2	2.382	2.257	27.639	0.004	0.0	2	36.8	2	2.71	2	109.2	2	-9	9	-9	9	140.15	6	-9	9	-9	9	7.5530	2	-9	9	-9	-9	-9	-9	-9
312	2	1999.1	34.631	2	34.630	2	2.157	2.018	27.675	0.003	0.0	2	35.9	2	2.57	2	112.9	2	-9	9	-9	9	147.91	6	-9	9	-9	9	7.5654	2	-9	9	-9	-9	-9	-9	-9
311	2	2199.6	34.647	2	34.647	2	2.011	1.857	27.700	0.002	0.0	2	35.6	2	2.54	2	116.2	2	-9	9	-9	9	152.31	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	2400.9	34.660	2	34.659	2	1.908	1.738	27.719	0.002	0.0	2	35.3	2	2.51	2	118.4	2	-9	9	-9	9	155.82	2	-9	9	-9	9	7.5810	2	-9	9	-9	-9	-9	-9	-9
309	2	2602.6	34.668	2	34.666	2	1.853	1.666	27.731	0.001	0.0	2	35.3	2	2.19	4	120.4	2	-9	9	-9	9	156.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2793.5	34.673	2	34.672	2	1.822	1.617	27.739	0.001	0.0	2	35.1	2	2.45	2	122.5	2	-9	9	-9	9	156.32	2	-9	9	-9	9	7.5846	2	-9	9	-9	-9	-9	-9	-9
307	2	3000.9	34.678	2	34.677	2	1.801	1.577	27.746	0.001	0.0	2	36.0	2	2.52	2	125.4	2	-9	9	-9	9	154.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	3248.7	34.681	2	34.680	2	1.792	1.544	27.751	0.000	0.0	2	35.8	2	2.51	2	128.7	2	-9	9	-9	9	152.52	2	-9	9	-9	9	7.5864	2	-9	9	-9	-9	-9	-9	-9
305	2	3499.5	34.684	2	34.683	2	1.800	1.526	27.755	0.000	0.0	2	36.0	2	2.52	2	130.1	2	-9	9	-9	9	150.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3749.7	34.685	2	34.685	2	1.821	1.520	27.756	0.001	0.0	2	36.3	2	2.55	2	130.6	2	-9	9	-9	9	149.58	2	-9	9	-9	9	7.5875	2	-9	9	-9	-9	-9	-9	-9
303	2	4003.5	34.686	2	34.686	2	1.845	1.515	27.757	0.001	0.0	2	35.9	2	2.30	4	129.7	2	-9	9	-9	9	149.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	4002.8	34.686	2	34.684	2	1.845	1.516	27.757	0.001	0.0	2	35.7	2	2.52	2	129.7	2	-9	9	-9	9	149.74	2	-9	9	-9	9	7.5850	2	-9	9	-9	-9	-9	-9	-9
301	2	4066.0	34.686	2	34.685	2	1.852	1.516	27.757	0.001	0.0	2	36.0	2	2.57	2	129.6	2	-9	9	-9	9	149.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	95	DATE 3/30/94	LATITUDE	21°59.6'S	Btm Depth: 3955
CAST	1		LONGITUDE	102°59.4'W	

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.2	36.338	2	36.337	2	24.802	24.799	24.414	0.039	0.0	2	0.2	2	0.27	2	1.0	2	1.901	2	1.048	2	208.92	6	323	2	2068.6	2	8.0587	2	2395	6	-9	-9	-9	-9	-9
135	2	11.1	36.338	2	36.338	2	24.802	24.799	24.414	0.039	0.0	2	0.0	2	0.22	2	0.7	2	1.982	6	1.038	6	208.98	2	-9	9	-9	9	8.0568	2	-9	9	1.70	-9	-9	-9	-9
134	2	49.1	36.323	2	36.326	2	24.525	24.515	24.489	0.050	0.0	2	0.1	2	0.24	2	0.9	2	1.969	2	1.055	2	209.94	2	-9	9	-9	9	8.0571	2	-9	9	-9	-9	-9	-9	-9
133	2	73.4	36.077	2	36.078	2	22.856	22.841	24.797	0.051	0.0	2	0.1	2	0.26	2	0.9	2	2.149	2	1.151	2	225.07	2	-9	9	-9	9	8.0572	2	-9	9	-9	-9	-9	-9	-9
132	2	100.6	36.125	2	36.116	2	22.405	22.385	24.964	0.053	0.0	2	0.2	2	0.29	2	0.8	2	2.167	6	1.161	6	224.14	2	-9	9	-9	9	8.0514	2	-9	9	-9	-9	-9	-9	-9
131	2	125.0	35.959	2	35.964	2	21.367	21.343	25.130	0.046	0.0	2	0.1	2	0.25	2	0.7	2	2.216	2	1.174	2	224.43	2	-9	9	-9	9	8.0404	2	-9	9	-9	-9	-9	-9	-9
130	2	150.6	35.889	2	35.888	2	20.902	20.873	25.206	0.040	0.0	2	0.0	2	0.28	2	0.6	2	-9	1	-9	1	220.30	2	-9	9	-9	9	8.0297	2	-9	9	-9	-9	-9	-9	-9
129	2	199.6	35.581	2	35.564	2	19.366	19.330	25.381	0.031	0.2	2	0.5	2	0.36	2	0.7	2	2.284	2	1.208	2	212.52	2	-9	9	-9	9	7.9938	2	-9	9	-9	-9	-9	-9	-9
128	3	249.4	35.178	2	35.177	2	17.299	17.257	25.590	0.024	0.0	2	3.3	2	0.50	2	1.1	2	2.406	2	1.246	2	203.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	298.4	34.659	2	34.662	2	13.718	13.676	25.991	0.021	0.0	2	10.1	2	0.97	2	3.5	2	2.208	2	1.113	2	176.43	2	571	2	-9	9	7.8312	2	-9	9	-9	-9	-9	-9	-9
126	2	346.3	34.483	2	34.483	2	11.177	11.134	26.349	0.021	0.0	2	20.1	2	1.80	2	11.2	2	1.385	6	0.678	6	117.40	2	-9	9	-9	9	7.6390	2	-9	9	-9	-9	-9	-9	-9
125	2	402.1	34.479	2	34.478	2	9.621	9.575	26.617	0.019	0.0	2	26.4	2	2.19	2	16.3	2	0.766	2	0.382	2	90.27	2	-9	9	-9	9	7.5362	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.8	34.404	2	34.404	2	7.309	7.260	26.913	0.020	0.0	2	31.9	2	2.29	2	18.9	2	0.438	2	0.230	2	116.98	2	1241	2	-9	9	7.5357	2	-9	9	-9	-9	-9	-9	-9
122	2	600.2	34.342	2	34.342	2	5.979	5.926	27.042	0.018	0.0	2	31.2	2	2.14	2	19.4	2	0.300	2	0.179	2	165.59	2	-9	9	-9	9	7.5960	2	-9	9	-9	-9	-9	-9	-9
121	2	700.4	34.338	2	34.338	2	5.240	5.182	27.129	0.017	0.0	2	33.2	2	2.29	2	27.4	2	0.138	2	0.078	2	160.55	2	-9	9	-9	9	7.5793	2	-9	9	-9	-9	-9	-9	-9
120	2	801.0	34.381	2	34.381	2	4.762	4.698	27.219	0.017	0.0	2	36.7	2	2.51	2	40.8	2	0.020	2	0.016	2	134.18	2	-9	9	-9	9	7.5302	2	-9	9	-9	-9	-9	-9	-9
119	2	903.4	34.431	2	34.429	2	4.358	4.288	27.303	0.015	0.0	2	37.5	2	2.61	2	54.1	2	0.002	6	0.003	6	122.13	2	-9	9	-9	9	7.5146	2	-9	9	-9	-9	-9	-9	-9
118	2	995.8	34.494	2	34.496	2	4.174	4.098	27.373	0.014	0.0	2	39.6	2	2.74	2	68.6	2	0.002	2	0.001	2	104.32	2	1415	2	-9	9	7.4927	2	-9	9	-9	-9	-9	-9	-9
117	2	1100.8	34.517	2	34.517	2	3.897	3.813	27.421	0.012	0.0	2	39.4	2	2.72	2	77.7	2	0.006	2	0.002	2	107.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1193.7	34.533	2	34.532	2	3.676	3.587	27.456	0.010	0.0	2	38.4	2	2.67	2	83.7	2	0.003	2	0.000	2	112.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1300.2	34.549	2	34.549	2	3.436	3.341	27.493	0.010	0.0	2	38.7	2	2.71	2	91.0	2	0.004	2	0.002	2	109.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1396.8	34.562	2	34.563	2	3.208	3.106	27.526	0.008	0.0	2	38.9	2	2.73	2	96.1	2	0.000	2	0.001	2	111.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1497.6	34.574	2	34.574	2	3.009	2.901	27.554	0.008	0.0	2	38.9	2	2.75	2	100.2	2	-9	9	-9	9	113.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.5	34.586	2	34.586	2	2.787	2.673	27.584	0.006	0.0	2	38.1	2	2.70	2	104.8	2	-0.001	2	0.000	2	120.29	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1797.5	34.609	2	34.608	2	2.430	2.305	27.633	0.004	0.0	2	37.1	2	2.57	2	109.6	2	-9	9	-9	9	135.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1996.1	34.629	2	34.629	2	2.183	2.044	27.671	0.004	0.0	2	36.2	2	2.50	2	113.7	2	-9	9	-9	9	147.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2252.5	34.651	2	34.652	2	1.978	1.820	27.706	0.002	0.0	2	35.7	2	2.44	2	117.9	2	-0.001	2	-0.002	2	153.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2489.3	34.663	2	34.664	2	1.882	1.705	27.725	0.002	0.0	2	35.4	2	2.42	2	119.9	2	-9	9	-9	9	156.01	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2752.0	34.672	2	34.672	2	1.825	1.624	27.738	0.001	0.0	2	35.7	2	2.40	2	122.4	2	-9	9	-9	9	156.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3000.3	34.678	2	34.681	2	1.798	1.574	27.746	0.001	0.0	2	35.8	2	2.39	2	125.0	2	-9	9	-9	9	153.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3240.3	34.682	2	34.682	2	1.790	1.543	27.752	0.000	0.0	2	36.0	2	2.46	2	127.1	2	-9	9	-9	9	152.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3491.9	34.684	2	34.685	2	1.796	1.523	27.755	0.000	0.0	2	36.4	2	2.47	2	129.5	2	-9	9	-9	9	150.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3750.7	34.685	2	34.686	2	1.818	1.517	27.756	0.001	0.0	2	36.3	2	2.48	2	131.3	2	-9	9	-9	9	149.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3749.9	34.685	2	34.686	2	1.818	1.517	27.756	0.001	0.0	2	36.1	2	2.47	2	132.3	2	-9	9	-9	9	151.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3979.8	34.686	2	34.685	2	1.838	1.511	27.757	0.001	0.0	2	35.8	2	2.44	2	132.5	2	-9	9	-9	9	149.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 96 DATE 3/31/94 LATITUDE 21°30.0'S Btm Depth: 3973
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	36.266	2	36.264	2	24.557	24.555	24.433	0.036	0.0	2	0.1	2	0.28	2	1.0	2	-9	9	-9	9	210.26	2	332	2	2069.9	2	8.0533	2	2395	6	-9	-9	4.7	-9	-9
135	2	24.0	36.252	2	36.241	2	24.486	24.481	24.446	0.046	0.0	2	0.0	2	0.25	2	1.0	2	-9	9	-9	9	210.62	6	-9	9	-9	9	8.0521	2	-9	9	-9	-9	5.0	-9	-9
134	2	48.7	36.235	2	36.237	2	24.225	24.215	24.513	0.045	0.0	2	0.1	2	0.26	2	1.0	2	-9	9	-9	9	210.96	2	324	2	2069.0	2	8.0505	2	2390	2	-9	-9	4.8	-9	-9
133	2	74.1	36.054	2	36.053	2	22.756	22.741	24.808	0.047	0.0	2	0.0	2	0.25	2	0.9	2	-9	9	-9	9	225.12	2	-9	9	-9	9	8.0494	2	-9	9	-9	-9	5.5	-9	-9
132	3	97.7	35.986	2	-9	5	22.023	22.003	24.966	0.051	0.0	2	0.0	2	0.28	2	1.1	2	-9	9	-9	9	227.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	5.5	-9	-9
131	2	124.3	35.844	2	35.845	2	20.952	20.928	25.156	0.046	0.0	2	0.0	2	0.22	2	0.9	2	-9	9	-9	9	228.25	2	339	2	-9	9	8.0411	2	-9	9	-9	-9	4.3	-9	-9
130	2	150.1	35.808	2	35.809	2	20.597	20.568	25.226	0.039	0.0	2	0.1	2	0.25	2	0.8	2	-9	9	-9	9	223.24	2	-9	9	-9	9	8.0313	2	-9	9	-9	-9	-9	-9	-9
129	2	199.7	35.546	2	35.532	2	19.209	19.173	25.394	0.031	0.2	2	0.4	2	0.34	2	1.0	2	-9	9	-9	9	214.55	2	377	2	2065.5	2	7.9946	2	2343	2	-9	-9	-9	-9	-9
128	2	250.2	34.967	2	34.954	2	16.054	16.014	25.719	0.024	0.0	2	4.2	2	0.57	2	1.4	2	-9	9	-9	9	202.29	2	460	2	-9	9	7.9250	2	-9	9	-9	-9	-9	-9	-9
127	2	300.8	34.563	2	34.565	2	12.862	12.821	26.090	0.020	0.0	2	12.3	2	1.23	2	4.9	2	-9	9	-9	9	167.11	2	650	2	2115.0	2	7.7893	2	2280	2	-9	-9	3.6	-9	-9
126	2	350.4	34.503	2	34.503	2	10.918	10.875	26.411	0.021	0.0	2	21.6	2	2.08	2	13.2	2	-9	9	-9	9	98.61	2	-9	9	-9	9	7.5890	2	-9	9	-9	-9	-9	-9	-9
125	2	400.5	34.511	2	34.511	2	9.704	9.658	26.627	0.022	0.0	2	27.7	2	2.48	2	18.7	2	-9	9	-9	9	67.42	2	1406	2	2225.1	2	7.4896	2	2283	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.6	34.424	2	34.424	2	7.442	7.393	26.910	0.020	0.0	2	32.3	2	2.49	2	20.2	2	-9	9	-9	9	105.00	2	1337	2	2219.3	2	7.5097	2	2281	2	-9	-9	-9	-9	-9
122	2	600.9	34.363	2	34.363	2	6.089	6.036	27.045	0.017	0.0	2	32.4	2	2.30	2	21.8	2	-9	9	-9	9	147.41	2	1166	2	2203.5	2	7.5669	2	2289	2	-9	-9	3.5	-9	-9
121	2	701.0	34.378	2	34.379	2	5.460	5.401	27.135	0.017	0.0	2	35.6	2	2.55	2	31.7	2	-9	9	-9	9	128.62	2	1289	2	2224.0	2	7.5269	2	2293	2	-9	-9	-9	-9	-9
120	2	800.5	34.410	2	34.411	2	4.908	4.843	27.226	0.017	0.0	2	37.9	2	2.68	2	44.3	2	-9	9	-9	9	113.94	2	1379	2	2246.6	2	7.5012	2	-9	5	-9	-9	-9	-9	-9
119	2	901.0	34.459	2	34.460	2	4.484	4.413	27.312	0.015	0.0	2	39.7	2	2.77	2	58.5	2	-9	9	-9	9	106.66	2	1415	2	2264.2	2	7.4928	2	2329	2	-9	-9	-9	-9	-9
118	2	999.7	34.495	2	34.495	2	4.225	4.147	27.369	0.014	0.0	2	38.7	2	2.80	2	68.4	2	-9	9	-9	9	103.10	2	1421	2	2274.7	2	7.4905	2	2336	6	-9	-9	3.2	-9	-9
117	2	1100.6	34.521	2	34.521	2	3.958	3.874	27.418	0.010	0.0	2	39.2	2	2.84	2	77.7	2	-9	9	-9	9	100.12	2	-9	9	-9	9	7.4864	2	-9	9	-9	-9	-9	-9	-9
116	2	1199.9	34.535	2	34.537	2	3.716	3.626	27.454	0.010	0.0	2	39.0	2	2.85	2	83.9	2	-9	9	-9	9	100.48	2	-9	9	-9	9	7.4854	2	-9	9	-9	-9	-9	-9	-9
115	2	1299.7	34.547	2	34.547	2	3.479	3.383	27.488	0.010	0.0	2	39.0	2	2.81	2	89.1	2	-9	9	-9	9	104.02	2	-9	9	-9	9	7.4899	2	-9	9	-9	-9	-9	-9	-9
114	2	1398.3	34.559	2	34.560	2	3.233	3.131	27.521	0.008	0.0	2	38.6	2	2.77	2	93.7	2	-9	9	-9	9	110.79	2	-9	9	-9	9	7.5060	2	-9	9	-9	-9	-9	-9	-9
113	2	1500.1	34.573	2	34.573	2	2.990	2.882	27.555	0.007	0.0	2	38.4	2	2.75	2	98.7	2	-9	9	-9	9	115.67	6	-9	9	-9	9	7.5116	2	-9	9	-9	-9	-9	-9	-9
112	2	1599.1	34.585	2	34.585	2	2.771	2.657	27.585	0.006	0.0	2	37.6	2	2.70	2	102.3	2	-9	9	-9	9	122.66	2	-9	9	-9	9	7.5234	2	-9	9	-9	-9	-9	-9	-9
111	2	1801.0	34.609	2	34.608	2	2.439	2.313	27.633	0.005	0.0	2	37.0	2	2.63	2	108.0	2	-9	9	-9	9	133.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2000.1	34.630	2	34.630	2	2.179	2.040	27.672	0.003	0.0	2	35.8	2	2.52	2	111.0	2	-9	9	-9	9	146.82	6	-9	9	-9	9	7.5633	2	-9	9	-9	-9	-9	-9	-9
109	2	2251.3	34.652	2	34.652	2	1.971	1.814	27.707	0.002	0.0	2	35.3	2	2.47	2	115.7	2	-9	9	-9	9	155.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2499.2	34.664	2	34.665	2	1.874	1.696	27.726	0.002	0.0	2	34.8	2	2.44	2	118.6	2	-9	9	-9	9	155.71	2	-9	9	-9	9	7.5723	2	-9	9	-9	-9	-9	-9	-9
107	2	2747.9	34.673	2	34.672	2	1.819	1.619	27.739	0.001	0.0	2	34.8	2	2.46	2	121.2	2	-9	9	-9	9	153.63	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3000.5	34.678	2	34.678	2	1.794	1.571	27.747	0.000	0.0	2	34.8	2	2.46	2	124.2	2	-9	9	-9	9	153.90	2	-9	9	-9	9	7.5851	2	-9	9	-9	-9	2.1	-9	-9
105	2	3250.1	34.682	2	34.683	2	1.785	1.537	27.752	0.000	0.0	2	35.2	2	2.49	2	127.3	2	-9	9	-9	9	151.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3500.6	34.684	2	34.685	2	1.793	1.519	27.755	0.000	0.0	2	35.1	2	2.49	2	129.1	2	-9	9	-9	9	152.54	2	-9	9	-9	9	7.5860	2	-9	9	-9	-9	-9	-9	-9
103	2	3750.0	34.685	2	34.686	2	1.812	1.512	27.757	0.000	0.0	2	35.2	2	2.50	2	129.7	2	-9	9	-9	9	149.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3747.8	34.686	2	34.685	2	1.812	1.512	27.757	0.000	0.0	2	35.4	2	2.48	2	129.4	2	-9	9	-9	9	150.02	2	-9	9	-9	9	7.5858	2	-9	9	-9	-9	-9	-9	-9
101	2	4002.7	34.686	2	34.686	2	1.838	1.509	27.757	0.001	0.0	2	35.4	2	2.49	2	129.6	2	-9	9	-9	9	149.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 97 DATE 3/31/94 LATITUDE 20°59.9'S Btm Depth: 4086
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	36.258	2	36.257	2	24.376	24.374	24.482	0.034	0.0	2	0.2	2	0.24	2	0.9	2	1.952	2	1.048	2	209.96	2	329	2	2071.0	2	8.0535	2	2390	6	1.80	-9	-9	-9	-9
135	2	25.5	36.261	2	36.259	2	24.383	24.377	24.483	0.045	0.0	2	0.1	2	0.23	2	0.8	2	1.968	6	1.066	6	209.98	2	-9	9	-9	9	8.0534	2	-9	9	1.80	-9	-9	-9	-9
134	2	50.5	36.208	2	36.211	2	24.087	24.076	24.534	0.046	0.0	2	0.1	2	0.23	2	0.9	2	2.495	4	1.117	2	212.51	2	325	2	2069.1	2	8.0506	2	2369	2	-9	-9	-9	-9	-9
133	2	71.2	36.091	2	36.077	2	23.014	22.999	24.761	0.046	0.0	2	0.1	2	0.24	2	0.9	2	2.120	2	1.166	2	223.83	2	-9	9	-9	9	8.0504	2	-9	9	1.80	-9	-9	-9	-9
132	2	97.6	35.906	2	35.909	2	21.584	21.564	25.028	0.046	0.0	2	0.1	2	0.25	2	0.9	2	2.216	6	1.194	6	228.97	2	331	2	2057.7	2	-9	9	2343	2	1.80	-9	-9	-9	-9
131	2	126.5	35.857	2	35.856	2	20.916	20.892	25.176	0.043	0.0	2	0.1	2	0.23	2	0.9	2	2.207	2	1.187	2	225.72	2	-9	9	-9	9	8.0367	2	-9	9	-9	-9	-9	-9	-9
130	2	149.3	35.817	2	35.818	2	20.588	20.559	25.236	0.039	0.0	2	0.0	2	0.22	2	0.9	2	2.273	2	1.230	2	222.50	2	-9	9	-9	9	8.0316	2	-9	9	1.70	-9	-9	-9	-9
129	2	200.0	35.530	2	35.544	2	19.158	19.122	25.395	0.031	0.1	2	0.4	2	0.28	2	1.0	2	2.310	2	1.277	2	214.51	2	371	2	2065.4	3	7.9958	2	2280	2	1.40	-9	-9	-9	-9
128	2	251.0	34.943	2	34.935	2	15.861	15.822	25.745	0.024	0.0	2	4.8	2	0.58	2	1.7	2	2.386	6	1.215	6	199.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	299.2	34.554	2	34.546	2	12.765	12.725	26.102	0.021	0.0	2	13.6	2	1.25	2	6.1	2	1.944	2	0.991	2	155.15	2	694	2	2125.8	2	7.7637	2	2288	2	0.90	-9	-9	-9	-9
126	2	349.4	34.505	2	34.505	2	10.811	10.768	26.432	0.021	0.0	2	22.4	2	2.03	2	14.6	2	1.089	2	0.544	2	89.42	2	-9	9	-9	9	7.5671	2	-9	9	-9	-9	-9	-9	-9
125	2	402.1	34.494	2	34.493	2	9.221	9.177	26.693	0.021	0.0	2	29.1	2	2.36	2	19.0	2	0.478	6	0.242	6	72.11	2	1417	6	2226.4	2	7.4867	2	2283	2	0.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.5	34.406	2	34.404	2	7.109	7.061	26.943	0.019	0.0	2	32.3	2	2.31	2	19.8	2	0.280	2	0.150	2	119.08	6	1265	2	2213.6	2	7.5284	2	2284	2	0.60	-9	-9	-9	-9
122	2	599.6	34.350	2	34.349	2	5.947	5.894	27.052	0.017	0.0	2	32.0	2	2.20	2	20.4	2	0.180	2	0.105	2	159.96	6	1081	2	2194.9	2	7.5886	2	2295	3	0.90	-9	-9	-9	-9
121	2	699.2	34.361	2	34.362	2	5.272	5.214	27.144	0.016	0.0	2	35.1	2	2.39	2	30.5	2	0.052	2	0.027	2	142.87	6	1202	2	2217.2	3	7.5495	2	2316	2	0.60	-9	-9	-9	-9
120	2	798.7	34.435	2	34.434	2	4.934	4.869	27.242	0.016	0.0	2	38.9	2	2.69	2	48.6	2	0.008	6	0.002	6	102.64	2	1438	2	2254.4	2	7.4860	2	2325	3	-9	-9	-9	-9	-9
119	2	900.0	34.470	2	34.470	2	4.458	4.387	27.323	0.014	0.0	2	38.8	2	2.67	2	61.0	2	0.004	2	0.000	2	105.65	2	1414	2	2265.4	2	7.4946	2	2341	3	0.40	-9	-9	-9	-9
118	2	999.4	34.503	2	34.505	2	4.217	4.139	27.376	0.012	0.0	2	39.4	2	2.71	2	70.8	2	0.005	2	0.001	2	101.07	2	1432	2	2278.9	2	7.4901	2	-9	5	-9	-9	-9	-9	-9
117	2	1101.0	34.524	2	34.524	2	3.916	3.832	27.425	0.011	0.0	2	40.1	2	2.82	2	79.9	2	-0.001	2	-0.002	2	98.07	2	-9	9	-9	9	7.4842	2	-9	9	-9	-9	-9	-9	-9
116	2	1200.3	34.540	2	34.540	2	3.620	3.531	27.468	0.010	0.0	2	39.7	2	2.79	2	88.2	2	0.009	2	0.003	2	101.65	2	-9	9	-9	9	7.4902	2	-9	9	0.20	-9	-9	-9	-9
115	2	1399.6	34.566	2	34.566	2	3.187	3.086	27.531	0.008	0.0	2	39.7	2	2.78	2	100.7	2	0.000	2	-0.002	2	105.23	2	-9	9	-9	9	7.4949	2	-9	9	-9	-9	-9	-9	-9
114	2	1600.9	34.588	2	34.590	2	2.831	2.716	27.582	0.006	0.0	2	39.3	2	2.74	2	109.0	2	0.002	2	0.008	2	113.15	2	-9	9	-9	9	7.5080	2	-9	9	0.20	-9	-9	-9	-9
113	2	1799.2	34.608	2	34.607	2	2.501	2.374	27.627	0.005	0.0	2	38.0	2	2.62	2	112.9	2	-9	9	-9	9	126.85	2	-9	9	-9	9	7.5293	2	-9	9	-9	-9	-9	-9	-9
112	2	2000.0	34.627	2	34.627	2	2.215	2.076	27.667	0.003	0.0	2	36.7	2	2.51	2	113.1	2	0.007	2	-0.001	2	144.18	2	-9	9	-9	9	7.5606	2	-9	9	0.20	-9	-9	-9	-9
111	2	2201.8	34.647	2	34.646	2	2.017	1.863	27.700	0.002	0.1	2	35.8	2	2.48	2	116.4	2	-9	9	-9	9	151.19	2	-9	9	-9	9	7.5711	2	-9	9	-9	-9	-9	-9	-9
110	2	2400.1	34.660	2	34.659	2	1.908	1.739	27.720	0.002	0.0	2	35.6	2	2.47	2	118.8	2	-9	9	-9	9	154.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2603.7	34.668	2	34.669	2	1.849	1.662	27.732	0.001	0.0	2	35.4	2	2.47	2	122.2	2	-0.003	2	-0.002	2	155.36	2	-9	9	-9	9	7.5820	2	-9	9	0.20	-9	-9	-9	-9
108	2	2801.6	34.675	2	34.673	2	1.809	1.604	27.741	0.001	0.0	2	35.5	2	2.44	2	126.3	2	-9	9	-9	9	154.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2998.6	34.679	2	34.679	2	1.786	1.563	27.748	0.001	0.0	2	35.7	2	2.45	2	130.5	2	-9	9	-9	9	152.43	2	-9	9	-9	9	7.5827	2	-9	9	0.10	-9	-9	-9	-9
106	2	3247.5	34.683	2	34.683	2	1.776	1.529	27.753	0.000	0.0	2	35.9	2	2.47	2	131.5	2	0.005	2	-0.002	2	151.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3500.1	34.685	2	34.684	2	1.786	1.513	27.756	0.000	0.0	2	36.3	2	2.48	2	131.4	2	-9	9	-9	9	150.13	2	-9	9	-9	9	7.5863	2	-9	9	0.10	-9	-9	-9	-9
104	2	3728.2	34.686	2	34.685	2	1.804	1.506	27.757	0.000	0.0	2	36.4	2	2.50	2	132.3	2	-9	9	-9	9	152.29	2	-9	9	-9	9	-9	9	-9	9	0.10	-9	-9	-9	-9
103	2	4000.5	34.686	2	34.686	2	1.830	1.502	27.758	0.000	0.0	2	36.3	2	2.45	2	134.0	2	0.000	2	-0.002	2	149.03	2	-9	9	-9	9	7.5870	2	-9	9	-9	-9	-9	-9	-9
102	2	4001.9	34.686	2	34.686	2	1.830	1.502	27.758	0.000	0.0	2	36.5	2	2.46	2	135.0	2	-9	9	-9	9	150.14	2	-9	9	-9	9	-9	9	-9	9	0.10	-9	-9	-9	-9
101	2	4124.3	34.686	2	34.686	2	1.844	1.502	27.758	0.000	0.0	2	36.4	2	2.47	2	134.5	2	-0.001	2	0.000	2	149.35	2	-9	9	-9	9	7.5846	2	-9	9	0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 98 DATE 3/31/94 LATITUDE 20°30.1'S Btm Depth: 4057
CAST 3 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	10.9	36.406	2	36.403	2	24.526	24.524	24.549	0.040	0.0	2	0.1	2	0.25	2	1.6	2	-9	9	-9	9	209.81	2	314	2	2069.8	2	8.0618	2	2399	2	-9	69.6	5.3	0.031	0.008
335	2	23.4	36.400	2	36.398	2	24.426	24.421	24.575	0.049	0.0	2	0.0	2	0.28	2	1.1	2	-9	9	-9	9	209.95	2	-9	9	2071.0	2	8.0619	2	2398	2	-9	68.9	5.2	0.032	0.008
334	2	49.2	36.341	2	36.365	2	24.131	24.121	24.621	0.052	0.0	2	0.0	2	0.24	2	1.4	2	-9	9	-9	9	212.20	2	317	2	2068.8	2	8.0615	2	2395	2	-9	68.6	4.6	0.037	0.013
333	2	74.8	36.223	2	36.226	2	23.313	23.298	24.775	0.046	0.0	2	0.0	2	0.23	2	1.4	2	-9	9	-9	9	218.20	2	319	2	2066.5	2	8.0559	2	2392	2	-9	70.2	5.8	0.049	0.015
332	2	100.3	35.974	2	35.994	2	21.985	21.965	24.968	0.046	0.0	2	0.0	2	0.20	2	1.1	2	-9	9	-9	9	225.81	2	332	2	2061.2	2	8.0443	2	2372	2	-9	66.8	5.2	0.063	0.020
331	2	125.9	35.892	2	35.925	3	21.284	21.259	25.102	0.042	0.0	2	0.0	2	0.27	2	1.4	2	-9	9	-9	9	225.59	2	334	2	2060.5	2	8.0379	2	2364	2	-9	65.4	4.6	0.098	0.044
330	2	149.5	35.837	2	35.830	2	20.651	20.623	25.234	0.038	0.0	2	0.0	2	0.24	2	1.3	2	-9	9	-9	9	223.31	2	346	2	2061.8	2	8.0296	2	2362	2	-9	-9	-9	0.170	0.118
329	2	200.7	35.555	2	35.523	3	19.183	19.147	25.408	0.031	0.3	2	0.9	2	0.35	2	1.3	2	-9	9	-9	9	209.30	2	386	2	2070.3	2	7.9858	2	2339	2	-9	-9	-9	0.093	0.109
328	2	251.4	34.883	2	34.898	2	15.407	15.368	25.800	0.024	0.0	2	5.2	2	0.58	2	1.8	2	-9	9	-9	9	197.72	2	479	2	2077.4	2	-9	9	2305	2	-9	-9	-9	0.032	0.041
327	2	297.7	34.520	2	34.521	2	12.360	12.320	26.155	0.022	0.0	2	14.0	2	1.23	2	6.2	2	-9	9	-9	9	155.78	2	708	2	2127.4	2	7.7548	2	2277	2	-9	45.5	3.5	0.005	0.005
326	2	345.9	34.508	2	34.503	2	10.654	10.612	26.461	0.024	0.0	2	23.1	2	1.99	2	15.1	2	-9	9	-9	9	89.44	2	1164	2	2200.2	2	7.5619	2	2282	2	-9	-9	-9	-9	-9
325	2	403.0	34.492	2	34.492	2	8.962	8.919	26.733	0.024	0.0	2	30.1	2	2.36	2	20.4	2	-9	9	-9	9	69.85	2	1457	2	2232.3	2	7.4772	2	2283	2	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	499.8	34.400	2	34.401	2	7.043	6.996	26.947	0.021	0.0	2	32.2	2	2.28	2	19.5	2	-9	9	-9	9	123.45	2	1241	2	2210.5	2	7.5377	2	2285	2	-9	-9	-9	-9	-9
322	2	599.8	34.352	2	34.352	2	5.852	5.800	27.066	0.018	0.0	2	32.4	2	2.10	2	22.4	2	-9	9	-9	9	155.88	2	1127	2	2199.8	2	7.5793	2	2290	2	-9	44.3	2.8	-9	-9
321	2	701.0	34.404	2	34.403	2	5.409	5.350	27.162	0.017	0.0	2	37.3	2	2.48	2	36.9	2	-9	9	-9	9	113.87	6	1360	2	2237.6	2	7.5043	2	2299	2	-9	-9	-9	-9	-9
320	2	799.9	34.445	2	34.447	2	4.951	4.886	27.249	0.017	0.0	2	39.9	2	2.68	2	51.1	2	-9	9	-9	9	94.96	6	1483	2	2262.5	2	7.4724	2	2318	2	-9	-9	-9	-9	-9
319	2	898.9	34.476	2	34.475	2	4.577	4.506	27.315	0.015	0.0	2	39.9	2	2.73	2	61.9	2	-9	9	-9	9	94.29	2	1484	2	2274.4	2	7.4739	2	2336	2	-9	-9	-9	-9	-9
318	3	999.7	34.506	2	-9	5	4.220	4.142	27.378	0.014	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
317	2	1099.2	34.525	2	34.525	2	3.944	3.861	27.423	0.012	0.0	2	39.7	2	2.79	2	80.4	2	-9	9	-9	9	93.90	2	1494	2	2292.2	2	7.4737	2	2350	2	-9	-9	-9	-9	-9
316	2	1200.1	34.539	2	34.538	2	3.692	3.602	27.460	0.010	0.0	2	39.9	2	2.78	2	87.5	2	-9	9	-9	9	95.73	2	1501	2	2301.6	2	7.4766	2	2359	2	-9	-9	-9	-9	-9
315	2	1298.6	34.553	2	34.552	2	3.444	3.348	27.496	0.010	0.0	2	39.4	2	2.78	2	93.0	2	-9	9	-9	9	97.74	2	1478	2	2306.7	2	7.4807	2	2366	2	-9	-9	-9	-9	-9
314	2	1399.7	34.567	2	34.567	2	3.218	3.116	27.528	0.008	0.0	2	39.1	2	2.71	2	97.6	2	-9	9	-9	9	100.26	2	1475	2	2310.2	2	7.4857	2	2376	2	-9	-9	-9	-9	-9
313	2	1594.5	34.590	2	34.591	2	2.863	2.749	27.580	0.007	0.0	2	38.7	2	2.73	2	106.0	2	-9	9	-9	9	107.49	2	1422	2	2316.6	2	7.4957	2	2382	2	-9	-9	-9	-9	-9
312	2	1799.2	34.612	2	34.612	2	2.558	2.430	27.626	0.006	0.0	2	38.2	2	2.66	2	114.1	2	-9	9	-9	9	113.23	2	1398	2	2321.2	2	7.5097	2	2389	2	-9	-9	-9	-9	-9
311	2	1999.9	34.625	2	34.624	2	2.237	2.097	27.663	0.003	0.0	2	36.0	2	2.45	2	111.4	2	-9	9	-9	9	143.58	2	1227	2	2301.1	3	7.5577	2	2401	2	-9	-9	-9	-9	-9
310	2	2251.5	34.649	2	34.649	2	2.003	1.845	27.702	0.003	0.0	2	35.5	2	2.35	2	116.7	2	-9	9	-9	9	151.63	2	1190	2	2301.5	2	7.5731	2	2391	2	-9	-9	-9	-9	-9
309	2	2498.8	34.664	2	34.665	2	1.878	1.700	27.726	0.002	0.0	2	35.5	2	2.41	2	120.0	2	-9	9	-9	9	153.85	6	1167	2	2303.6	2	7.5793	2	2395	2	-9	-9	-9	-9	-9
308	2	2749.1	34.673	2	34.675	2	1.816	1.616	27.740	0.001	0.0	2	35.3	2	2.43	2	122.1	2	-9	9	-9	9	154.31	2	1164	2	2307.3	2	7.5831	2	2408	2	-9	-9	-9	-9	-9
307	2	3000.7	34.679	2	34.679	2	1.788	1.564	27.748	0.001	0.0	2	35.3	2	2.44	2	124.9	2	-9	9	-9	9	153.15	2	1156	2	2312.1	2	7.5859	2	-9	5	-9	-9	-9	-9	-9
306	2	3249.2	34.683	2	34.682	2	1.780	1.532	27.753	0.000	0.0	2	35.6	2	2.41	2	128.3	2	-9	9	-9	9	150.66	2	1164	2	2317.3	2	7.5848	2	2417	2	-9	-9	-9	-9	-9
305	2	3501.4	34.685	2	34.684	2	1.789	1.516	27.756	0.000	0.0	2	35.3	2	2.43	2	130.8	2	-9	9	-9	9	149.88	2	1156	2	2320.2	2	7.5869	2	2417	2	-9	-9	-9	-9	-9
304	2	3750.5	34.686	2	34.686	2	1.809	1.508	27.757	0.000	0.0	2	35.3	2	2.44	2	130.1	2	-9	9	-9	9	149.44	2	1163	2	2321.1	2	7.5862	2	2421	2	-9	-9	-9	-9	-9
303	2	4000.4	34.686	2	34.686	2	1.832	1.504	27.758	0.001	0.0	2	35.7	2	2.46	2	129.5	2	-9	9	-9	9	149.05	2	1150	2	2322.0	2	7.5875	2	2427	2	-9	-9	-9	-9	-9
302	2	4000.1	34.686	2	34.685	2	1.833	1.504	27.758	0.001	0.0	2	35.8	2	2.47	2	129.5	2	-9	9	-9	9	149.47	2	1161	2	2321.9	2	7.5858	2	2422	2	-9	-9	-9	-9	-9
301	2	4092.5	34.686	2	34.686	2	1.843	1.504	27.758	0.000	0.0	2	35.8	2	2.44	2	130.9	2	-9	9	-9	9	149.50	2	1158	2	2323.0	2	7.5854	2	2420	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 99 DATE 4/1/94 LATITUDE 20°0.0'S Btm Depth: 4234
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.1	36.310	2	36.309	2	24.486	24.483	24.489	0.040	0.0	2	0.1	2	0.28	2	1.5	2	2.013	2	1.058	2	210.16	2	322	2	2070.9	2	-9	1	2386	2	1.70	-9	-9	-9	-9
135	2	9.5	36.310	2	36.311	2	24.481	24.479	24.490	0.040	0.0	2	0.1	2	0.26	2	1.4	2	1.993	2	1.063	2	209.74	2	321	2	-9	9	8.0546	2	2396	2	-9	-9	-9	-9	-9
134	2	24.1	36.303	2	36.302	2	24.279	24.274	24.546	0.047	0.0	2	0.0	2	0.29	2	1.3	2	1.992	2	1.061	2	210.61	2	-9	9	-9	9	8.0540	2	-9	9	-9	-9	-9	-9	-9
133	2	48.9	36.289	2	36.230	3	24.135	24.125	24.580	0.051	0.0	2	0.0	2	0.27	2	1.1	2	2.061	2	1.085	2	213.49	2	325	2	-9	9	8.0520	2	-9	9	-9	-9	-9	-9	-9
132	2	75.8	36.044	2	36.062	2	22.560	22.545	24.857	0.050	0.0	2	0.1	2	0.26	2	1.2	2	2.204	6	1.169	6	220.31	2	-9	9	-9	9	8.0493	2	-9	9	-9	-9	-9	-9	-9
131	2	99.2	35.919	2	35.918	2	21.549	21.530	25.048	0.051	0.0	2	0.0	2	0.25	2	1.0	2	-9	1	-9	1	227.73	2	334	2	-9	9	8.0436	2	-9	9	-9	-9	-9	-9	-9
130	2	125.0	35.893	2	35.906	2	20.962	20.938	25.191	0.046	0.0	2	0.1	2	0.26	2	1.0	2	2.299	2	1.186	2	223.18	2	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
129	2	150.0	35.804	2	35.824	2	20.487	20.458	25.253	0.040	0.0	2	0.0	2	0.23	2	1.1	2	2.302	2	1.211	2	221.48	6	-9	9	-9	9	8.0273	2	-9	9	-9	-9	-9	-9	-9
128	2	199.1	35.425	2	35.445	2	18.562	18.527	25.466	0.030	0.2	2	0.9	2	0.36	2	1.1	2	2.425	2	1.244	2	211.10	2	-9	9	-9	9	7.9834	2	-9	9	-9	-9	-9	-9	-9
127	2	249.1	34.952	2	34.949	2	15.841	15.802	25.756	0.024	0.0	2	5.1	2	0.61	2	1.6	2	2.451	6	1.229	6	198.72	2	-9	9	-9	9	7.9175	2	-9	9	-9	-9	-9	-9	-9
126	2	300.5	34.507	2	34.504	2	12.204	12.164	26.175	0.022	0.0	2	15.2	2	1.38	2	7.0	2	1.909	2	0.942	2	149.26	2	-9	9	-9	9	7.7344	2	-9	9	-9	-9	-9	-9	-9
125	2	351.9	34.507	2	34.505	2	10.483	10.440	26.491	0.022	0.0	2	24.2	2	2.17	2	16.1	2	0.922	2	0.466	2	80.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.7	34.498	2	34.499	2	9.206	9.162	26.699	0.022	0.0	2	30.1	2	2.40	2	19.7	2	0.452	2	0.235	2	68.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	499.6	34.437	2	34.438	2	7.202	7.154	26.954	0.018	0.0	2	35.3	2	2.50	2	23.3	2	0.202	2	0.120	2	92.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.3	34.384	2	34.383	2	6.021	5.968	27.070	0.015	0.0	2	35.0	2	2.40	2	25.8	2	0.113	2	0.069	2	128.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	699.3	34.409	2	34.409	2	5.456	5.397	27.160	0.013	0.0	2	38.0	2	2.60	2	36.6	2	0.031	6	0.025	6	107.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	798.6	34.452	2	34.452	2	4.978	4.913	27.251	0.013	0.0	2	40.5	2	2.78	2	51.1	2	-0.003	2	-0.002	2	89.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	899.7	34.487	2	34.487	2	4.578	4.506	27.324	0.012	0.0	2	41.7	2	2.89	2	63.7	2	0.001	2	-0.002	2	83.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	1000.6	34.509	2	34.508	2	4.283	4.205	27.374	0.011	0.0	2	41.1	2	2.89	2	72.0	2	-0.003	2	0.001	2	87.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1098.6	34.525	2	34.525	2	3.954	3.870	27.422	0.010	0.0	2	41.0	2	2.84	2	79.7	2	0.000	2	0.004	2	92.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1199.2	34.541	2	34.542	2	3.663	3.574	27.464	0.010	0.0	2	41.0	2	2.87	2	87.3	2	-0.005	2	0.002	2	93.03	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1398.5	34.567	2	34.568	2	3.207	3.106	27.530	0.008	0.0	2	40.1	2	2.84	2	98.4	2	0.002	2	-0.002	2	98.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1600.3	34.595	2	34.595	2	2.775	2.661	27.592	0.006	0.0	2	39.4	2	2.78	2	109.1	2	-0.002	2	-0.002	2	107.94	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1800.1	34.616	2	34.615	2	2.485	2.359	27.634	0.004	0.0	2	38.8	2	2.70	2	115.4	2	-9	9	-9	9	117.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1991.2	34.627	2	34.626	2	2.206	2.067	27.667	0.003	0.0	2	36.8	2	2.52	2	111.9	2	-9	9	-9	9	143.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2246.1	34.651	2	34.650	2	1.991	1.834	27.705	0.002	0.0	2	36.2	2	2.49	2	117.4	2	0.005	2	-0.002	2	148.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2498.4	34.665	2	34.664	2	1.873	1.695	27.727	0.001	0.0	2	35.5	2	2.45	2	119.6	2	-9	9	-9	9	153.89	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2743.3	34.674	2	34.673	2	1.813	1.614	27.740	0.001	0.0	2	35.7	2	2.46	2	122.6	2	-9	9	-9	9	153.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2998.9	34.680	2	34.679	2	1.780	1.557	27.749	0.000	0.0	2	36.1	2	2.49	2	126.2	2	-0.003	2	0.003	2	150.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3250.0	34.683	2	34.681	2	1.773	1.526	27.754	0.000	0.0	2	35.1	2	2.49	2	128.7	2	-9	9	-9	9	149.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3499.8	34.685	2	34.683	2	1.783	1.509	27.756	0.000	0.0	2	36.0	2	2.49	2	129.8	2	-9	9	-9	9	149.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3748.2	34.686	2	34.686	2	1.800	1.500	27.758	0.000	0.0	2	36.0	2	2.49	2	130.2	2	-0.005	2	-0.002	2	149.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3998.7	34.686	2	34.686	2	1.825	1.497	27.758	0.000	0.0	2	36.0	2	2.49	2	130.2	2	-9	9	-9	9	148.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3999.1	34.686	2	34.686	2	1.825	1.497	27.758	0.000	0.0	2	36.0	2	2.49	2	130.4	2	-0.001	2	-0.002	2	149.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4222.0	34.686	2	34.687	2	1.849	1.496	27.759	0.000	0.0	2	36.7	2	2.50	2	130.6	2	-9	9	-9	9	149.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 100 DATE 4/1/94 LATITUDE 19°30.1'S Btm Depth: 4117
CAST 1 LONGITUDE 102°59.5'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.4	36.273	2	36.271	2	24.337	24.335	24.505	0.036	0.1	2	0.0	2	0.27	2	1.7	2	-9	9	-9	9	210.05	2	323	2	2071.1	2	8.0525	2	2392	6	-9	67.1	4.6	-9	-9
135	2	24.5	36.255	2	36.253	2	24.158	24.153	24.546	0.046	0.1	2	0.0	2	0.26	2	1.6	2	-9	9	-9	9	211.25	2	-9	9	-9	9	8.0517	2	-9	9	-9	62.6	4.6	-9	-9
134	2	49.5	36.250	2	36.250	2	24.077	24.067	24.568	0.051	0.1	2	0.0	2	0.26	2	1.6	2	-9	9	-9	9	211.33	2	324	2	2069.2	2	-9	9	2388	2	-9	64.4	4.6	-9	-9
133	2	75.7	36.006	2	36.014	2	22.375	22.360	24.881	0.049	0.0	2	0.0	2	0.25	2	1.4	2	-9	9	-9	9	226.23	2	-9	9	-9	9	8.0461	2	-9	9	-9	71.3	4.4	-9	-9
132	2	99.8	35.900	2	35.901	2	21.379	21.360	25.080	0.051	0.0	2	0.0	2	0.25	2	1.5	2	-9	9	-9	9	228.55	2	331	2	2059.9	2	8.0426	2	2373	2	-9	68.3	4.4	-9	-9
131	2	124.1	35.855	2	35.857	2	20.943	20.919	25.167	0.044	0.0	2	0.0	2	0.23	2	1.4	2	-9	9	-9	9	226.74	2	-9	9	-9	9	8.0374	2	-9	9	-9	65.4	4.4	-9	-9
130	2	149.2	35.804	2	35.805	2	20.498	20.470	25.250	0.039	0.0	2	0.0	2	0.20	2	1.3	2	-9	9	-9	9	222.57	2	-9	9	-9	9	8.0312	2	-9	9	-9	67.3	-9	-9	-9
129	2	199.7	35.491	2	35.461	3	18.936	18.900	25.422	0.031	0.1	2	0.5	2	0.28	2	1.3	2	-9	9	-9	9	213.79	2	376	2	2065.0	2	7.9891	2	2338	2	-9	58.4	-9	-9	-9
128	2	247.1	34.853	2	34.881	3	15.218	15.180	25.819	0.024	0.0	2	5.4	2	0.61	2	2.3	2	-9	9	-9	9	197.36	2	-9	9	-9	9	7.9052	2	-9	9	-9	-9	-9	-9	-9
127	2	297.7	34.516	2	34.507	2	12.275	12.235	26.168	0.020	0.0	2	14.9	2	1.38	2	7.9	2	-9	9	-9	9	148.51	2	735	2	2136.3	2	7.7335	2	2278	2	-9	47.7	4.3	-9	-9
126	2	297.5	34.512	2	34.503	2	12.236	12.197	26.172	0.020	0.0	2	15.5	2	1.41	2	8.2	2	-9	9	-9	9	146.85	2	-9	9	-9	9	7.7249	2	-9	9	-9	-9	-9	-9	-9
125	2	349.6	34.509	2	34.512	2	10.312	10.270	26.522	0.021	0.0	2	24.8	2	2.18	2	18.4	2	-9	9	-9	9	78.84	2	1260	2	2211.2	2	7.5317	2	2278	2	-9	46.5	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
123	2	501.2	34.416	2	34.415	2	6.894	6.847	26.979	0.019	0.0	2	33.3	2	2.35	2	24.5	2	-9	9	-9	9	112.25	6	1296	2	2219.1	2	7.5162	2	2285	2	-9	-9	-9	-9	-9
122	2	599.1	34.408	2	34.407	2	6.119	6.066	27.076	0.017	0.0	2	35.6	2	2.45	2	31.5	2	-9	9	-9	9	114.49	6	1323	2	2225.6	2	7.5150	2	2291	2	-9	42.6	4.1	-9	-9
121	2	699.4	34.439	2	34.439	2	5.599	5.539	27.166	0.017	0.0	2	38.9	2	2.71	2	45.3	2	-9	9	-9	9	91.10	6	1480	2	2252.2	2	7.4707	2	2300	2	-9	-9	-9	-9	-9
120	2	799.6	34.463	2	34.462	2	5.032	4.966	27.253	0.017	0.0	2	40.2	2	2.80	2	59.2	2	-9	9	-9	9	86.08	2	1530	2	2269.1	2	7.4610	2	2314	2	-9	41.9	-9	-9	-9
119	2	899.0	34.497	2	34.496	2	4.613	4.541	27.328	0.015	0.0	2	41.1	2	2.89	2	74.0	2	-9	9	-9	9	81.24	2	1565	2	2284.8	2	7.4529	2	2335	6	-9	-9	-9	-9	-9
118	3	993.1	34.513	2	-9	5	4.266	4.188	27.379	0.014	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	40.7	2.9	-9	-9
117	2	1098.1	34.532	2	34.532	2	3.900	3.817	27.433	0.012	0.0	2	41.1	2	2.93	2	82.2	2	-9	9	-9	9	85.22	2	-9	9	-9	9	7.4565	2	-9	9	-9	-9	-9	-9	-9
116	2	1198.5	34.547	2	34.546	2	3.564	3.476	27.479	0.010	0.0	2	40.6	2	2.85	2	88.9	2	-9	9	-9	9	95.38	2	-9	9	-9	9	7.4740	2	-9	9	-9	-9	-9	-9	-9
115	2	1298.3	34.561	2	34.560	2	3.316	3.221	27.514	0.010	0.0	2	40.5	2	2.84	2	94.4	2	-9	9	-9	9	98.99	2	-9	9	-9	9	7.4806	2	-9	9	-9	-9	-9	-9	-9
114	2	1398.9	34.574	2	34.574	2	3.094	2.994	27.546	0.008	0.0	2	40.0	2	2.82	2	100.3	2	-9	9	-9	9	101.38	2	-9	9	-9	9	7.4860	2	-9	9	-9	38.9	-9	-9	-9
113	2	1599.3	34.597	2	34.598	2	2.763	2.650	27.594	0.007	0.0	2	39.3	2	2.79	2	108.9	2	-9	9	-9	9	107.86	2	-9	9	-9	9	7.4958	2	-9	9	-9	-9	-9	-9	-9
112	2	1799.2	34.617	2	34.617	2	2.470	2.343	27.637	0.006	0.0	2	38.3	2	2.70	2	114.8	2	-9	9	-9	9	116.42	2	-9	9	-9	9	7.5156	2	-9	9	-9	-9	-9	-9	-9
111	2	1999.3	34.635	2	34.635	2	2.215	2.076	27.673	0.004	0.0	2	37.4	2	2.60	2	118.2	2	-9	9	-9	9	129.87	2	1297	2	-9	9	-9	9	-9	9	-9	38.0	-9	-9	-9
110	2	2250.6	34.651	2	34.652	2	2.000	1.842	27.705	0.002	0.0	2	36.2	2	2.49	2	118.5	2	-9	9	-9	9	145.67	2	-9	9	-9	9	7.5649	2	-9	9	-9	-9	-9	-9	-9
109	2	2498.8	34.664	2	34.664	2	1.881	1.703	27.726	0.002	0.0	2	34.9	2	2.44	2	119.3	2	-9	9	-9	9	153.04	2	1174	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2750.5	34.673	2	34.673	2	1.817	1.617	27.740	0.001	0.0	2	35.4	2	2.43	2	122.0	2	-9	9	-9	9	153.47	2	-9	9	-9	9	7.5804	2	-9	9	-9	-9	-9	-9	-9
107	2	2998.6	34.679	2	34.679	2	1.785	1.562	27.748	0.001	0.0	2	35.5	2	2.44	2	125.5	2	-9	9	-9	9	151.55	2	-9	9	-9	9	-9	9	-9	9	-9	37.2	2.8	-9	-9
106	2	3248.2	34.683	2	34.683	2	1.770	1.523	27.754	0.000	0.0	2	36.0	2	2.45	2	127.8	2	-9	9	-9	9	150.46	2	-9	9	-9	9	7.5847	2	-9	9	-9	-9	-9	-9	-9
105	2	3501.1	34.685	2	34.685	2	1.777	1.504	27.757	0.000	0.0	2	35.8	2	2.47	2	129.2	2	-9	9	-9	9	149.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3748.7	34.686	2	34.686	2	1.797	1.497	27.758	0.000	0.0	2	35.9	2	2.48	2	129.8	2	-9	9	-9	9	149.82	2	-9	9	-9	9	7.5859	2	-9	9	-9	-9	-9	-9	-9
103	2	3999.2	34.686	2	34.687	2	1.822	1.494	27.759	0.001	0.0	2	36.0	2	2.49	2	129.6	2	-9	9	-9	9	149.34	2	1159	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3997.4	34.686	2	34.686	2	1.822	1.494	27.759	0.001	0.0	2	35.7	2	2.49	2	129.8	2	-9	9	-9	9	150.01	2	1156	2	-9	9	7.5842	2	-9	9	-9	-9	-9	-9	-9
101	2	4173.3	34.686	2	34.686	2	1.837	1.489	27.759	0.001	0.0	2	35.8	2	2.51	2	129.7	2	-9	9	-9	9	149.60	2	-9	9	-9	9	-9	9	-9	9	-9	43.1	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

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WOCE P18
NOAA Ship *Discoverer*

STATION 101 DATE 4/1/94 LATITUDE 19°0.0'S Btm Depth: 4085
CAST 3 LONGITUDE 103°0.1'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	3	10.1	36.313	2	-9	5	24.361	24.359	24.529	0.038	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
335	2	24.0	36.342	2	36.335	2	24.253	24.248	24.584	0.048	0.0	2	0.2	2	0.27	2	1.0	2	2.010	2	1.071	2	210.76	2	-9	9	2072.1	2	8.0583	2	2397	6	1.70	-9	-9	0.033	0.007
334	2	49.6	36.406	2	36.393	2	24.133	24.123	24.670	0.054	0.0	2	0.1	2	0.28	2	1.0	2	2.021	2	1.066	2	213.02	2	310	2	2066.9	2	8.0669	2	2398	2	1.70	-9	-9	0.035	0.012
333	2	75.3	36.392	2	36.425	3	23.724	23.708	24.782	0.050	0.0	2	0.1	2	0.26	2	1.1	2	2.016	2	1.100	2	213.21	2	-9	9	2064.3	2	8.0726	2	2401	2	1.90	-9	-9	0.049	0.017
332	2	99.7	36.232	2	36.233	2	22.409	22.389	25.044	0.049	0.0	2	0.1	2	0.26	2	1.0	2	2.147	2	1.127	2	218.84	2	320	2	2064.3	2	8.0554	2	2385	2	1.70	-9	-9	0.073	0.031
331	2	123.7	36.033	2	36.042	2	21.457	21.433	25.162	0.048	0.0	2	0.1	2	0.24	2	0.9	2	2.207	2	1.164	2	217.47	2	-9	9	2065.4	2	8.0375	2	2375	2	1.70	-9	-9	-9	-9
330	2	149.5	35.838	2	35.829	2	20.573	20.544	25.256	0.044	0.0	2	0.1	2	0.25	2	0.7	2	2.314	2	1.201	2	220.94	2	-9	9	2062.9	2	8.0257	2	2361	2	1.70	-9	-9	0.183	0.179
329	2	200.5	35.579	2	35.575	2	19.318	19.281	25.391	0.035	0.2	2	0.9	2	0.34	2	0.9	2	2.385	6	1.259	2	210.70	2	377	2	2070.0	2	7.9915	2	2343	2	1.50	-9	-9	0.073	0.085
328	2	246.3	35.023	2	35.020	2	16.087	16.048	25.754	0.024	0.0	2	5.0	2	0.59	2	1.7	2	2.341	2	1.204	2	194.79	2	-9	9	2078.1	2	7.9156	2	2309	2	-9	-9	-9	0.026	0.026
327	2	298.9	34.596	2	34.602	2	12.632	12.592	26.160	0.022	0.0	2	12.8	2	1.17	2	5.2	2	-9	1	-9	1	161.86	2	665	2	2118.7	2	7.7832	2	2290	2	-9	-9	-9	0.003	0.003
326	2	347.3	34.497	2	34.496	2	10.495	10.453	26.481	0.023	0.0	2	22.1	2	1.93	2	12.6	2	-9	1	-9	1	110.45	2	1041	2	2183.3	2	7.6084	2	2279	2	1.40	-9	-9	-9	-9
325	2	348.4	34.496	2	34.497	2	10.485	10.444	26.482	0.023	0.0	2	22.2	2	1.93	2	12.6	2	0.964	6	0.484	6	109.28	2	1038	2	2182.6	2	7.6089	2	2286	2	1.10	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	0.70	-9	-9	-9	-9
323	2	500.3	34.396	2	34.395	2	6.743	6.696	26.984	0.020	0.0	2	32.7	2	2.32	2	20.5	2	0.188	2	0.106	2	128.61	2	1223	2	2209.2	3	7.5426	2	2281	2	0.80	-9	-9	-9	-9
322	2	598.9	34.408	2	34.408	2	5.973	5.921	27.095	0.020	0.0	2	36.1	2	2.52	2	29.8	2	-0.008	2	-0.002	4	113.59	2	1343	2	2229.0	2	7.5113	2	2295	2	0.60	-9	-9	-9	-9
321	2	698.1	34.442	2	34.443	2	5.470	5.410	27.184	0.019	0.0	2	39.0	2	2.74	2	42.6	2	0.002	2	0.001	2	90.97	2	1496	2	2254.5	2	7.4710	2	2306	2	0.40	-9	-9	-9	-9
320	2	800.1	34.474	2	34.476	2	4.987	4.922	27.268	0.018	0.0	2	40.5	2	2.84	2	54.9	2	0.001	2	-0.001	6	80.30	2	1557	2	2274.2	2	7.4536	2	2326	2	0.30	-9	-9	-9	-9
319	2	897.5	34.495	2	34.496	2	4.623	4.551	27.326	0.016	0.0	2	40.8	2	2.91	2	64.9	2	0.008	2	-0.002	2	78.30	6	1590	2	2286.8	2	7.4461	2	2335	2	0.20	-9	-9	-9	-9
318	2	997.7	34.516	2	34.516	2	4.306	4.228	27.377	0.016	0.0	2	41.7	2	2.98	2	74.3	2	0.007	2	-0.002	2	73.80	2	1633	2	2303.1	2	7.4375	2	2335	6	0.10	-9	-9	-9	-9
317	2	1098.9	34.532	2	34.533	2	3.995	3.911	27.423	0.015	0.0	2	41.6	2	2.91	2	82.3	2	0.275	4	0.186	4	77.36	2	1611	2	2305.1	2	7.4432	2	2352	2	0.10	-9	-9	-9	-9
316	2	1201.1	34.545	2	34.545	2	3.661	3.571	27.468	0.013	0.0	2	40.7	2	2.86	2	88.5	2	-0.004	2	0.000	2	87.44	2	1546	2	2307.7	2	7.4612	2	2358	2	0.10	-9	-9	-9	-9
315	2	1299.6	34.559	2	34.558	2	3.375	3.280	27.507	0.010	0.0	2	39.9	2	2.82	2	94.1	2	-0.003	2	0.002	2	95.14	2	1498	2	2308.8	2	7.4759	2	2365	2	0.20	-9	-9	-9	-9
314	2	1399.5	34.572	2	34.559	4	3.137	3.036	27.540	0.009	0.0	2	39.5	2	2.79	2	99.6	2	-9	1	-9	1	99.67	2	1479	2	2315.7	2	7.4838	2	2369	2	0.30	-9	-9	-9	-9
313	2	1599.6	34.596	2	34.596	2	2.786	2.672	27.592	0.009	0.0	2	38.9	2	2.75	2	108.8	2	-0.005	2	-0.002	2	104.11	2	1442	2	2321.2	2	7.4951	2	2382	2	0.10	-9	-9	-9	-9
312	2	1799.7	34.617	2	34.617	2	2.474	2.348	27.636	0.007	0.0	2	38.2	2	2.69	2	115.0	2	-9	9	-9	9	115.82	2	1380	2	2321.3	2	7.5146	2	2395	2	0.10	-9	-9	-9	-9
311	2	2000.6	34.634	2	34.635	2	2.231	2.090	27.671	0.005	0.0	2	37.4	2	2.60	2	118.5	2	-9	9	-9	9	128.00	6	1306	2	2318.3	3	7.5357	2	2391	2	0.10	-9	-9	-9	-9
310	2	2247.9	34.652	2	34.652	2	2.008	1.850	27.705	0.004	0.0	2	36.1	2	2.50	2	120.4	2	-0.001	2	-0.001	2	141.62	2	1230	2	2312.0	2	7.5594	2	2398	2	0.20	-9	-9	-9	-9
309	2	2497.8	34.664	2	34.665	2	1.880	1.702	27.726	0.003	0.0	2	35.8	2	2.45	2	121.8	2	-9	9	-9	9	150.26	2	1178	2	2308.5	2	7.5748	2	2401	2	0.20	-9	-9	-9	-9
308	2	2742.3	34.673	2	34.674	2	1.818	1.618	27.739	0.002	0.0	2	35.5	2	2.44	2	125.1	2	-9	9	-9	9	151.34	2	1171	2	2312.4	2	7.5797	2	2408	2	0.20	-9	-9	-9	-9
307	2	2998.5	34.679	2	34.678	2	1.786	1.563	27.748	0.002	0.0	2	35.6	2	2.46	2	128.4	2	-0.003	2	0.002	2	149.58	2	1170	2	2318.4	2	7.5820	2	2408	2	0.20	-9	-9	-9	-9
306	2	3243.7	34.682	2	34.682	2	1.773	1.526	27.753	0.002	0.0	2	35.6	2	2.46	2	129.1	2	-9	9	-9	9	148.64	2	1170	2	2321.9	2	7.5818	2	2414	2	0.20	-9	-9	-9	-9
305	2	3499.5	34.685	2	34.684	2	1.774	1.501	27.757	0.001	0.0	2	35.5	2	2.46	2	128.5	2	-9	9	-9	9	149.58	6	1164	2	2321.9	2	7.5846	2	2419	2	0.20	-9	-9	-9	-9
304	2	3747.1	34.686	2	34.686	2	1.789	1.489	27.759	0.001	0.0	2	35.9	2	2.47	2	127.9	2	-0.001	2	0.002	2	149.30	2	1163	2	2322.0	2	7.5836	2	2414	2	0.10	-9	-9	-9	-9
303	2	3999.2	34.686	2	34.686	2	1.813	1.485	27.760	0.002	0.0	2	35.7	2	2.47	2	127.4	2	-9	9	-9	9	148.75	2	1154	2	2322.8	2	7.5873	2	2416	2	-9	-9	-9	-9	-9
302	2	4000.0	34.686	2	34.687	2	1.813	1.485	27.759	0.002	0.0	2	35.4	2	2.46	2	128.4	2	-0.002	2	0.007	2	149.31	2	1147	2	2323.8	2	7.5843	2	-9	5	0.10	-9	-9	-9	-9
301	2	4142.4	34.686	2	34.686	2	1.829	1.485	27.759	0.002	0.0	2	35.2	2	2.46	2	129.5	2	-9	9	-9	9	148.42	2	1152	2	2321.5	2	7.5834	2	2417	2	0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 102 DATE 4/2/94 LATITUDE 18°29.7'S Btm Depth: 4058
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	36.410	2	36.421	2	24.490	24.488	24.563	0.046	0.0	2	0.0	2	0.30	2	1.1	2	-9	9	-9	9	209.50	6	311	2	2069.7	2	-9	1	2404	2	1.70	-9	5.0	-9	-9
135	2	24.9	36.386	2	36.387	2	24.305	24.300	24.601	0.055	0.0	2	0.1	2	0.29	2	1.0	2	-9	9	-9	9	210.16	2	-9	9	-9	9	8.0650	2	-9	9	-9	68.1	4.6	-9	-9
134	2	44.2	36.372	2	36.376	2	24.138	24.128	24.643	0.057	0.0	2	0.1	2	0.29	2	0.8	2	-9	9	-9	9	212.07	2	312	2	2067.4	2	8.0647	2	2397	2	-9	71.2	4.9	-9	-9
133	2	72.6	36.390	2	36.398	2	23.800	23.785	24.758	0.052	0.0	2	0.1	2	0.26	2	0.9	2	-9	9	-9	9	213.59	2	-9	9	-9	9	8.0682	2	-9	9	-9	65.4	4.8	-9	-9
132	2	99.4	36.246	2	36.257	2	22.615	22.595	24.996	0.052	0.0	2	0.3	2	0.26	2	0.6	2	-9	9	-9	9	220.48	2	318	2	2064.7	2	8.0606	2	2393	2	-9	64.0	4.8	-9	-9
131	2	124.4	36.048	2	36.062	2	21.516	21.492	25.156	0.048	0.0	2	0.0	2	0.27	2	0.8	2	-9	9	-9	9	219.23	2	-9	9	-9	9	8.0415	2	-9	9	-9	69.1	4.5	-9	-9
130	2	148.4	35.892	2	35.870	2	20.810	20.782	25.233	0.044	0.0	2	0.1	2	0.28	2	0.7	2	-9	9	-9	9	219.46	2	-9	9	-9	9	8.0248	2	-9	9	-9	-9	-9	-9	-9
129	2	201.8	35.681	2	35.681	2	19.884	19.847	25.322	0.028	0.1	2	0.3	2	0.32	2	0.7	2	-9	9	-9	9	215.15	2	363	2	2067.5	2	8.0051	2	2351	2	-9	-9	-9	-9	-9
128	3	249.7	35.003	2	34.981	2	15.925	15.885	25.776	0.022	0.0	2	5.0	2	0.61	2	1.5	2	-9	9	-9	9	193.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	298.0	34.582	2	34.589	2	12.297	12.257	26.215	0.021	0.0	2	14.6	2	1.36	2	6.5	2	-9	9	-9	9	148.63	2	724	2	2134.4	2	7.7456	2	2281	2	-9	44.6	3.5	-9	-9
126	2	349.6	34.497	2	34.498	2	10.254	10.212	26.523	0.022	0.0	2	23.3	2	2.02	2	13.5	2	-9	9	-9	9	102.48	2	-9	9	-9	9	7.5863	2	-9	9	-9	-9	-9	-9	-9
125	2	399.6	34.485	2	34.484	2	8.594	8.551	26.786	0.022	0.0	2	31.3	2	2.46	2	20.0	2	-9	9	-9	9	73.04	2	1442	2	2232.0	2	7.4789	2	2285	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	498.8	34.450	2	34.451	2	7.007	6.960	26.991	0.021	0.0	2	35.9	2	2.55	2	25.1	2	-9	9	-9	9	91.19	2	1422	2	2235.5	2	7.4830	2	2286	2	-9	-9	-9	-9	-9
122	2	598.2	34.435	2	34.435	2	6.058	6.005	27.106	0.020	0.0	2	38.2	2	2.64	2	32.2	2	-9	9	-9	9	95.14	2	1437	2	2242.7	2	7.4810	2	2295	2	-9	41.9	2.5	-9	-9
121	2	698.3	34.457	2	34.458	2	5.539	5.480	27.188	0.019	0.0	2	40.2	2	2.82	2	43.8	2	-9	9	-9	9	80.36	2	1553	2	2264.3	2	7.4515	2	2306	2	-9	-9	-9	-9	-9
120	2	800.2	34.480	2	34.482	2	5.069	5.003	27.263	0.018	0.0	2	41.7	2	2.91	2	55.3	2	-9	9	-9	9	74.01	2	1602	6	2279.8	2	7.4401	2	2321	2	-9	-9	-9	-9	-9
119	2	900.8	34.505	2	34.504	2	4.627	4.555	27.333	0.017	0.0	2	42.0	2	2.97	2	67.0	2	-9	9	-9	9	71.29	2	1647	2	2294.9	2	7.4342	2	2331	2	-9	-9	-9	-9	-9
118	2	999.5	34.521	2	34.520	2	4.266	4.188	27.385	0.016	0.0	2	42.1	2	2.97	2	75.9	2	-9	9	-9	9	73.66	2	1641	2	2301.7	2	7.4369	2	2344	6	-9	34.3	-9	-9	-9
117	2	1097.7	34.534	2	34.534	2	3.926	3.843	27.431	0.015	0.0	2	41.2	2	2.91	2	83.1	2	-9	9	-9	9	87.21	2	-9	9	-9	9	7.4558	2	-9	9	-9	-9	-9	-9	-9
116	2	1199.1	34.548	2	34.547	2	3.625	3.536	27.474	0.012	0.0	2	40.8	2	2.91	2	90.6	2	-9	9	-9	9	87.80	2	-9	9	-9	9	7.4602	2	-9	9	-9	-9	-9	-9	-9
115	2	1292.6	34.560	2	34.561	2	3.386	3.291	27.507	0.012	0.0	2	41.0	2	2.89	2	96.8	2	-9	9	-9	9	90.50	2	-9	9	-9	9	7.4662	2	-9	9	-9	-9	-9	-9	-9
114	2	1399.3	34.576	2	34.575	2	3.128	3.027	27.544	0.011	0.0	2	40.2	2	2.87	2	102.6	2	-9	9	-9	9	94.12	2	-9	9	-9	9	7.4739	2	-9	9	-9	-9	-9	-9	-9
113	2	1600.1	34.600	2	34.600	2	2.770	2.657	27.596	0.010	0.0	2	39.9	2	2.84	2	111.9	2	-9	9	-9	9	101.53	2	-9	9	-9	9	7.4874	2	-9	9	-9	-9	-9	-9	-9
112	2	1800.5	34.619	2	34.619	2	2.461	2.334	27.639	0.008	0.0	2	38.1	2	2.73	2	117.8	2	-9	9	-9	9	115.10	2	-9	9	-9	9	7.5128	2	-9	9	-9	-9	-9	-9	-9
111	2	1984.9	34.635	2	34.635	2	2.217	2.079	27.673	0.006	0.0	2	37.1	2	2.63	2	120.8	2	-9	9	-9	9	128.72	6	-9	9	-9	9	7.5362	2	-9	9	-9	-9	-9	-9	-9
110	2	2248.9	34.655	2	34.654	2	1.976	1.818	27.709	0.004	0.0	2	36.4	2	2.52	2	122.1	2	-9	9	-9	9	143.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2500.8	34.666	2	34.668	2	1.865	1.687	27.728	0.003	0.0	2	36.0	2	2.45	2	122.7	2	-9	9	-9	9	151.10	6	-9	9	-9	9	7.5767	2	-9	9	-9	-9	-9	-9	-9
108	2	2749.3	34.675	2	34.674	2	1.804	1.605	27.742	0.003	0.0	2	35.8	2	2.48	2	126.6	2	-9	9	-9	9	150.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2982.1	34.680	2	34.679	2	1.781	1.559	27.749	0.002	0.0	2	36.0	2	2.50	2	131.7	2	-9	9	-9	9	148.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3248.7	34.683	2	34.681	2	1.775	1.527	27.753	0.002	0.0	2	35.9	2	2.47	2	132.0	2	-9	9	-9	9	147.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3497.9	34.685	2	34.685	2	1.777	1.504	27.757	0.002	0.0	2	36.1	2	2.50	2	131.2	2	-9	9	-9	9	149.25	2	-9	9	-9	9	7.5843	2	-9	9	-9	-9	-9	-9	-9
104	2	3746.9	34.686	2	34.686	2	1.790	1.490	27.759	0.002	0.0	2	35.8	2	2.49	2	130.6	2	-9	9	-9	9	149.75	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3999.5	34.686	2	34.686	2	1.813	1.486	27.759	0.002	0.0	2	35.6	2	2.48	2	131.6	2	-9	9	-9	9	148.67	2	-9	9	-9	9	7.5863	2	-9	9	-9	-9	-9	-9	-9
102	2	3998.5	34.686	2	34.686	2	1.813	1.485	27.759	0.002	0.0	2	35.6	2	2.49	2	131.9	2	-9	9	-9	9	150.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4104.5	34.686	2	34.685	2	1.824	1.485	27.759	0.002	0.0	2	35.8	2	2.46	2	131.1	2	-9	9	-9	9	149.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 103 DATE 4/2/94 LATITUDE 17°59.9'S Btm Depth: 4184
CAST 1 LONGITUDE 103°0.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	36.366	2	36.365	2	24.341	24.339	24.575	0.042	0.0	2	0.1	2	0.28	2	2.7	2	1.995	2	1.064	2	209.81	2	313	2	2066.0	2	8.0680	2	2405	6	1.70	-9	-9	-9	-9
135	2	9.3	36.367	2	36.366	2	24.348	24.346	24.573	0.042	0.0	2	0.1	2	0.28	2	2.5	2	2.000	6	1.066	6	200.03	2	-9	9	-9	9	8.0712	2	-9	9	-9	-9	-9	-9	-9
134	2	24.4	36.352	2	36.350	2	24.204	24.199	24.606	0.052	0.0	2	0.0	2	0.28	2	2.6	2	2.012	2	1.071	2	210.72	2	-9	9	-9	9	8.0685	2	-9	9	-9	-9	-9	-9	-9
133	2	48.1	36.347	2	36.346	2	24.113	24.103	24.631	0.052	0.0	2	0.0	2	0.28	2	2.5	2	2.023	6	1.082	6	210.72	2	-9	9	-9	9	8.0677	2	-9	9	-9	-9	-9	-9	-9
132	2	73.4	36.226	2	-9	5	22.937	22.922	24.886	0.051	0.0	2	0.0	2	0.28	2	2.2	2	2.222	2	1.172	2	220.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	2	97.2	36.221	2	36.232	2	22.368	22.349	25.047	0.047	0.0	2	0.1	2	0.28	2	1.8	2	2.169	6	1.148	6	220.21	6	-9	9	-9	9	8.0577	2	-9	9	-9	-9	-9	-9	-9
130	2	125.2	36.095	2	36.091	2	21.738	21.713	25.130	0.045	0.0	2	0.3	2	0.28	2	2.2	2	2.229	2	1.166	2	218.65	2	-9	9	-9	9	8.0413	2	-9	9	-9	-9	-9	-9	-9
129	2	149.4	35.892	2	35.899	2	20.808	20.779	25.233	0.040	0.0	2	0.1	2	0.28	2	1.7	2	2.287	2	1.199	2	219.81	2	-9	9	-9	9	8.0298	2	-9	9	-9	-9	-9	-9	-9
128	3	200.9	35.547	2	35.572	2	19.065	19.029	25.432	0.026	0.1	2	1.5	2	0.40	2	1.9	2	2.372	6	1.211	6	205.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	249.4	34.984	2	35.002	2	15.790	15.751	25.792	0.022	0.0	2	5.6	2	0.65	2	2.9	2	2.353	2	1.194	2	189.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	300.3	34.546	2	34.546	2	12.162	12.123	26.213	0.022	0.0	2	15.2	2	1.43	2	8.3	2	1.771	2	0.900	2	142.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	3	337.5	34.539	2	34.539	2	10.429	10.389	26.525	0.021	0.0	2	23.9	2	2.14	2	16.6	2	0.684	6	0.352	6	80.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	397.9	34.482	2	34.482	2	8.635	8.593	26.777	0.023	0.0	2	30.7	2	2.40	2	21.0	2	0.306	2	0.159	2	74.31	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	498.2	34.455	2	34.454	2	7.036	6.989	26.991	0.021	0.0	2	35.4	2	2.50	2	26.7	2	0.089	2	0.058	2	86.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	600.5	34.441	2	34.440	2	6.137	6.083	27.100	0.019	0.0	2	38.0	2	2.63	2	33.6	2	0.023	6	0.013	6	89.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	700.9	34.460	2	34.459	2	5.511	5.451	27.194	0.018	0.0	2	40.3	2	2.79	2	45.3	2	0.001	2	0.002	2	77.86	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	799.6	34.485	2	34.484	2	5.072	5.006	27.266	0.017	0.0	2	41.4	2	2.89	2	56.9	2	0.242	4	0.011	4	69.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	900.0	34.507	2	34.507	2	4.652	4.580	27.332	0.017	0.0	2	42.7	2	2.96	2	70.1	2	-0.002	2	-0.002	2	65.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	999.8	34.522	2	34.521	2	4.241	4.163	27.389	0.015	0.0	2	42.1	2	2.95	2	78.5	2	-0.002	2	0.000	2	73.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1099.0	34.533	2	34.533	2	3.917	3.834	27.432	0.012	0.0	2	40.7	2	2.86	2	84.5	2	0.038	4	0.011	4	85.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1201.1	34.548	2	34.548	2	3.601	3.511	27.476	0.011	0.0	2	39.9	2	2.84	2	92.5	2	-0.003	2	0.001	2	90.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1402.1	34.578	2	34.579	2	3.080	2.979	27.550	0.010	0.0	2	39.8	2	2.83	2	105.8	2	0.131	4	0.004	2	95.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1600.7	34.603	2	34.603	2	2.729	2.616	27.602	0.008	0.0	2	39.5	2	2.79	2	114.0	2	-9	9	-9	9	102.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1800.9	34.622	2	34.622	2	2.448	2.322	27.643	0.007	0.0	2	38.5	2	2.72	2	119.6	2	-9	9	-9	9	112.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1999.1	34.639	2	34.638	2	2.207	2.067	27.677	0.006	0.0	2	37.1	2	2.63	2	123.5	2	0.244	4	0.011	4	125.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2251.4	34.654	2	34.652	2	1.986	1.829	27.708	0.003	0.0	2	35.7	2	2.49	2	122.1	2	-9	9	-9	9	144.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2500.8	34.666	2	34.665	2	1.873	1.695	27.727	0.003	0.0	2	35.3	2	2.47	2	123.2	2	-9	9	-9	9	149.23	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2748.8	34.674	2	34.674	2	1.811	1.612	27.741	0.002	0.0	2	35.2	2	2.47	2	126.0	2	0.213	4	0.011	4	149.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3000.2	34.679	2	34.678	2	1.786	1.563	27.748	0.002	0.0	2	35.3	2	2.47	2	130.8	2	-9	9	-9	9	148.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3250.6	34.682	2	34.682	2	1.772	1.524	27.754	0.001	0.0	2	35.6	2	2.46	2	132.1	2	-9	9	-9	9	148.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3499.1	34.685	2	34.684	2	1.780	1.507	27.757	0.001	0.0	2	35.4	2	2.47	2	131.0	2	0.203	4	0.012	4	149.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3755.1	34.686	2	34.685	2	1.790	1.490	27.759	0.001	0.0	2	35.5	2	2.46	2	130.7	2	-9	9	-9	9	149.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4001.0	34.686	2	34.687	2	1.814	1.486	27.759	0.001	0.0	2	35.3	2	2.46	2	131.9	2	0.171	4	0.010	4	148.94	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4001.4	34.686	2	34.686	2	1.815	1.487	27.759	0.001	0.0	2	35.0	2	2.45	2	132.2	2	-9	9	-9	9	149.30	2	1153	3	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4230.8	34.686	2	34.687	2	1.841	1.487	27.759	0.001	0.0	2	35.4	2	2.46	2	131.1	2	-0.003	2	-0.002	2	149.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 104 DATE 4/2/94 LATITUDE 17°30.0'S Btm Depth: 4048
CAST 1 LONGITUDE 103°0.4'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.6	36.387	2	36.386	2	24.452	24.450	24.557	0.040	0.0	2	0.1	2	0.28	2	2.3	2	-9	9	-9	9	210.25	2	311	2	2064.9	2	8.0715	2	2402	6	-9	76.9	5.1	0.042	0.015
135	2	24.5	36.382	2	36.381	2	24.317	24.312	24.595	0.052	0.0	2	0.1	2	0.27	2	2.5	2	-9	9	-9	9	211.67	2	-9	9	-9	9	8.0681	2	-9	9	-9	76.8	5.2	0.045	0.014
134	2	50.8	36.347	2	36.353	2	24.136	24.125	24.625	0.051	0.0	2	0.1	2	0.29	2	2.3	2	-9	9	-9	9	213.23	2	306	2	2064.0	3	8.0714	2	2404	2	-9	76.3	5.1	0.048	0.015
133	2	73.6	36.281	2	36.282	2	23.535	23.520	24.754	0.046	0.0	2	0.1	2	0.27	2	2.2	2	-9	9	-9	9	217.25	2	314	2	2066.3	2	8.0604	2	-9	9	-9	70.1	4.5	0.065	0.026
132	3	101.6	36.233	2	36.234	2	22.404	22.384	25.047	0.048	0.0	2	0.0	2	0.27	2	2.0	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	2392	2	-9	71.8	4.6	0.105	0.050
131	2	123.1	36.138	2	36.129	2	21.934	21.910	25.108	0.046	0.0	2	0.1	2	0.26	2	2.3	2	-9	9	-9	9	217.99	2	-9	9	-9	9	8.0465	2	-9	9	-9	66.3	4.6	0.148	0.094
130	2	150.3	35.909	2	35.895	2	20.814	20.785	25.245	0.042	0.1	2	0.3	2	0.32	2	2.1	2	-9	9	-9	9	212.49	2	-9	9	-9	9	8.0184	2	-9	9	-9	62.4	-9	0.171	0.187
129	2	198.3	35.481	2	35.537	3	18.715	18.680	25.470	0.027	0.1	2	2.2	2	0.46	2	2.2	2	-9	9	-9	9	-9	1	396	2	2079.2	2	-9	1	2337	2	-9	56.2	-9	0.076	0.092
128	2	248.6	34.879	2	34.886	2	14.994	14.956	25.888	0.024	0.0	2	6.3	2	0.71	2	3.3	2	-9	9	-9	9	-9	1	-9	9	-9	9	7.8864	2	-9	9	-9	-9	-9	0.021	0.020
127	2	299.8	34.568	2	34.586	2	11.898	11.859	26.280	0.020	0.0	2	15.5	2	1.44	2	9.2	2	-9	9	-9	9	167.09	2	777	2	2143.8	2	7.7186	2	2287	2	-9	48.5	3.9	0.002	0.005
126	3	349.7	34.481	2	34.480	2	9.490	9.451	26.638	0.021	0.0	2	26.0	2	2.14	2	16.9	2	-9	9	-9	9	103.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	404.2	34.484	2	34.485	2	8.233	8.191	26.840	0.022	0.0	2	32.5	2	2.45	2	22.4	2	-9	9	-9	9	72.19	2	1481	2	2236.3	2	7.4669	2	2283	2	-9	41.0	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	506.7	34.454	2	34.456	2	6.900	6.852	27.009	0.020	0.0	2	36.4	2	2.54	2	27.9	2	-9	9	-9	9	88.50	2	1462	2	2240.7	2	7.4727	2	2289	2	-9	-9	-9	-9	-9
122	2	601.3	34.451	2	34.451	2	6.019	5.966	27.124	0.019	0.0	2	39.1	2	2.68	2	37.1	2	-9	9	-9	9	83.60	2	1527	2	2255.3	2	7.4567	2	2298	2	-9	42.1	2.0	-9	-9
121	2	700.3	34.471	2	34.469	2	5.453	5.393	27.209	0.019	0.0	2	40.9	2	2.83	2	48.2	2	-9	9	-9	9	74.76	2	1610	2	2272.2	2	7.4373	2	2309	2	-9	-9	-9	-9	-9
120	2	802.3	34.490	2	34.489	2	4.988	4.922	27.280	0.017	0.0	2	41.7	2	2.90	2	59.6	2	-9	9	-9	9	71.01	2	1651	2	2286.9	2	7.4319	2	2326	2	-9	39.4	-9	-9	-9
119	2	901.7	34.506	2	34.505	2	4.521	4.450	27.345	0.015	0.0	2	41.0	2	2.89	2	69.3	2	-9	9	-9	9	78.41	6	1608	2	2293.1	2	7.4441	2	2333	2	-9	-9	-9	-9	-9
118	2	998.8	34.523	2	34.526	2	4.124	4.048	27.402	0.015	0.0	2	41.0	2	2.88	2	77.6	2	-9	9	-9	9	83.34	6	1575	2	2300.4	2	7.4526	2	2343	6	-9	37.6	1.9	-9	-9
117	2	1098.9	34.537	2	34.536	2	3.838	3.756	27.443	0.012	0.0	2	40.6	2	2.86	2	87.7	2	-9	9	-9	9	86.09	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1200.4	34.553	2	34.551	2	3.547	3.459	27.485	0.012	0.0	2	40.6	2	2.86	2	94.5	2	-9	9	-9	9	89.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1299.4	34.566	2	34.565	2	3.311	3.216	27.519	0.011	0.0	2	40.7	2	2.85	2	100.0	2	-9	9	-9	9	92.77	2	-9	9	-9	9	7.4661	2	-9	9	-9	-9	-9	-9	-9
114	2	1399.9	34.578	2	34.577	2	3.091	2.991	27.549	0.010	0.0	2	39.7	2	2.82	2	104.8	2	-9	9	-9	9	97.89	2	-9	9	-9	9	-9	9	-9	9	-9	41.4	-9	-9	-9
113	2	1601.6	34.605	2	34.604	2	2.708	2.595	27.605	0.008	0.0	2	38.9	2	2.77	2	116.8	2	-9	9	-9	9	106.09	2	-9	9	-9	9	7.4890	2	-9	9	-9	-9	-9	-9	-9
112	2	1800.3	34.623	2	34.622	2	2.427	2.301	27.645	0.007	0.0	2	38.0	2	2.68	2	122.4	2	-9	9	-9	9	116.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1999.3	34.639	2	34.638	2	2.181	2.042	27.679	0.005	0.0	2	37.1	2	2.57	2	123.2	2	-9	9	-9	9	132.21	2	-9	9	-9	9	7.5381	2	-9	9	-9	39.2	-9	-9	-9
110	2	2247.9	34.656	2	34.655	2	1.948	1.792	27.712	0.003	0.0	2	35.9	2	2.46	2	121.2	2	-9	9	-9	9	150.38	2	-9	9	-9	9	7.5675	2	-9	9	-9	-9	-9	-9	-9
109	2	2501.4	34.667	2	34.666	2	1.850	1.672	27.730	0.002	0.0	2	35.1	2	2.43	2	123.3	2	-9	9	-9	9	156.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2749.1	34.675	2	34.673	2	1.808	1.608	27.741	0.001	0.0	2	34.9	2	2.42	2	128.2	2	-9	9	-9	9	155.28	2	-9	9	-9	9	7.5823	2	-9	9	-9	-9	-9	-9	-9
107	2	2999.6	34.679	2	34.678	2	1.787	1.564	27.748	0.001	0.0	2	35.6	2	2.45	2	133.2	2	-9	9	-9	9	151.14	2	-9	9	-9	9	-9	9	-9	9	-9	38.5	2.4	-9	-9
106	2	3251.0	34.681	2	34.682	2	1.788	1.540	27.751	0.001	0.0	2	35.9	2	2.45	2	132.9	2	-9	9	-9	9	150.88	2	-9	9	-9	9	7.5820	2	-9	9	-9	-9	-9	-9	-9
105	2	3498.6	34.684	2	34.683	2	1.794	1.521	27.755	0.001	0.0	2	36.1	2	2.46	2	131.7	2	-9	9	-9	9	152.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3748.7	34.685	2	34.683	2	1.810	1.509	27.756	0.001	0.0	2	36.3	2	2.44	2	131.5	2	-9	9	-9	9	152.43	2	-9	9	-9	9	7.5860	2	-9	9	-9	-9	-9	-9	-9
103	2	3990.2	34.686	2	34.686	2	1.819	1.492	27.758	0.001	0.0	2	35.5	2	2.43	2	132.8	2	-9	9	-9	9	152.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3999.2	34.686	2	34.686	2	1.820	1.492	27.759	0.001	0.0	2	35.4	2	2.44	2	133.0	2	-9	9	-9	9	154.05	2	-9	9	-9	9	7.5837	2	-9	9	-9	-9	-9	-9	-9
101	2	4090.8	34.686	2	34.687	2	1.828	1.490	27.759	0.001	0.0	2	35.6	2	2.44	2	132.1	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	38.0	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 105 DATE 4/2/94 LATITUDE 16°59.9'S Btm Depth: 3928
CAST 1 LONGITUDE 102°59.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.1	36.286	2	36.283	2	24.470	24.468	24.475	0.053	-9	1	-9	1	-9	1	-9	1	2.008	2	1.060	2	210.16	2	309	2	2060.1	2	8.0676	2	2393	6	1.80	-9	-9	-9	-9
135	2	23.8	36.279	2	36.277	2	24.227	24.221	24.544	0.066	0.0	2	0.1	2	0.25	2	1.7	2	1.999	2	1.071	2	210.15	6	-9	9	2060.3	2	8.0698	2	2394	2	1.80	-9	-9	-9	-9
134	2	50.9	36.305	2	36.303	2	24.128	24.117	24.595	0.067	0.0	2	0.0	2	0.25	2	1.9	2	2.005	6	1.115	6	210.40	2	308	2	2060.3	2	8.0717	2	2395	2	1.80	-9	-9	-9	-9
133	2	74.0	36.273	2	36.275	2	23.637	23.621	24.718	0.060	0.0	2	0.0	2	0.31	2	2.1	2	2.039	2	1.066	2	214.70	2	-9	9	2059.7	2	8.0681	2	2395	2	1.80	-9	-9	-9	-9
132	2	100.3	36.182	2	36.178	2	22.424	22.404	25.001	0.058	0.0	2	0.0	2	0.31	2	2.0	2	2.161	2	1.144	2	218.23	2	317	2	2061.5	2	8.0609	2	2387	2	1.90	-9	-9	-9	-9
131	2	121.8	36.169	2	36.157	2	22.006	21.982	25.111	0.051	0.0	2	0.0	2	0.33	2	2.0	2	-9	1	-9	1	216.94	2	-9	9	2068.1	2	8.0472	2	2390	2	-9	-9	-9	-9	-9
130	2	147.9	35.988	2	35.981	2	21.155	21.127	25.212	0.039	0.1	2	0.1	2	0.33	2	1.8	2	2.257	6	1.181	6	214.25	2	-9	9	2070.5	2	8.0300	2	2375	2	1.70	-9	-9	-9	-9
129	2	199.4	35.428	2	35.460	3	18.494	18.459	25.485	0.027	0.1	2	1.6	2	0.42	2	1.9	2	2.399	2	1.235	2	206.61	2	398	2	2072.3	2	7.9769	2	2339	2	1.60	-9	-9	-9	-9
128	2	247.4	34.864	2	34.857	2	14.855	14.818	25.907	0.021	0.0	2	7.7	2	0.80	2	3.5	2	2.255	2	1.119	2	181.28	2	-9	9	2092.6	3	7.8684	2	2301	2	-9	-9	-9	-9	-9
127	2	294.0	34.577	2	-9	5	11.973	11.935	26.273	0.020	-9	1	-9	1	-9	1	-9	1	1.508	6	0.742	6	133.15	2	808	2	2148.3	3	-9	9	2284	2	0.90	-9	-9	-9	-9
126	2	349.0	34.536	2	34.536	2	10.036	9.995	26.591	0.022	0.0	2	26.6	2	2.26	2	18.9	2	0.502	2	0.266	2	69.40	2	-9	9	2219.7	3	7.5074	2	2284	2	-9	-9	-9	-9	-9
125	2	400.3	34.513	2	34.512	2	8.750	8.707	26.783	0.022	0.0	2	32.5	2	2.53	2	22.8	2	0.200	2	0.115	2	58.37	2	1548	3	2240.6	3	7.4537	2	2288	2	0.40	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	498.9	34.473	2	34.472	2	7.086	7.038	26.998	0.019	0.0	2	36.4	2	2.58	2	28.1	2	0.055	6	0.030	6	79.85	2	1486	2	2239.6	3	7.4670	2	2289	2	0.40	-9	-9	-9	-9
122	2	597.9	34.463	2	34.464	2	6.169	6.116	27.114	0.017	0.0	2	39.1	2	2.76	2	36.7	2	0.012	2	0.007	2	78.05	2	1539	2	2254.1	3	7.4553	2	2298	2	0.40	-9	-9	-9	-9
121	2	698.8	34.476	2	34.476	2	5.548	5.488	27.202	0.016	0.0	2	40.6	2	2.90	2	48.8	2	0.001	2	-0.002	2	69.57	2	1616	2	2270.8	3	7.4359	2	2313	2	0.30	-9	-9	-9	-9
120	2	798.2	34.487	2	34.488	2	5.039	4.973	27.272	0.016	0.0	2	41.4	2	2.95	2	59.7	2	0.002	2	-0.002	2	71.68	2	1630	2	2280.8	2	7.4364	2	2330	2	-9	-9	-9	-9	-9
119	2	899.7	34.503	2	34.503	2	4.626	4.554	27.331	0.014	0.0	2	41.7	2	2.97	2	69.2	2	0.002	2	-0.002	2	72.78	2	1630	2	2291.3	2	7.4378	2	2331	2	0.20	-9	-9	-9	-9
118	2	1000.7	34.519	2	34.521	2	4.216	4.138	27.389	0.012	0.0	2	41.4	2	2.93	2	80.8	2	0.000	2	-0.002	2	79.90	2	1594	2	2299.8	2	7.4482	2	2340	6	0.20	-9	-9	-9	-9
117	2	1100.8	34.536	2	34.536	2	3.899	3.816	27.436	0.011	0.0	2	41.4	2	2.94	2	88.3	2	-9	9	-9	9	81.68	2	1582	2	2306.4	2	7.4509	2	2355	2	-9	-9	-9	-9	-9
116	2	1200.6	34.551	2	34.551	2	3.601	3.512	27.478	0.010	0.0	2	41.3	2	2.93	2	93.9	2	-9	9	-9	9	85.12	2	1568	2	2312.6	2	7.4572	2	2359	2	0.10	-9	-9	-9	-9
115	2	1298.0	34.565	2	34.565	2	3.356	3.261	27.514	0.010	0.0	2	41.7	2	2.89	2	99.1	2	-9	9	-9	9	87.93	2	1553	2	2317.9	2	7.4625	2	2367	2	-9	-9	-9	-9	-9
114	2	1392.3	34.580	2	34.581	2	3.110	3.010	27.549	0.008	0.0	2	41.1	2	2.86	2	104.4	2	-9	9	-9	9	92.23	2	1523	2	2323.2	2	7.4705	2	2376	2	0.10	-9	-9	-9	-9
113	2	1499.0	34.593	2	34.594	2	2.878	2.772	27.581	0.008	0.0	2	40.6	2	2.84	2	109.4	2	-9	1	-9	1	97.06	2	1490	2	2325.0	2	7.4790	2	2382	2	-9	-9	-9	-9	-9
112	2	1597.5	34.604	2	34.605	2	2.721	2.608	27.604	0.008	0.0	2	40.1	2	2.79	2	113.0	2	-9	9	-9	9	101.85	2	1456	2	2328.6	2	7.4890	2	2383	2	0.10	-9	-9	-9	-9
111	2	1798.4	34.623	2	34.624	2	2.425	2.299	27.645	0.006	0.0	2	39.1	2	2.72	2	118.0	2	-9	9	-9	9	113.83	2	1379	2	2326.9	2	7.5132	2	2396	2	0.10	-9	-9	-9	-9
110	2	1997.7	34.641	2	34.642	2	2.153	2.014	27.683	0.004	0.0	2	37.4	2	2.56	2	118.5	2	-9	9	-9	9	130.56	2	1288	2	2317.8	2	7.5411	2	2395	2	-9	-9	-9	-9	-9
109	2	2248.5	34.658	2	34.659	2	1.931	1.774	27.715	0.003	0.0	2	36.2	2	2.46	2	118.4	2	-9	9	-9	9	146.42	6	1199	2	2308.8	2	7.5695	2	2397	2	-9	-9	-9	-9	-9
108	2	2499.4	34.669	2	34.669	2	1.837	1.659	27.733	0.002	0.0	2	36.3	2	2.46	2	120.8	2	-9	9	-9	9	149.76	2	1174	2	2312.0	2	7.5792	2	2405	2	0.20	-9	-9	-9	-9
107	2	2749.5	34.676	2	34.676	2	1.799	1.599	27.743	0.002	0.0	2	36.6	2	2.47	2	131.3	2	-9	9	-9	9	147.11	2	-9	9	2321.3	2	7.5806	2	2413	2	-9	-9	-9	-9	-9
106	2	3000.2	34.678	2	34.679	2	1.793	1.569	27.746	0.001	0.0	2	36.6	2	2.47	2	135.0	2	-9	9	-9	9	-9	1	1178	2	2327.1	2	7.5809	2	2423	2	0.10	-9	-9	-9	-9
105	2	3247.9	34.679	2	34.679	2	1.797	1.549	27.749	0.001	0.0	2	36.3	2	2.48	2	135.9	2	-9	9	-9	9	143.82	2	-9	9	2328.3	2	-9	9	2426	2	-9	-9	-9	-9	-9
104	2	3498.4	34.682	2	34.682	2	1.807	1.533	27.752	0.001	0.0	2	36.0	2	2.47	2	133.5	2	-9	9	-9	9	-9	1	1166	2	2325.0	2	7.5848	2	2416	2	0.10	-9	-9	-9	-9
103	2	3750.0	34.684	2	34.685	2	1.821	1.521	27.755	0.001	0.0	2	35.9	2	2.44	2	128.9	2	0.001	2	-0.001	2	147.69	6	1156	2	-9	9	-9	9	2420	2	-9	-9	-9	-9	-9
102	2	3750.0	34.684	2	34.684	2	1.821	1.520	27.755	0.001	0.0	2	36.4	2	2.46	2	128.1	2	-9	9	-9	9	-9	1	1160	2	2325.4	2	7.5847	2	2428	2	0.20	-9	-9	-9	-9
101	2	3973.3	34.685	2	34.685	2	1.838	1.512	27.756	0.001	0.0	2	36.3	2	2.50	2	127.0	2	-9	9	-9	9	148.17	2	1159	2	2324.1	2	-9	9	2416	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 106 DATE 4/3/94 LATITUDE 16°29.9'S Btm Depth: 3113
CAST 1 LONGITUDE 102°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.4	36.262	2	36.260	2	24.576	24.574	24.425	0.048	0.0	2	0.0	2	0.28	2	1.1	2	1.988	2	1.069	2	208.52	2	311	2	2060.2	2	8.0688	2	-9	5	-9	-9	-9	-9	-9
135	2	10.0	36.262	2	36.262	2	24.586	24.584	24.422	0.049	0.0	2	0.0	2	0.29	2	1.3	2	-9	9	-9	9	211.87	2	310	2	2062.7	2	8.0685	2	2393	2	-9	-9	-9	-9	-9
134	2	9.3	36.261	2	36.278	2	24.572	24.570	24.426	0.048	0.0	2	0.0	2	0.25	2	1.1	2	-9	9	-9	9	207.27	2	310	2	-9	9	8.0681	2	-9	9	-9	-9	5.3	-9	-9
133	2	10.0	36.261	2	36.259	2	24.590	24.588	24.420	0.049	0.0	2	0.0	2	0.28	2	1.0	2	-9	1	-9	1	208.62	2	-9	9	-9	9	8.0686	2	-9	9	-9	-9	5.4	-9	-9
132	3	24.7	36.278	2	36.276	2	24.206	24.201	24.549	0.062	0.0	2	0.0	2	0.29	2	1.1	2	2.017	6	1.086	6	210.36	2	308	2	2063.4	2	-9	9	2395	2	-9	-9	5.3	-9	-9
131	2	48.3	36.296	2	36.291	2	23.967	23.956	24.636	0.067	0.0	2	0.0	2	0.27	2	1.2	2	-9	9	-9	9	211.78	2	-9	9	-9	9	8.0703	2	-9	9	-9	-9	5.4	-9	-9
130	2	74.6	36.261	2	36.259	2	23.363	23.348	24.789	0.058	0.0	2	0.0	2	0.27	2	1.0	2	2.181	2	1.104	2	216.63	2	310	2	2061.2	2	8.0652	2	2387	2	-9	-9	5.2	-9	-9
129	2	100.6	36.190	2	36.186	2	22.258	22.238	25.055	0.050	0.0	2	0.0	2	0.26	2	0.9	2	-9	9	-9	9	219.62	2	-9	9	-9	9	8.0546	2	-9	9	-9	-9	4.7	-9	-9
128	2	149.3	35.964	2	35.969	2	20.961	20.933	25.247	0.039	0.6	2	0.8	2	0.40	2	1.1	2	2.302	2	1.187	2	203.72	2	-9	9	-9	9	8.0114	2	-9	9	-9	-9	-9	-9	-9
127	2	200.1	35.304	2	35.261	3	17.868	17.834	25.546	0.026	0.0	2	2.6	2	0.42	2	1.1	2	-9	9	-9	9	203.93	2	412	2	2074.7	2	7.9566	2	2324	2	-9	-9	-9	-9	-9
126	2	249.7	34.759	2	34.758	2	13.913	13.877	26.027	0.020	0.0	2	10.1	2	0.96	2	3.9	2	2.037	2	1.020	2	165.92	2	-9	9	-9	9	7.8219	2	-9	9	-9	-9	-9	-9	-9
125	2	299.5	34.535	2	34.537	2	10.689	10.653	26.475	0.020	0.0	2	22.0	2	1.91	2	13.3	2	-9	9	-9	9	100.70	2	1045	2	2190.0	2	7.6026	2	2281	2	-9	-9	4.3	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	349.6	34.535	2	34.541	2	9.333	9.294	26.707	0.022	0.0	2	31.2	2	2.46	2	21.8	2	-9	9	-9	9	50.35	6	-9	9	-9	9	7.4512	2	-9	9	-9	-9	-9	-9	-9
122	2	399.2	34.538	2	34.537	2	8.460	8.418	26.848	0.022	0.0	2	35.1	2	2.58	2	26.2	2	-9	1	-9	1	45.66	2	1624	3	2255.1	2	7.4282	2	2289	2	-9	-9	-9	-9	-9
121	2	499.5	34.485	2	34.486	2	6.898	6.851	27.034	0.021	0.0	2	37.4	2	2.55	2	31.8	2	-9	9	-9	9	74.54	2	1495	2	2248.9	2	7.4617	2	2299	2	-9	-9	-9	-9	-9
120	2	599.9	34.482	2	34.482	2	6.041	5.988	27.145	0.020	0.0	2	39.9	2	2.71	2	41.4	2	0.000	6	0.001	6	70.83	2	1569	2	2262.4	2	7.4475	2	2305	2	-9	-9	1.9	-9	-9
119	2	698.1	34.494	2	34.495	2	5.459	5.400	27.227	0.019	0.0	2	42.1	2	2.85	2	52.2	2	-9	9	-9	9	64.17	2	1640	2	2279.7	2	7.4285	2	2316	2	-9	-9	-9	-9	-9
118	2	801.2	34.503	2	34.504	2	4.941	4.876	27.296	0.017	0.0	2	42.3	2	2.87	2	61.7	2	0.000	2	-0.002	2	63.79	2	1675	2	2293.1	2	7.4235	2	2333	2	-9	-9	-9	-9	-9
117	2	898.9	34.517	2	34.517	2	4.523	4.452	27.354	0.016	0.0	2	43.1	2	2.93	2	70.4	2	-9	9	-9	9	64.39	6	1701	2	2303.6	2	7.4213	2	2337	2	-9	-9	-9	-9	-9
116	2	1000.3	34.532	2	34.533	2	4.186	4.109	27.403	0.016	0.0	2	42.7	2	2.94	2	78.9	2	0.001	2	0.001	2	66.58	2	1687	2	2311.0	2	7.4257	2	2352	6	-9	-9	-9	-9	-9
115	2	1097.8	34.544	2	34.544	2	3.876	3.793	27.445	0.015	0.0	2	41.7	2	2.89	2	87.2	2	-9	9	-9	9	72.99	6	-9	9	-9	9	7.4366	2	-9	9	-9	-9	-9	-9	-9
114	2	1200.4	34.556	2	34.556	2	3.599	3.510	27.483	0.015	0.0	2	41.4	2	2.86	2	93.6	2	-9	9	-9	9	78.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1298.2	34.569	2	34.569	2	3.341	3.247	27.518	0.012	0.0	2	41.2	2	2.85	2	98.2	2	-9	9	-9	9	84.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1385.3	34.581	2	34.582	2	3.121	3.022	27.548	0.010	0.0	2	40.5	2	2.81	2	101.5	2	-9	9	-9	9	90.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1499.5	34.594	2	34.595	2	2.886	2.779	27.581	0.010	0.0	2	40.3	2	2.78	2	107.8	2	-9	9	-9	9	97.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1598.2	34.605	2	34.605	2	2.711	2.599	27.606	0.009	0.0	2	39.5	2	2.75	2	113.1	2	-9	9	-9	9	102.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1801.3	34.626	2	34.626	2	2.394	2.269	27.650	0.008	0.0	2	38.7	2	2.67	2	120.2	2	-9	9	-9	9	116.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1997.4	34.644	2	34.643	2	2.110	1.972	27.689	0.005	0.0	2	36.7	2	2.52	2	123.1	2	-9	9	-9	9	133.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2198.8	34.657	2	34.657	2	1.944	1.792	27.713	0.004	0.0	2	35.7	2	2.45	2	125.2	2	-9	9	-9	9	144.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2395.5	34.666	2	34.666	2	1.863	1.694	27.728	0.003	0.0	2	35.4	2	2.42	2	125.6	2	-9	9	-9	9	146.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2587.5	34.671	2	34.675	3	1.823	1.638	27.736	0.003	0.0	2	36.5	2	2.46	2	127.4	2	-9	9	-9	9	146.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2798.5	34.675	2	34.679	2	1.801	1.597	27.742	0.002	0.0	2	36.4	2	2.45	2	132.1	2	-9	9	-9	9	145.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	2997.7	34.676	2	34.677	2	1.805	1.581	27.744	0.002	0.0	2	35.8	2	2.46	2	135.3	2	-9	9	-9	9	143.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2996.4	34.677	2	34.678	2	1.804	1.580	27.745	0.002	0.0	2	36.4	2	2.45	2	132.8	2	0.000	2	-0.002	2	144.93	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3153.2	34.678	2	-9	5	1.800	1.562	27.747	0.002	0.0	2	37.6	2	2.54	2	136.4	2	-9	9	-9	9	142.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 107 DATE 4/3/94 LATITUDE 16°0.0'S Btm Depth: 3772
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.1	36.331	2	36.331	2	24.343	24.341	24.548	0.046	0.0	2	0.1	2	0.29	2	1.5	2	1.993	2	1.055	2	209.10	2	315	2	2064.4	2	8.0708	2	2396	6	1.80	-9	-9	-9	-9
135	2	10.4	36.330	2	36.330	2	24.338	24.336	24.548	0.046	0.0	2	0.0	2	0.27	2	1.5	2	2.003	2	1.063	2	209.15	2	-9	9	-9	9	8.0716	2	-9	9	-9	-9	-9	-9	-9
134	2	25.2	36.302	2	36.301	2	24.196	24.191	24.571	0.059	0.0	2	0.0	2	0.27	2	1.5	2	2.015	2	1.072	2	209.84	2	-9	9	-9	9	8.0698	2	-9	9	-9	-9	-9	-9	-9
133	2	49.7	36.286	2	36.288	2	24.070	24.060	24.597	0.060	0.0	2	0.0	2	0.29	2	1.4	2	2.041	2	1.076	2	210.41	2	-9	9	-9	9	8.0701	2	-9	9	-9	-9	-9	-9	-9
132	2	74.7	36.255	2	36.255	2	23.367	23.351	24.783	0.054	0.0	2	0.0	2	0.28	2	1.4	2	2.088	2	1.128	2	216.00	2	-9	9	-9	9	8.0654	2	-9	9	-9	-9	-9	-9	-9
131	2	104.0	36.169	2	36.165	2	22.058	22.037	25.096	0.046	0.0	2	0.2	2	0.27	2	1.5	2	2.191	6	1.143	6	212.09	2	-9	9	-9	9	8.0507	2	-9	9	-9	-9	-9	-9	-9
130	2	125.4	36.105	2	36.106	2	21.616	21.592	25.172	0.049	0.0	2	0.1	2	0.31	2	1.3	2	2.208	2	1.162	2	-9	1	-9	9	-9	9	8.0378	2	-9	9	-9	-9	-9	-9	-9
129	2	149.4	35.947	2	35.948	2	20.902	20.874	25.250	0.034	0.5	2	1.0	2	0.39	2	1.4	2	2.251	2	1.188	2	203.57	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	199.8	35.425	2	35.948	4	18.291	18.256	25.534	0.024	0.0	2	5.7	2	0.71	2	2.3	2	2.372	6	1.218	6	185.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	249.3	34.832	2	35.374	4	14.402	14.365	25.980	0.019	0.0	2	9.4	2	0.96	2	3.9	2	2.087	2	1.049	2	86.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	300.0	34.570	2	34.829	4	11.045	11.008	26.439	0.021	0.0	2	21.9	2	2.00	2	14.5	2	0.826	2	0.421	2	42.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	351.4	34.561	2	34.569	2	9.516	9.477	26.697	0.022	0.0	2	31.5	2	2.55	2	23.1	2	0.215	2	0.111	2	41.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	402.0	34.543	2	34.560	2	8.344	8.302	26.869	0.021	0.0	2	35.6	2	2.61	2	26.5	2	0.072	6	0.041	6	45.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	499.5	34.494	2	34.541	4	7.038	6.991	27.021	0.018	0.0	2	37.3	2	2.56	2	30.3	2	0.024	2	0.014	2	75.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	606.9	34.504	2	34.493	4	6.229	6.174	27.139	0.017	0.0	2	40.6	2	2.75	2	41.5	2	0.013	6	0.002	6	65.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	700.3	34.501	2	34.504	2	5.711	5.650	27.202	0.017	0.0	2	42.7	2	2.97	2	51.0	2	0.005	2	0.001	2	51.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	800.8	34.505	2	34.502	2	5.120	5.054	27.277	0.017	0.0	2	44.1	2	2.96	2	59.8	2	0.006	2	0.003	2	53.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	900.5	34.516	2	34.505	4	4.667	4.595	27.337	0.016	0.0	2	43.6	2	2.98	2	68.4	2	0.001	2	0.001	2	58.62	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	999.5	34.532	2	34.517	4	4.135	4.058	27.408	0.015	0.0	2	42.3	2	2.96	2	79.0	2	-0.002	2	-0.002	2	68.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1099.9	34.544	2	34.531	4	3.838	3.755	27.449	0.012	0.0	2	41.7	2	2.91	2	87.7	2	-9	9	-9	9	76.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1202.7	34.560	2	34.545	4	3.523	3.434	27.493	0.011	0.0	2	41.1	2	2.88	2	94.7	2	0.010	2	0.003	2	81.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1302.8	34.570	2	34.560	3	3.313	3.218	27.521	0.010	0.0	2	41.0	2	2.86	2	97.4	2	-9	9	-9	9	86.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1403.1	34.583	2	34.583	2	3.102	3.001	27.552	0.010	0.0	2	40.5	2	2.84	2	103.7	2	-9	9	-9	9	89.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1497.8	34.594	2	34.594	2	2.912	2.806	27.579	0.010	0.0	2	40.2	2	2.82	2	109.6	2	-9	9	-9	9	95.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1598.4	34.607	2	34.608	2	2.690	2.578	27.609	0.009	0.0	2	39.4	2	2.77	2	115.5	2	-9	9	-9	9	102.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1800.5	34.624	2	34.625	2	2.414	2.288	27.647	0.008	0.0	2	38.6	2	2.67	2	121.1	2	-9	9	-9	9	114.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2000.2	34.643	2	34.642	2	2.126	1.987	27.687	0.005	0.0	2	37.4	2	2.55	2	122.8	2	-9	9	-9	9	131.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2249.6	34.658	2	34.659	2	1.932	1.776	27.716	0.004	0.0	2	35.9	2	2.47	2	124.8	2	-9	9	-9	9	144.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2499.9	34.670	2	34.670	2	1.832	1.655	27.734	0.003	0.0	2	36.2	2	2.47	2	129.0	2	-9	9	-9	9	145.67	6	1179	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2749.6	34.674	2	34.675	2	1.801	1.602	27.741	0.003	0.0	2	37.5	2	2.48	2	132.1	2	-9	9	-9	9	143.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2999.3	34.676	2	34.677	2	1.799	1.575	27.745	0.002	0.0	2	36.3	2	2.48	2	136.1	2	-9	9	-9	9	143.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3248.4	34.677	2	34.677	2	1.803	1.555	27.747	0.002	0.0	2	36.7	2	2.50	2	138.8	2	-9	9	-9	9	140.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3498.3	34.677	2	34.678	2	1.805	1.531	27.748	0.002	0.0	2	37.4	2	2.52	2	143.0	2	0.048	4	0.001	4	137.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3498.7	34.677	2	34.678	2	1.805	1.531	27.748	0.002	0.0	2	37.2	2	2.53	2	143.0	2	0.025	4	0.000	4	138.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3790.5	34.676	2	34.677	2	1.824	1.519	27.749	0.002	0.0	2	36.3	2	2.53	2	145.1	2	-9	9	-9	9	136.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 108 DATE 4/3/94 LATITUDE 15°30.1'S Btm Depth: 3703
CAST 1 LONGITUDE 103°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.4	36.405	2	36.405	2	24.452	24.450	24.571	0.040	0.0	2	0.1	2	0.26	2	0.7	2	-9	9	-9	9	208.34	2	308	2	2067.6	3	8.0700	2	2405	2	-9	64.8	4.9	0.036	0.010
135	2	25.1	36.379	2	36.377	2	24.305	24.299	24.596	0.049	0.0	2	0.1	2	0.26	2	0.7	2	-9	9	-9	9	209.04	2	-9	9	-9	9	8.0717	2	-9	9	-9	60.2	4.8	0.032	0.011
134	2	49.4	36.375	2	36.375	2	24.149	24.139	24.641	0.050	0.0	2	0.1	2	0.28	2	0.5	2	-9	9	-9	9	209.62	2	309	6	2065.2	2	8.0678	2	2397	2	-9	69.8	5.3	0.035	0.016
133	2	74.7	36.237	2	36.241	2	22.774	22.759	24.941	0.046	0.0	2	0.1	2	0.25	2	0.5	2	-9	9	-9	9	219.89	6	-9	9	-9	9	8.0594	2	-9	9	-9	58.4	4.7	0.052	0.022
132	2	99.4	36.190	2	36.181	2	22.277	22.257	25.050	0.042	0.0	2	0.0	2	0.24	2	0.4	2	-9	9	-9	9	219.51	2	325	2	2067.1	2	8.0523	2	2386	2	-9	75.5	4.8	0.073	0.028
131	2	125.0	36.067	2	36.052	2	21.536	21.511	25.165	0.046	0.0	2	0.0	2	0.25	2	0.5	2	-9	9	-9	9	215.97	2	-9	9	-9	9	8.0342	2	-9	9	-9	59.1	4.7	0.127	0.134
130	2	150.5	35.774	2	35.744	3	20.194	20.166	25.308	0.034	0.2	2	0.6	2	0.29	2	0.4	2	-9	9	-9	9	-9	1	-9	9	-9	9	8.0061	2	-9	9	-9	57.6	-9	0.154	0.212
129	2	200.5	35.165	2	35.146	2	16.944	16.911	25.662	0.024	0.0	2	3.9	2	0.50	2	1.2	2	-9	9	-9	9	197.57	2	437	2	2075.7	2	7.9360	2	2318	2	-9	47.5	-9	0.034	0.039
128	2	251.8	34.730	2	34.723	2	13.417	13.382	26.106	0.021	0.0	2	12.2	2	1.16	2	5.0	2	-9	9	-9	9	152.19	2	-9	9	-9	9	7.7830	2	-9	9	-9	-9	-9	0.002	0.003
127	2	303.4	34.622	2	34.627	2	11.015	10.978	26.485	0.024	0.0	2	24.6	2	2.35	2	19.1	2	-9	9	-9	9	45.77	2	1389	2	2232.1	2	7.4926	2	2286	2	-9	50.2	3.1	0.001	0.003
126	2	352.4	34.571	2	34.570	2	9.472	9.432	26.712	0.024	0.0	2	31.8	2	2.56	2	23.1	2	-9	9	-9	9	41.01	2	-9	9	-9	9	7.4357	2	-9	9	-9	-9	-9	-9	-9
125	2	399.3	34.568	2	34.568	2	8.592	8.550	26.851	0.022	0.0	2	35.5	2	2.63	2	26.9	2	-9	9	-9	9	37.67	2	1638	2	2259.0	2	7.4233	2	2292	2	-9	39.8	3.1	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	496.4	34.541	2	34.540	2	7.390	7.342	27.009	0.021	0.0	2	39.2	2	2.70	2	33.4	2	-9	9	-9	9	46.95	2	1646	2	2263.8	2	7.4245	2	2298	2	-9	-9	-9	-9	-9
122	2	600.5	34.507	2	34.506	2	6.450	6.395	27.112	0.023	0.0	2	40.8	2	2.76	2	39.3	2	-9	9	-9	9	58.74	6	1626	2	2266.8	2	7.4331	2	2303	2	-9	48.5	-9	-9	-9
121	2	701.4	34.504	2	34.503	2	5.776	5.715	27.196	0.019	0.0	2	42.8	2	2.97	2	51.0	2	-9	9	-9	9	46.86	2	1771	2	2288.1	2	7.3978	2	2317	2	-9	-9	-9	-9	-9
120	2	801.6	34.506	2	34.505	2	5.258	5.191	27.261	0.019	0.0	2	43.7	2	3.03	2	60.5	2	-9	9	-9	9	47.47	2	1809	2	2297.8	2	7.3947	2	2327	2	-9	36.6	-9	-9	-9
119	2	899.8	34.515	2	34.514	2	4.747	4.675	27.328	0.017	0.0	2	43.7	2	3.02	2	70.1	2	-9	9	-9	9	54.54	2	1774	2	2305.0	2	7.4048	2	2338	2	-9	-9	-9	-9	-9
118	2	999.4	34.527	2	34.528	2	4.343	4.265	27.382	0.015	0.0	2	43.0	2	2.98	2	77.9	2	-9	9	-9	9	62.81	2	1719	2	2309.4	2	7.4178	2	2345	6	-9	47.8	2.2	-9	-9
117	2	1098.9	34.541	2	34.541	2	3.929	3.845	27.437	0.015	0.0	2	42.8	2	3.00	2	86.1	2	-9	9	-9	9	72.62	6	-9	9	-9	9	7.4331	2	-9	9	-9	-9	-9	-9	-9
116	2	1196.3	34.554	2	34.552	2	3.648	3.559	27.476	0.014	0.0	2	41.1	2	2.99	2	91.6	2	-9	9	-9	9	78.24	2	-9	9	-9	9	7.4465	2	-9	9	-9	-9	-9	-9	-9
115	2	1300.6	34.571	2	34.570	2	3.306	3.211	27.523	0.012	0.0	2	41.8	2	2.96	2	101.2	2	-9	9	-9	9	84.61	2	-9	9	-9	9	7.4596	2	-9	9	-9	-9	-9	-9	-9
114	2	1399.7	34.586	2	34.584	2	3.044	2.944	27.559	0.010	0.0	2	40.9	2	2.87	2	109.0	2	-9	9	-9	9	91.45	2	-9	9	-9	9	7.4691	2	-9	9	-9	40.5	-9	-9	-9
113	2	1598.7	34.608	2	34.607	2	2.685	2.572	27.610	0.010	0.0	2	40.9	2	2.81	2	118.3	2	-9	9	-9	9	101.83	2	-9	9	-9	9	7.4912	2	-9	9	-9	-9	-9	-9	-9
112	2	1801.7	34.627	2	34.627	2	2.365	2.239	27.654	0.007	0.0	2	39.5	2	2.66	2	120.1	2	-9	9	-9	9	116.53	2	-9	9	-9	9	7.5180	2	-9	9	-9	-9	-9	-9	-9
111	2	2003.7	34.645	2	34.644	2	2.107	1.968	27.690	0.005	0.0	2	38.1	2	2.59	2	121.9	2	-9	9	-9	9	131.50	2	-9	9	-9	9	-9	9	-9	9	-9	41.0	-9	-9	-9
110	2	2202.5	34.660	2	34.660	2	1.915	1.763	27.718	0.004	0.0	2	37.0	2	2.50	2	125.1	2	-9	9	-9	9	143.86	2	-9	9	-9	9	7.5674	2	-9	9	-9	-9	-9	-9	-9
109	2	2397.7	34.668	2	34.667	2	1.844	1.676	27.731	0.004	0.0	2	36.4	2	2.52	2	129.4	2	-9	9	-9	9	145.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2600.2	34.673	2	34.671	2	1.809	1.623	27.739	0.003	0.0	2	36.6	2	2.52	2	132.5	2	-9	9	-9	9	145.35	2	-9	9	-9	9	7.5777	2	-9	9	-9	-9	-9	-9	-9
107	2	2800.1	34.675	2	34.674	2	1.799	1.595	27.742	0.003	0.0	2	37.0	2	2.44	2	133.0	2	-9	9	-9	9	143.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2999.7	34.676	2	34.675	2	1.799	1.576	27.745	0.003	0.0	2	37.2	2	2.51	2	133.5	2	-9	9	-9	9	142.63	2	-9	9	-9	9	7.5794	2	-9	9	-9	38.7	1.8	-9	-9
105	2	3201.0	34.677	2	34.675	2	1.805	1.562	27.746	0.003	0.0	2	36.7	2	2.49	2	137.5	2	-9	9	-9	9	141.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3397.8	34.677	2	34.675	2	1.806	1.543	27.748	0.002	0.0	2	37.2	2	2.50	2	141.3	2	-9	9	-9	9	138.95	2	-9	9	-9	9	7.5768	2	-9	9	-9	-9	-9	-9	-9
103	2	3595.3	34.676	2	34.677	2	1.811	1.527	27.749	0.002	0.0	2	37.5	2	2.55	2	144.1	2	-9	9	-9	9	137.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3597.1	34.676	2	34.675	2	1.811	1.527	27.749	0.002	0.0	2	37.9	2	2.49	2	141.4	2	-9	9	-9	9	138.13	2	-9	9	-9	9	7.5750	2	-9	9	-9	-9	-9	-9	-9
101	2	3774.8	34.676	2	34.675	2	1.818	1.515	27.749	0.002	0.0	2	37.9	2	2.53	2	142.6	2	-9	9	-9	9	135.91	2	-9	9	-9	9	-9	9	-9	9	-9	37.0	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 109 DATE 4/3/94 LATITUDE 14°60.0'S Btm Depth: 4208
CAST 1 LONGITUDE 102°60.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.0	36.407	2	36.406	2	24.851	24.849	24.451	0.044	0.0	2	0.1	2	0.26	2	1.5	2	1.964	2	1.033	2	207.95	2	304	2	2064.2	2	8.0728	2	2404	6	1.70	-9	-9	-9	-9
135	2	25.3	36.397	2	36.405	2	24.540	24.534	24.539	0.056	0.0	2	0.1	2	0.25	2	1.6	2	1.978	2	1.064	2	209.40	2	-9	9	2063.1	2	8.0760	2	2405	2	-9	-9	-9	-9	-9
134	2	49.6	36.364	2	36.365	2	24.261	24.251	24.599	0.058	0.0	2	0.0	2	0.28	2	1.3	2	1.995	2	1.058	2	211.46	2	306	2	2063.2	2	8.0739	2	2397	2	-9	-9	-9	-9	-9
133	2	73.4	36.283	2	36.282	2	23.050	23.035	24.897	0.053	0.0	2	0.0	2	0.28	2	1.2	2	2.125	2	1.111	2	219.64	2	-9	9	2067.3	2	8.0617	2	2399	2	-9	-9	-9	-9	-9
132	2	98.8	36.230	2	36.227	2	22.316	22.296	25.069	0.050	0.0	2	0.0	2	0.28	2	1.1	2	2.156	2	1.145	2	216.62	2	325	2	2067.4	2	8.0547	2	2395	2	-9	-9	-9	-9	-9
131	2	124.2	36.055	2	36.056	2	21.500	21.476	25.167	0.046	0.0	2	0.0	2	0.26	2	1.2	2	2.205	6	1.163	6	215.14	2	-9	9	2069.8	2	8.0359	2	2376	2	-9	-9	-9	-9	-9
130	2	147.3	35.907	2	35.909	2	20.821	20.793	25.241	0.048	0.0	2	0.1	2	0.26	2	1.1	2	2.288	2	1.191	2	215.54	2	-9	9	2068.7	2	8.0261	2	2368	2	-9	-9	-9	-9	-9
129	2	199.8	35.288	2	35.285	2	17.430	17.397	25.640	0.024	0.0	2	6.0	2	0.73	2	2.5	2	2.301	2	1.184	2	180.00	2	479	2	2099.7	2	7.9093	2	2332	2	-9	-9	-9	-9	-9
128	2	247.8	34.760	2	34.756	2	13.324	13.289	26.149	0.024	0.0	2	17.4	2	1.82	2	11.4	2	1.436	6	0.727	6	81.29	2	-9	9	2187.7	2	7.6315	2	2295	2	-9	-9	-9	-9	-9
127	2	298.2	34.704	2	34.701	2	11.375	11.338	26.483	0.025	0.0	2	25.8	2	2.57	2	22.4	2	0.340	2	0.189	2	15.16	6	1629	2	2256.8	2	7.4289	2	2294	2	-9	-9	-9	-9	-9
126	2	348.9	34.665	2	34.663	2	10.092	10.051	26.681	0.030	0.0	2	32.1	2	2.73	2	26.9	2	0.102	2	0.056	2	9.07	2	-9	9	2271.8	2	7.3925	2	2299	2	-9	-9	-9	-9	-9
125	2	400.1	34.631	2	34.625	2	9.181	9.137	26.807	0.025	0.0	2	36.3	2	2.76	2	29.9	2	-9	1	-9	1	12.77	6	1848	2	2273.2	2	7.3841	2	2300	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.3	34.554	2	34.553	2	7.542	7.493	26.998	0.025	0.0	2	40.3	2	2.83	2	34.9	2	0.012	2	0.007	2	30.86	2	1818	2	2275.6	2	7.3915	2	2300	2	-9	-9	-9	-9	-9
122	2	598.6	34.520	2	34.519	2	6.636	6.581	27.097	0.023	0.0	2	41.8	2	2.88	2	40.4	2	0.004	2	0.004	2	40.90	2	1790	2	2278.9	2	7.3977	2	2299	2	-9	-9	-9	-9	-9
121	2	698.3	34.502	2	34.501	2	5.841	5.780	27.187	0.020	0.0	2	43.2	2	2.93	2	47.7	2	-0.001	2	-0.001	6	47.29	2	1780	2	2286.7	2	7.3998	2	2315	2	-9	-9	-9	-9	-9
120	2	799.5	34.506	2	34.505	2	5.213	5.146	27.266	0.020	0.0	2	43.8	2	3.02	2	59.0	2	-0.002	2	-0.002	2	47.28	2	1829	2	2301.4	2	7.3924	2	2326	2	-9	-9	-9	-9	-9
119	2	898.9	34.514	2	34.513	2	4.634	4.562	27.339	0.017	0.0	2	43.1	2	3.01	2	70.8	2	-0.004	2	0.001	2	59.28	2	1748	2	2302.6	2	7.4110	2	2341	2	-9	-9	-9	-9	-9
118	2	998.1	34.527	2	34.527	2	4.251	4.173	27.392	0.016	0.0	2	42.2	2	2.98	2	78.7	2	-0.001	2	0.000	2	67.14	2	1945	3	2307.5	2	7.4267	2	2343	6	-9	-9	-9	-9	-9
117	2	1099.2	34.543	2	34.541	2	3.878	3.794	27.444	0.017	0.0	2	41.9	2	2.97	2	86.6	2	-9	9	-9	9	74.36	2	-9	9	2314.2	2	7.4373	2	2356	2	-9	-9	-9	-9	-9
116	2	1200.5	34.558	2	34.557	2	3.560	3.471	27.488	0.014	0.0	2	41.3	2	2.93	2	94.2	2	-0.004	2	0.000	2	79.69	2	1615	2	2318.2	2	7.4495	2	2367	2	-9	-9	-9	-9	-9
115	2	1298.3	34.573	2	34.572	2	3.286	3.192	27.526	0.012	0.0	2	40.5	2	2.92	2	102.9	2	-9	9	-9	9	85.29	2	-9	9	-9	9	7.4606	2	2369	2	-9	-9	-9	-9	-9
114	2	1399.6	34.584	2	34.584	2	3.040	2.940	27.559	0.010	0.0	2	39.9	2	2.86	2	109.0	2	-9	9	-9	9	93.43	2	1509	2	2324.1	2	7.4740	2	-9	5	-9	-9	-9	-9	-9
113	2	1597.4	34.608	2	34.608	2	2.659	2.547	27.613	0.010	0.0	2	39.2	2	2.78	2	116.8	2	0.002	2	0.001	2	104.53	2	1453	2	2327.0	2	7.4956	2	2389	2	-9	-9	-9	-9	-9
112	2	1799.4	34.630	2	34.630	2	2.333	2.209	27.658	0.007	0.0	2	37.8	2	2.68	2	120.9	2	-9	9	-9	9	117.81	2	1351	2	2325.4	2	7.5218	2	2393	2	-9	-9	-9	-9	-9
111	2	1998.1	34.647	2	34.646	2	2.085	1.947	27.693	0.006	0.0	2	36.8	2	2.58	2	121.5	2	-0.001	2	-0.002	2	132.06	6	1276	2	2319.6	2	7.5436	2	2399	2	-9	-9	-9	-9	-9
110	2	2246.1	34.663	2	34.663	2	1.892	1.736	27.722	0.005	0.0	2	35.8	2	2.49	2	123.2	2	-9	9	-9	9	144.19	2	-9	9	2317.1	2	7.5689	2	2407	2	-9	-9	-9	-9	-9
109	2	2500.2	34.671	2	34.671	2	1.816	1.639	27.736	0.005	0.0	2	35.7	2	2.51	2	130.7	2	-9	9	-9	9	144.18	2	1191	2	2321.9	2	7.5717	2	2417	2	-9	-9	-9	-9	-9
108	2	2747.3	34.675	2	34.676	2	1.789	1.590	27.743	0.004	0.0	2	35.9	2	2.51	2	137.5	2	-9	9	-9	9	141.78	2	-9	9	2327.6	2	7.5763	2	-9	5	-9	-9	-9	-9	-9
107	2	3000.4	34.676	2	34.675	2	1.784	1.561	27.746	0.004	0.0	2	36.3	2	2.52	2	140.0	2	0.005	2	0.002	2	140.24	6	1194	2	2332.0	2	7.5754	2	2423	2	-9	-9	-9	-9	-9
106	2	3250.1	34.676	2	34.677	2	1.787	1.539	27.748	0.003	0.0	2	36.8	2	2.52	2	140.6	2	-9	9	-9	9	138.00	2	1193	2	2336.0	2	7.5754	2	2425	2	-9	-9	-9	-9	-9
105	2	3499.2	34.676	2	34.675	2	1.794	1.521	27.749	0.003	0.0	2	37.2	2	2.54	2	141.4	2	-9	9	-9	9	136.71	2	1201	2	2339.1	2	7.5739	2	2427	2	-9	-9	-9	-9	-9
104	2	3747.1	34.676	2	34.675	2	1.806	1.506	27.750	0.003	0.0	2	37.0	2	2.57	2	145.3	2	-9	9	-9	9	135.83	2	-9	9	2340.4	2	7.5738	2	2434	2	-9	-9	-9	-9	-9
103	2	4000.1	34.676	2	34.676	2	1.827	1.499	27.750	0.003	0.0	2	36.6	2	2.55	2	149.1	2	-0.002	2	-0.002	2	135.29	2	-9	9	2340.7	2	7.5741	2	2435	2	-9	-9	-9	-9	-9
102	2	4000.0	34.676	2	34.675	2	1.827	1.499	27.750	0.003	0.0	2	37.1	2	2.56	2	148.9	2	-9	9	-9	9	136.02	2	1204	2	2339.9	2	7.5736	2	2429	2	-9	-9	-9	-9	-9
101	2	4257.2	34.676	2	34.676	2	1.854	1.496	27.750	0.004	0.0	2	37.2	2	2.52	2	147.0	2	-9	9	-9	9	135.76	2	1202	2	2340.8	2	7.5714	2	2431	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 110 DATE 4/4/94 LATITUDE 14°30.2'S Btm Depth: 4021
CAST 1 LONGITUDE 102°59.3'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.7	36.076	2	36.073	2	25.421	25.418	24.026	0.084	0.0	2	0.6	2	0.30	2	3.1	2	1.900	2	1.018	2	206.94	2	-9	9	2035.0	2	8.0868	2	2381	2	-9	64.1	6.1	-9	-9
135	2	10.2	36.067	2	36.076	2	25.421	25.419	24.019	0.084	0.0	2	0.7	2	0.30	2	5.4	2	1.889	2	1.008	2	207.43	2	291	2	2034.5	2	8.0873	2	2373	2	-9	74.5	5.9	-9	-9
134	2	24.3	36.287	2	36.285	2	24.877	24.872	24.354	0.066	0.0	2	0.1	2	0.30	2	6.9	2	-9	9	-9	9	208.28	2	-9	9	-9	9	8.0772	2	-9	9	-9	72.4	5.0	-9	-9
133	2	49.3	36.223	2	36.233	2	23.877	23.867	24.608	0.066	0.0	2	0.3	2	0.30	2	7.6	2	2.041	2	1.079	2	214.66	6	-9	9	2054.0	2	8.0726	2	2385	2	-9	62.5	6.9	-9	-9
132	2	74.5	36.178	2	36.185	2	22.342	22.327	25.020	0.056	0.0	2	0.0	2	0.27	2	7.4	2	-9	9	-9	9	221.64	2	-9	9	-9	9	8.0564	2	-9	9	-9	75.5	6.4	-9	-9
131	2	98.5	36.121	2	36.131	2	21.743	21.724	25.147	0.050	0.0	2	0.0	2	0.32	2	8.2	2	2.266	2	1.154	2	217.56	2	329	2	2069.4	2	8.0419	2	2382	2	-9	56.2	6.0	-9	-9
130	2	122.1	36.006	2	36.009	2	21.178	21.155	25.218	0.051	0.1	2	0.3	2	0.37	2	9.4	2	-9	9	-9	9	212.16	2	-9	9	-9	9	8.0278	2	-9	9	-9	-9	4.6	-9	-9
129	2	149.2	35.745	2	35.731	2	19.909	19.882	25.362	0.034	0.1	2	2.4	2	0.51	2	8.8	2	2.310	2	1.204	2	199.26	2	-9	9	-9	9	7.9836	2	-9	9	-9	-9	-9	-9	-9
128	2	199.1	35.215	2	35.199	2	16.961	16.928	25.696	0.024	0.0	2	7.3	2	0.86	2	9.9	2	-9	9	-9	9	173.17	2	504	2	2105.5	2	7.8845	2	2320	2	-9	-9	-9	-9	-9
127	2	247.9	34.758	2	34.750	2	13.165	13.131	26.179	0.023	0.0	2	18.5	2	1.90	2	18.9	2	1.318	2	0.668	2	76.73	2	1004	2	2191.9	2	7.6186	2	2289	2	-9	63.2	3.5	-9	-9
126	3	298.8	34.687	2	34.686	2	11.141	11.103	26.513	0.023	0.0	2	26.6	2	2.59	2	29.1	2	-9	9	-9	9	18.37	2	-9	9	-9	9	7.4347	2	-9	9	-9	-9	-9	-9	-9
125	2	349.9	34.660	2	34.658	2	9.993	9.952	26.694	0.024	0.0	2	32.7	2	2.69	2	32.4	2	0.095	2	0.053	2	12.16	2	-9	9	-9	9	7.3994	2	-9	9	-9	-9	3.3	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.2	34.620	2	34.619	2	8.952	8.908	26.835	0.024	0.0	2	36.9	2	2.73	2	34.2	2	0.036	2	0.024	2	19.83	2	-9	9	2268.7	2	7.3959	2	2298	2	-9	-9	-9	-9	-9
122	2	499.8	34.572	2	34.571	2	7.743	7.692	26.983	0.023	0.0	2	40.1	2	2.79	2	38.8	2	-9	9	-9	9	30.37	2	1745	2	2270.5	2	7.3997	2	2299	2	-9	44.9	3.0	-9	-9
121	2	599.7	34.535	2	34.534	2	6.728	6.672	27.097	0.021	0.0	2	41.9	2	2.91	2	46.5	2	0.003	6	0.001	6	40.11	2	1747	2	2275.5	2	7.4032	2	2303	2	-9	-9	-9	-9	-9
120	2	699.6	34.512	2	34.512	2	5.906	5.844	27.187	0.019	0.0	2	43.3	2	3.01	2	55.3	2	-9	9	-9	9	40.77	2	1816	2	2287.4	2	7.3903	2	2316	2	-9	-9	-9	-9	-9
119	2	799.9	34.511	2	34.510	2	5.243	5.177	27.267	0.017	0.0	2	44.4	2	3.09	2	65.2	2	0.000	2	0.000	2	45.10	2	1828	2	2298.8	2	7.3889	2	2322	2	-9	-9	2.3	-9	-9
118	2	900.4	34.520	2	34.521	2	4.710	4.637	27.336	0.015	0.0	2	43.8	2	3.08	2	77.0	2	-9	9	-9	9	52.59	2	1776	2	2304.8	2	7.4027	2	2335	2	-9	35.8	-9	-9	-9
117	2	1000.0	34.533	2	34.533	2	4.289	4.211	27.392	0.015	0.0	2	43.0	2	3.02	2	84.7	2	-0.008	2	-0.002	2	63.99	2	1700	2	2310.2	2	7.4208	2	2350	6	-9	-9	-9	-9	-9
116	2	1096.4	34.547	2	34.546	2	3.892	3.809	27.446	0.014	0.0	2	42.8	2	3.01	2	92.2	2	-9	9	-9	9	71.23	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1199.3	34.560	2	34.559	2	3.589	3.500	27.487	0.013	0.0	2	42.5	2	2.95	2	98.7	2	-9	9	-9	9	79.75	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1297.3	34.573	2	34.572	2	3.306	3.211	27.525	0.011	0.0	2	41.2	2	2.87	2	102.5	2	-9	9	-9	9	86.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1398.6	34.584	2	34.583	2	3.098	2.997	27.554	0.010	0.0	2	40.5	2	2.88	2	110.1	2	-9	9	-9	9	93.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.2	34.607	2	34.605	2	2.713	2.601	27.607	0.008	0.0	2	39.5	2	2.78	2	120.2	2	-9	9	-9	9	104.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1802.1	34.625	2	34.625	2	2.430	2.304	27.646	0.007	0.0	2	38.9	2	2.72	2	124.0	2	-9	9	-9	9	113.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1996.1	34.643	2	34.642	2	2.157	2.018	27.685	0.006	0.0	2	37.7	2	2.62	2	127.2	2	-9	9	-9	9	125.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2247.2	34.660	2	34.659	2	1.933	1.776	27.717	0.006	0.0	2	36.7	2	2.52	2	125.9	2	-9	9	-9	9	139.47	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2498.2	34.671	2	34.671	2	1.827	1.650	27.735	0.004	0.0	2	37.1	2	2.48	2	127.5	2	-9	9	-9	9	144.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	2.5	-9	-9
107	2	2746.5	34.675	2	34.674	2	1.786	1.587	27.743	0.003	0.0	2	36.5	2	2.54	2	136.3	2	-9	9	-9	9	142.31	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2999.5	34.677	2	34.675	2	1.779	1.556	27.747	0.002	0.0	2	36.6	2	2.53	2	142.8	2	0.005	2	0.000	2	140.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3250.1	34.676	2	34.676	2	1.777	1.529	27.748	0.002	0.0	2	37.1	2	2.54	2	144.4	2	-9	9	-9	9	137.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3501.1	34.676	2	34.675	2	1.782	1.508	27.750	0.002	0.0	2	37.2	2	2.54	2	144.1	2	-9	9	-9	9	136.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3745.5	34.676	2	34.676	2	1.799	1.499	27.750	0.002	0.0	2	37.5	2	2.53	2	141.8	2	-9	9	-9	9	135.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3744.3	34.676	2	34.675	2	1.799	1.499	27.750	0.002	0.0	2	37.6	2	2.53	2	141.4	2	-9	9	-9	9	136.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4035.9	34.676	2	34.675	2	1.823	1.491	27.751	0.002	0.0	2	37.0	2	2.56	2	147.5	2	-9	9	-9	9	136.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 111 DATE 4/4/94 LATITUDE 14°0.0'S Btm Depth: 4172
CAST 1 LONGITUDE 102°59.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
135	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
134	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
132	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

Note: Stopcocks inadvertently left open on PVC bottles prior to deployment of rosette. No samples were drawn from this station.

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 112 DATE 4/4/94 LATITUDE 13°30.0'S Btm Depth: 4127
CAST 1 LONGITUDE 103°0.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	36.061	2	36.062	2	25.545	25.543	23.977	0.079	0.0	2	0.9	2	0.34	2	2.3	2	1.891	2	1.024	2	206.99	2	289	2	2034.5	2	8.0878	2	2378	2	-9	-9	-9	0.091	0.030
135	2	8.9	36.062	2	36.063	2	25.547	25.545	23.976	0.079	0.0	2	0.9	2	0.32	2	3.5	2	1.890	2	1.014	2	207.33	2	-9	9	2037.7	2	8.0833	2	2378	2	1.70	67.7	5.9	-9	-9
134	2	25.5	36.061	2	36.064	2	25.495	25.489	23.993	0.086	0.0	2	0.9	2	0.34	2	3.6	2	1.898	2	1.014	2	207.25	2	-9	9	-9	9	8.0876	2	-9	9	-9	71.5	5.0	-9	-9
133	2	49.7	36.148	2	36.149	2	25.108	25.097	24.179	0.068	0.0	2	0.1	2	0.28	2	3.5	2	1.950	2	1.038	2	209.84	6	338	3	2040.2	2	8.0853	2	2387	2	-9	68.9	6.9	-9	-9
132	2	73.3	36.081	2	36.082	2	23.419	23.403	24.637	0.069	0.0	2	0.0	2	0.28	2	3.4	2	2.119	2	1.117	2	217.79	2	-9	9	-9	9	8.0798	2	-9	9	-9	-9	6.4	-9	-9
131	2	99.7	36.140	2	36.145	2	22.405	22.385	24.975	0.049	0.0	2	0.1	2	0.35	2	3.5	2	2.141	6	1.128	6	212.20	2	315	2	2060.1	2	8.0587	2	2386	2	-9	66.7	6.0	-9	-9
130	2	150.0	35.666	2	35.670	2	19.581	19.553	25.388	0.029	0.1	2	4.3	2	0.65	2	3.9	2	2.316	2	1.206	2	186.54	2	-9	9	-9	9	7.9542	2	-9	9	-9	51.9	4.6	-9	-9
129	2	200.0	35.074	2	35.071	2	15.856	15.825	25.845	0.024	0.0	2	13.2	2	1.34	2	7.7	2	2.006	2	1.024	2	123.10	2	677	2	2147.2	2	7.7747	2	2310	2	-9	-9	-9	-9	-9
128	2	250.4	34.763	2	34.761	2	12.630	12.596	26.289	0.024	0.0	2	21.2	2	2.25	2	18.9	2	0.856	2	0.442	2	37.51	2	-9	9	-9	9	7.5243	2	-9	9	-9	-9	-9	-9	-9
127	2	300.1	34.708	2	34.710	2	10.923	10.886	26.568	0.024	0.0	2	29.6	2	2.58	2	26.8	2	0.180	2	0.098	2	13.33	2	1619	2	2256.9	2	7.4301	2	2294	2	-9	57.2	3.5	-9	-9
126	2	350.4	34.681	2	34.680	2	9.693	9.653	26.761	0.024	0.0	2	33.9	2	2.54	2	30.3	2	0.060	6	0.036	6	29.76	2	-9	9	-9	9	7.4496	2	-9	9	-9	-9	-9	-9	-9
125	2	399.2	34.654	2	34.653	2	8.965	8.921	26.860	0.024	0.0	2	35.6	2	2.49	2	32.1	2	0.029	2	0.016	2	40.74	2	1510	2	2251.7	2	7.4604	2	2303	2	-9	-9	3.3	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.9	34.600	2	34.601	2	7.773	7.722	27.001	0.022	0.0	2	37.8	2	2.61	2	37.9	2	0.011	6	0.004	6	51.71	2	1515	2	-9	9	7.4603	2	-9	9	-9	-9	-9	-9	-9
122	2	601.4	34.562	2	34.561	2	7.004	6.947	27.081	0.019	0.0	2	38.9	2	2.70	2	43.5	2	-0.002	2	0.000	2	57.23	2	1547	3	2264.4	3	7.4526	2	2312	2	-9	54.9	-9	-9	-9
121	2	700.8	34.530	2	34.529	2	6.266	6.202	27.156	0.019	0.0	2	41.8	2	2.86	2	50.9	2	-0.004	2	-0.003	2	50.13	2	1679	2	2277.5	3	7.4200	2	2310	2	-9	-9	-9	-9	-9
120	2	799.8	34.517	2	34.517	2	5.563	5.494	27.234	0.017	0.0	2	43.1	2	3.03	2	59.8	2	-0.003	2	-0.003	2	47.42	2	1757	2	2291.4	3	7.4025	2	2321	2	-9	-9	-9	-9	-9
119	2	898.8	34.518	2	34.517	2	4.985	4.910	27.304	0.017	0.0	2	43.5	2	3.05	2	68.5	2	0.021	4	-0.003	2	51.98	2	1770	2	2301.5	3	7.4024	2	2331	2	-9	39.1	2.3	-9	-9
118	2	998.3	34.528	2	-9	5	4.499	4.419	27.367	0.016	0.0	2	44.2	2	3.09	2	78.5	2	0.099	4	0.130	4	61.23	2	1715	2	2308.6	3	-9	9	2344	6	-9	-9	-9	-9	-9
117	2	1198.4	34.554	2	34.552	2	3.764	3.674	27.464	0.012	0.0	2	41.7	2	2.98	2	94.7	2	-0.004	2	0.000	2	76.80	2	-9	9	-9	9	7.4446	2	-9	9	-9	-9	-9	-9	-9
116	2	1399.4	34.582	2	34.582	2	3.165	3.063	27.546	0.010	0.0	2	40.6	2	2.86	2	107.8	2	-9	9	-9	9	92.79	2	-9	9	-9	9	7.4760	2	-9	9	-9	35.9	-9	-9	-9
115	2	1601.0	34.603	2	34.602	2	2.790	2.676	27.597	0.009	0.0	2	39.8	2	2.79	2	114.9	2	-0.001	2	-0.003	2	102.72	2	-9	9	-9	9	7.4946	2	-9	9	-9	-9	-9	-9	-9
114	2	1800.6	34.623	2	34.640	4	2.455	2.329	27.643	0.006	0.0	2	39.0	2	2.69	2	121.3	2	-9	9	-9	9	114.98	2	-9	9	-9	9	7.5190	2	-9	9	-9	-9	-9	-9	-9
113	2	1998.5	34.640	2	34.656	4	2.215	2.075	27.677	0.005	0.0	2	37.9	2	2.68	2	128.9	2	-0.001	2	-0.003	2	122.11	2	-9	9	-9	9	7.5298	2	-9	9	-9	37.5	-9	-9	-9
112	2	2200.9	34.656	2	-9	5	1.995	1.841	27.708	0.004	0.0	2	38.1	2	2.66	2	135.6	2	-9	9	-9	9	133.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2400.0	34.666	2	34.665	2	1.873	1.704	27.727	0.003	0.0	2	36.7	2	2.53	2	131.0	2	-0.002	2	-0.003	2	140.39	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2600.6	34.672	2	34.671	2	1.809	1.623	27.738	0.003	0.0	2	36.9	2	2.52	2	132.0	2	-9	9	-9	9	141.78	2	-9	9	-9	9	7.5723	2	-9	9	-9	-9	-9	-9	-9
109	2	2796.8	34.675	2	34.674	2	1.783	1.580	27.743	0.003	0.0	2	36.6	2	2.52	2	135.9	2	-0.003	2	-0.003	2	141.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3000.2	34.676	2	34.675	2	1.776	1.553	27.746	0.002	0.0	2	36.5	2	2.55	2	143.0	2	-9	9	-9	9	138.56	2	-9	9	-9	9	7.5736	2	-9	9	-9	44.4	2.5	-9	-9
107	2	3197.8	34.676	2	34.675	2	1.774	1.531	27.748	0.002	0.0	2	36.8	2	2.55	2	146.8	2	-0.006	2	-0.003	2	137.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3404.5	34.675	2	34.675	2	1.777	1.514	27.749	0.002	0.0	2	37.7	2	2.57	2	145.7	2	-9	9	-9	9	135.32	2	-9	9	-9	9	7.5718	2	-9	9	-9	-9	-9	-9	-9
105	2	3601.3	34.676	2	34.676	2	1.787	1.503	27.750	0.001	0.0	2	37.6	2	2.54	2	144.3	2	-0.003	2	-0.003	2	136.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3799.3	34.676	2	34.675	2	1.797	1.492	27.751	0.001	0.0	2	37.1	2	2.58	2	146.9	2	-9	9	-9	9	135.63	2	-9	9	-9	9	7.5738	2	-9	9	-9	-9	-9	-9	-9
103	2	3995.5	34.676	2	34.677	2	1.813	1.485	27.751	0.002	0.0	2	36.8	2	2.56	2	150.2	2	-0.004	2	-0.003	2	136.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3997.6	34.676	2	34.675	2	1.813	1.485	27.751	0.002	0.0	2	37.3	2	2.57	2	149.8	2	-9	9	-9	9	136.61	2	-9	9	-9	9	7.5724	2	-9	9	-9	-9	-9	-9	-9
101	2	4180.6	34.676	2	34.675	2	1.832	1.483	27.751	0.002	0.0	2	37.5	2	2.55	2	146.4	2	0.350	4	0.001	2	136.78	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 113 DATE 4/5/94 LATITUDE 13°0.6'S Btm Depth: 4252
CAST 1 LONGITUDE 103°0.5'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.4	35.993	2	35.991	2	25.590	25.588	23.911	0.092	0.0	2	0.7	2	0.32	2	3.4	2	1.883	2	1.037	2	-9	1	293	2	2032.1	2	8.0893	2	2370	6	1.80	-9	-9	-9	-9
135	2	10.2	35.993	2	35.992	2	25.591	25.589	23.911	0.092	0.0	2	0.8	2	0.30	2	6.4	2	1.891	6	1.007	6	207.02	2	-9	9	2031.4	2	8.0874	2	2371	2	1.70	-9	-9	-9	-9
134	2	24.5	35.989	2	35.997	2	25.595	25.589	23.908	0.110	0.0	2	0.7	2	0.32	2	7.3	2	1.899	2	1.021	2	208.63	2	294	2	2032.4	2	8.0885	2	2367	2	1.70	-9	-9	-9	-9
133	2	49.9	36.182	2	36.187	2	24.099	24.088	24.510	0.072	0.0	2	0.1	2	0.28	2	7.9	2	2.018	2	1.077	2	213.31	6	304	2	2046.3	2	-9	1	2396	2	1.90	-9	-9	-9	-9
132	3	77.5	36.288	2	36.285	2	22.692	22.676	25.004	0.068	0.0	2	0.0	2	0.29	2	8.4	2	2.179	2	1.121	2	214.76	2	-9	9	-9	9	-9	9	-9	9	1.80	-9	-9	-9	-9
131	2	98.1	36.188	2	36.182	2	22.145	22.125	25.086	0.055	0.1	2	0.1	2	0.34	2	7.8	2	2.188	6	1.213	6	209.46	2	-9	9	2069.4	2	8.0482	2	2387	2	1.80	-9	-9	-9	-9
130	2	124.1	35.958	2	35.964	2	20.997	20.973	25.231	0.036	0.9	2	1.0	2	0.46	2	6.9	2	2.236	2	1.185	2	200.18	2	371	2	2081.4	2	8.0112	2	2380	2	1.60	-9	-9	-9	-9
129	3	148.7	35.623	2	35.634	2	19.328	19.301	25.420	0.026	0.0	2	4.7	2	0.66	2	7.9	2	2.319	2	1.205	2	185.00	2	-9	9	-9	9	-9	9	-9	9	1.40	-9	-9	-9	-9
128	3	198.5	35.039	2	35.043	2	15.469	15.438	25.905	0.024	0.0	2	14.7	2	1.44	2	12.9	2	1.926	2	0.979	2	110.78	2	-9	9	-9	9	-9	9	-9	9	0.70	-9	-9	-9	-9
127	2	237.3	34.782	2	34.781	2	12.831	12.799	26.264	0.024	0.0	2	21.3	2	2.28	2	23.1	2	0.861	2	0.447	2	30.10	2	1331	2	2230.5	2	7.5106	2	2294	2	0.20	-9	-9	-9	-9
126	2	300.2	34.705	2	35.043	4	10.603	10.567	26.623	0.024	0.0	2	31.2	2	2.58	2	30.8	2	0.133	6	0.074	6	15.81	2	-9	9	2256.2	2	7.4298	2	2299	2	0.10	-9	-9	-9	-9
125	2	350.9	34.678	2	34.675	2	9.529	9.489	26.786	0.024	0.0	2	34.6	2	2.55	2	33.7	2	0.066	2	0.024	2	24.68	2	1575	2	2256.1	2	7.4437	2	2307	2	0.20	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	495.9	34.602	2	34.599	2	7.852	7.802	26.991	0.022	0.0	2	37.2	2	2.56	2	41.9	2	-9	1	-9	1	53.60	2	1510	2	2254.6	2	7.4643	2	2306	2	0.30	-9	-9	-9	-9
122	2	601.6	34.560	2	34.557	2	6.989	6.932	27.081	0.021	0.0	2	39.6	2	2.65	2	47.3	2	0.002	6	0.001	6	59.21	2	1534	2	2260.4	2	7.4561	2	2316	2	0.20	-9	-9	-9	-9
121	2	703.1	34.528	2	34.525	2	6.182	6.119	27.164	0.019	0.0	2	42.0	2	2.84	2	54.1	2	-0.001	2	-0.002	2	53.42	2	1671	2	2276.5	2	7.4220	2	2328	3	0.20	-9	-9	-9	-9
120	2	794.5	34.516	2	34.514	2	5.539	5.470	27.236	0.019	0.0	2	43.3	2	2.95	2	61.9	2	-0.001	2	-0.002	2	52.41	2	1710	2	2288.5	2	7.4123	2	2323	2	0.10	-9	-9	-9	-9
119	2	895.5	34.517	2	34.515	2	4.928	4.854	27.309	0.017	0.0	2	44.2	2	3.04	2	70.7	2	0.000	2	-0.002	2	52.82	6	1775	2	2300.0	2	7.4024	2	2338	2	0.10	-9	-9	-9	-9
118	2	1000.4	34.528	2	-9	5	4.407	4.328	27.376	0.017	-9	1	-9	1	-9	1	-9	1	-0.002	2	-0.002	2	61.63	2	1709	2	2304.0	2	-9	9	2345	6	-9	-9	-9	-9	-9
117	2	1100.6	34.541	2	34.540	2	4.055	3.970	27.424	0.015	0.0	2	42.9	2	2.98	2	87.5	2	-9	9	-9	9	73.01	2	1631	2	2310.2	2	7.4369	2	2357	2	0.00	-9	-9	-9	-9
116	2	1198.9	34.556	2	34.554	2	3.708	3.618	27.471	0.013	0.0	2	42.5	2	2.94	2	94.1	2	-9	9	-9	9	78.30	2	1609	2	2315.7	2	7.4492	2	2362	2	0.00	-9	-9	-9	-9
115	2	1299.6	34.570	2	-9	5	3.404	3.308	27.513	0.012	0.0	2	42.8	2	2.98	2	102.8	2	-9	9	-9	9	86.01	2	1550	2	2318.3	2	-9	1	2381	2	0.00	-9	-9	-9	-9
114	2	1399.8	34.583	2	34.581	2	3.145	3.044	27.548	0.010	0.0	2	40.9	2	2.85	2	106.0	2	0.044	4	-0.002	2	93.80	2	1493	2	2321.1	2	7.4790	2	2379	2	-9	-9	-9	-9	-9
113	2	1600.3	34.605	2	34.603	2	2.766	2.652	27.601	0.008	0.0	2	39.7	2	2.78	2	117.0	2	-9	9	-9	9	104.15	2	1426	2	2324.4	2	7.4993	2	2387	2	0.00	-9	-9	-9	-9
112	2	1800.5	34.624	2	34.623	2	2.447	2.320	27.644	0.008	0.0	2	38.7	2	2.71	2	124.3	2	-9	9	-9	9	114.83	6	1366	2	2325.7	2	7.5186	2	2400	2	0.10	-9	-9	-9	-9
111	2	1998.8	34.638	2	34.636	2	2.233	2.093	27.674	0.005	0.0	2	38.4	2	2.65	2	126.6	2	-9	9	-9	9	124.10	2	1321	2	2325.6	2	7.5337	2	2400	2	0.00	-9	-9	-9	-9
110	2	2250.6	34.656	2	34.656	2	1.991	1.833	27.709	0.004	0.0	2	36.9	2	2.56	2	129.2	2	-9	9	-9	9	132.86	2	1263	2	2325.2	2	7.5510	2	2414	2	0.00	-9	-9	-9	-9
109	2	2498.7	34.669	2	34.667	2	1.850	1.673	27.731	0.004	0.0	2	37.0	2	2.53	2	129.4	2	0.001	2	-0.003	2	141.38	2	1216	2	2322.3	2	7.5691	2	2420	2	0.10	-9	-9	-9	-9
108	2	2748.4	34.674	2	34.673	2	1.792	1.592	27.742	0.003	0.0	2	37.0	2	2.54	2	134.0	2	-9	9	-9	9	140.40	2	1204	2	2329.8	2	7.5730	2	2419	2	0.10	-9	-9	-9	-9
107	2	2997.7	34.675	2	34.675	2	1.775	1.552	27.746	0.003	0.0	2	37.0	2	2.54	2	141.3	2	-9	9	-9	9	138.27	2	1210	2	2336.2	2	7.5719	2	2424	2	0.10	-9	-9	-9	-9
106	2	3249.2	34.674	2	34.673	2	1.764	1.517	27.748	0.004	0.0	2	37.5	2	2.55	2	149.8	2	0.000	2	0.000	2	134.76	2	1224	2	2338.8	2	7.5668	2	2427	2	0.00	-9	-9	-9	-9
105	2	3498.6	34.676	2	34.674	2	1.771	1.498	27.750	0.003	0.0	2	37.4	2	2.55	2	148.8	2	-9	9	-9	9	135.94	2	1210	2	2339.0	2	7.5721	2	2429	2	0.00	-9	-9	-9	-9
104	2	3746.3	34.676	2	34.674	2	1.786	1.486	27.751	0.003	0.0	2	37.4	2	2.56	2	147.2	2	-9	9	-9	9	135.71	2	1208	2	2339.6	2	7.5740	2	-9	5	-9	-9	-9	-9	-9
103	2	3747.9	34.676	2	34.675	2	1.786	1.486	27.751	0.003	0.0	2	37.4	2	2.54	2	145.9	2	-0.001	2	-0.003	2	135.76	2	1202	2	2338.6	2	7.5741	2	2431	2	-0.10	-9	-9	-9	-9
102	2	4000.4	34.676	2	34.675	2	1.808	1.481	27.752	0.002	0.0	2	37.3	2	2.54	2	145.7	2	-9	9	-9	9	136.81	2	1204	2	2338.2	2	7.5732	2	2429	2	-0.10	-9	-9	-9	-9
101	2	4345.0	34.676	2	34.675	2	1.846	1.478	27.752	0.002	0.0	2	37.0	2	2.56	2	145.4	2	-9	9	-9	9	136.81	2	1196	2	2337.7	2	7.5715	2	2434	2	0.00	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 114 DATE 4/5/94 LATITUDE 12°30.1'S Btm Depth: 4201
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	35.730	2	35.729	2	26.184	26.182	23.527	0.104	0.0	2	2.7	2	0.42	2	2.0	2	1.824	2	1.009	2	206.41	2	298	2	2019.4	2	8.0812	2	2357	6	-9	65.9	5.5	-9	-9
135	2	25.8	35.729	2	35.729	2	26.172	26.166	23.532	0.110	0.0	2	3.0	2	0.41	2	1.8	2	1.840	2	0.987	2	206.45	2	-9	9	-9	9	8.0849	2	-9	9	-9	63.1	5.6	-9	-9
134	2	50.3	35.984	2	36.053	3	24.233	24.222	24.321	0.122	0.0	2	0.2	2	0.29	2	1.5	2	-9	9	-9	9	214.04	2	300	3	2040.1	3	8.0774	2	2380	2	-9	78.2	6.0	-9	-9
133	2	73.4	36.160	2	36.159	2	22.145	22.130	25.063	0.069	0.0	2	0.0	2	0.30	2	1.3	2	2.166	2	1.151	2	221.34	2	-9	9	-9	9	8.0552	2	-9	9	-9	68.6	5.5	-9	-9
132	2	99.5	35.971	2	35.979	2	21.026	21.007	25.232	0.043	0.7	2	0.6	2	0.45	2	1.4	2	-9	9	-9	9	204.81	2	359	2	2079.0	2	8.0168	2	2377	2	-9	60.5	4.8	-9	-9
131	2	124.5	35.640	2	35.652	2	19.382	19.359	25.418	0.036	0.0	2	3.2	2	0.59	2	1.6	2	2.334	6	1.210	6	192.90	2	-9	9	-9	9	7.9618	2	-9	9	-9	-9	5.2	-9	-9
130	2	150.6	35.441	2	35.446	2	18.378	18.352	25.523	0.030	0.0	2	5.3	2	0.73	2	2.3	2	-9	9	-9	9	184.01	2	-9	9	-9	9	7.9251	2	-9	9	-9	-9	-9	-9	-9
129	2	199.2	34.841	2	34.839	2	13.233	13.205	26.228	0.027	0.0	2	21.5	2	2.38	2	17.2	2	0.924	6	0.481	6	16.82	2	1401	2	2238.1	2	7.4909	2	2298	2	-9	-9	-9	-9	-9
128	2	248.3	34.763	2	34.764	2	11.612	11.580	26.484	0.025	0.0	2	26.3	2	2.59	2	24.0	2	-9	9	-9	9	5.64	2	-9	9	-9	9	7.4268	2	-9	9	-9	-9	-9	-9	-9
127	2	298.2	34.750	2	34.748	2	10.673	10.637	26.646	0.028	0.0	2	31.5	2	2.55	2	26.7	2	0.098	2	0.054	2	10.57	2	1623	2	2260.4	2	7.4296	2	2304	2	-9	40.6	4.1	-9	-9
126	3	349.0	34.716	2	34.718	2	9.827	9.787	26.767	0.030	0.0	2	34.2	2	2.55	2	29.7	2	-9	9	-9	9	20.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	396.6	34.685	2	34.689	2	9.254	9.210	26.837	0.028	0.0	2	35.6	2	2.57	2	31.2	2	0.038	2	0.016	2	26.16	2	1602	2	2261.2	2	7.4388	2	2310	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.3	34.625	2	34.623	2	8.159	8.107	26.963	0.025	0.1	2	39.0	2	2.71	2	37.1	2	0.009	2	-0.002	2	30.74	2	1680	2	2268.2	2	7.4207	2	2303	2	-9	-9	-9	-9	-9
122	2	600.1	34.572	2	34.571	2	7.158	7.099	27.068	0.023	0.1	2	41.1	2	2.83	2	42.7	2	-9	9	-9	9	35.44	2	1733	2	2275.5	2	7.4092	2	2304	2	-9	38.3	2.1	-9	-9
121	2	700.7	34.534	2	34.534	2	6.258	6.194	27.160	0.021	0.0	2	42.7	2	2.92	2	49.2	2	0.008	2	0.000	2	42.27	6	1748	2	2282.9	2	7.4019	2	2312	2	-9	-9	-9	-9	-9
120	2	801.6	34.520	2	34.518	2	5.588	5.519	27.233	0.020	0.0	2	44.1	2	3.01	2	56.7	2	-9	9	-9	9	45.08	2	1791	2	2292.9	2	7.3964	2	2325	2	-9	-9	-9	-9	-9
119	2	900.5	34.520	2	34.519	2	5.011	4.937	27.302	0.018	0.0	2	44.5	2	3.06	2	65.9	2	0.003	2	-0.002	2	49.06	2	1798	2	2300.5	2	7.3951	2	2328	2	-9	-9	-9	-9	-9
118	2	1002.8	34.529	2	-9	5	4.470	4.391	27.370	0.017	0.0	2	44.2	2	3.10	2	78.7	2	-9	9	-9	9	60.49	2	1716	2	2305.7	2	-9	9	2348	6	-9	-9	-9	-9	-9
117	2	1099.3	34.542	2	34.542	2	4.065	3.980	27.424	0.016	0.0	2	41.8	2	2.96	2	86.8	2	-9	9	-9	9	73.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1203.2	34.556	2	34.555	2	3.716	3.626	27.471	0.015	0.0	2	41.8	2	2.93	2	94.2	2	-9	9	-9	9	80.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1299.6	34.569	2	34.567	2	3.441	3.345	27.509	0.013	0.0	2	40.8	2	2.89	2	101.3	2	-9	9	-9	9	85.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1399.0	34.581	2	34.582	2	3.200	3.098	27.542	0.011	0.0	2	40.9	2	2.84	2	105.7	2	-9	9	-9	9	90.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1600.6	34.603	2	34.602	2	2.804	2.690	27.596	0.010	0.0	2	39.9	2	2.79	2	114.0	2	-9	9	-9	9	103.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1801.8	34.620	2	34.618	2	2.520	2.392	27.635	0.008	0.0	2	38.8	2	2.72	2	121.6	2	-9	9	-9	9	110.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2002.0	34.637	2	34.635	2	2.269	2.129	27.670	0.006	0.0	2	38.2	2	2.66	2	128.8	2	-9	9	-9	9	120.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2250.5	34.655	2	34.653	2	2.019	1.860	27.706	0.006	0.0	2	36.4	2	2.59	2	133.8	2	-9	9	-9	9	128.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2501.7	34.668	2	34.666	2	1.857	1.679	27.730	0.005	0.0	2	36.9	2	2.53	2	134.6	2	-9	9	-9	9	137.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2749.5	34.673	2	34.671	2	1.796	1.596	27.741	0.004	0.0	2	36.9	2	2.52	2	137.7	2	-9	9	-9	9	138.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3002.5	34.676	2	34.674	2	1.774	1.551	27.746	0.004	0.0	2	37.9	2	2.55	2	139.3	2	-0.004	2	-0.002	2	138.81	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3249.8	34.675	2	34.673	2	1.771	1.523	27.748	0.003	0.0	2	37.5	2	2.56	2	143.0	2	-9	9	-9	9	137.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3498.6	34.675	2	34.674	2	1.775	1.502	27.749	0.003	0.0	2	36.9	2	2.55	2	146.8	2	-9	9	-9	9	136.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3752.3	34.676	2	34.675	2	1.787	1.487	27.751	0.002	0.0	2	37.1	2	2.54	2	149.9	2	-9	9	-9	9	136.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3999.3	34.676	2	34.676	2	1.808	1.480	27.752	0.003	0.0	2	37.5	2	2.54	2	150.9	2	0.001	2	-0.002	2	136.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4000.0	34.676	2	34.675	2	1.807	1.480	27.752	0.003	0.0	2	36.7	2	2.54	2	149.5	2	-9	9	-9	9	137.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4222.3	34.676	2	34.678	2	1.833	1.480	27.752	0.003	0.0	2	37.3	2	2.54	2	148.0	2	-9	9	-9	9	137.04	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 115 DATE 4/5/94 LATITUDE 12°0.1'S Btm Depth: 4389
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.8	35.666	2	35.667	2	26.173	26.171	23.482	0.098	0.0	2	3.4	2	0.42	2	1.9	2	1.820	2	0.997	2	209.85	2	291	2	2018.1	2	8.0789	2	2349	6	1.70	-9	-9	0.138	0.067
135	2	9.1	35.666	2	35.667	2	26.175	26.173	23.482	0.099	0.0	2	3.4	2	0.44	2	2.0	2	1.828	2	1.006	2	213.12	2	-9	9	-9	9	8.0765	2	-9	9	-9	-9	-9	-9	-9
134	2	25.8	35.664	2	35.666	2	26.175	26.169	23.482	0.104	0.0	2	3.5	2	0.43	2	2.0	2	1.839	2	0.996	2	217.81	2	-9	9	-9	9	8.0796	2	-9	9	-9	-9	-9	-9	-9
133	2	50.4	35.742	2	35.748	2	23.680	23.669	24.301	0.129	0.0	2	0.7	2	0.33	2	1.8	2	2.082	2	1.114	2	217.66	2	-9	9	-9	9	8.0650	2	-9	9	-9	-9	-9	-9	-9
132	2	73.7	35.767	2	35.772	2	21.872	21.858	24.841	0.084	0.2	2	1.6	2	0.53	2	2.0	2	2.249	2	1.172	2	207.15	2	-9	9	-9	9	8.0247	2	-9	9	-9	-9	-9	-9	-9
131	2	100.8	35.631	2	35.631	2	19.848	19.829	25.288	0.048	1.6	2	4.1	2	0.78	2	2.3	2	2.329	6	1.210	6	185.30	2	-9	9	-9	9	7.9496	2	-9	9	-9	-9	4.1	-9	-9
130	2	126.9	35.489	2	35.494	2	18.757	18.735	25.462	0.035	0.4	2	7.2	2	0.81	2	2.6	2	2.363	2	1.229	2	174.09	2	-9	9	-9	9	7.9072	2	-9	9	-9	58.9	3.9	-9	-9
129	2	150.1	35.142	2	35.142	2	16.312	16.288	25.790	0.031	0.0	2	12.5	2	1.21	2	5.3	2	2.097	2	1.088	2	132.66	6	-9	9	-9	9	7.7998	2	-9	9	-9	-9	-9	-9	-9
128	2	199.0	34.795	2	34.794	2	12.797	12.770	26.280	0.026	0.0	2	21.2	2	2.41	2	19.3	2	0.757	2	0.411	2	18.39	2	-9	9	-9	9	7.4807	2	-9	9	-9	-9	-9	-9	-9
127	2	250.6	34.782	2	34.782	2	11.478	11.446	26.524	0.025	0.0	2	28.7	2	2.53	2	25.0	2	0.173	2	0.100	2	4.39	2	-9	9	-9	9	7.4288	2	-9	9	-9	57.6	2.9	-9	-9
126	2	297.6	34.750	2	34.747	2	10.480	10.445	26.679	0.028	0.0	2	33.7	2	2.54	2	27.7	2	0.072	2	0.043	2	11.99	2	-9	9	-9	9	7.4331	2	-9	9	-9	-9	-9	-9	-9
125	2	351.9	34.720	2	34.718	2	9.769	9.729	26.780	0.031	0.0	2	36.1	2	2.57	2	30.6	2	0.037	2	0.022	2	15.65	2	-9	9	-9	9	7.4294	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	397.8	34.692	2	34.690	2	9.252	9.207	26.843	0.027	0.0	2	37.1	2	2.62	2	33.3	2	0.008	6	0.003	6	18.05	2	-9	9	-9	9	7.4213	2	-9	9	-9	-9	-9	-9	-9
122	2	498.5	34.623	2	34.621	2	8.073	8.021	26.975	0.022	0.0	2	39.9	2	2.76	2	39.0	2	0.007	2	-0.002	2	21.51	2	-9	9	-9	9	7.3994	2	-9	9	-9	-9	-9	-9	-9
121	2	601.0	34.567	2	34.565	2	7.004	6.946	27.086	0.019	0.0	2	44.5	2	2.85	2	44.4	2	-0.002	2	-0.002	2	31.01	2	-9	9	-9	9	7.3965	2	-9	9	-9	-9	1.9	-9	-9
120	2	699.7	34.534	2	34.539	3	6.207	6.144	27.166	0.018	0.0	2	44.0	2	2.92	2	50.8	2	0.004	2	0.000	2	38.01	2	-9	9	-9	9	7.3941	2	-9	9	-9	-9	-9	-9	-9
119	2	800.4	34.530	2	34.528	2	5.540	5.471	27.247	0.017	0.0	2	44.7	2	3.05	2	60.2	2	0.023	2	0.010	2	39.13	2	-9	9	-9	9	7.3867	2	-9	9	-9	-9	-9	-9	-9
118	2	899.8	34.532	2	34.530	2	5.015	4.941	27.311	0.016	0.0	2	43.9	2	3.05	2	69.9	2	0.002	2	0.002	2	49.74	6	-9	9	-9	9	7.4026	2	-9	9	-9	-9	-9	-9	-9
117	2	1001.9	34.538	2	34.536	2	4.539	4.459	27.370	0.015	0.0	2	42.9	2	2.97	2	79.2	2	0.000	2	-0.002	2	63.79	2	1633	2	-9	9	7.4293	2	-9	9	-9	-9	1.6	-9	-9
116	2	1200.6	34.555	2	34.553	2	3.808	3.717	27.461	0.011	0.0	2	41.3	2	2.89	2	92.3	2	-0.001	2	-0.002	2	82.12	2	-9	9	-9	9	7.4582	2	-9	9	-9	-9	-9	-9	-9
115	2	1400.1	34.579	2	34.578	2	3.243	3.140	27.536	0.009	0.0	2	40.3	2	2.85	2	104.4	2	-9	9	-9	9	91.25	2	-9	9	-9	9	7.4726	2	-9	9	-9	-9	-9	-9	-9
114	2	1600.7	34.603	2	34.603	2	2.810	2.696	27.596	0.009	0.0	2	39.8	2	2.79	2	113.8	2	-9	9	-9	9	100.75	2	-9	9	-9	9	7.4928	2	-9	9	-9	-9	-9	-9	-9
113	2	1798.5	34.622	2	34.621	2	2.507	2.380	27.638	0.007	0.0	2	38.4	2	2.72	2	121.8	2	-9	9	-9	9	111.00	2	-9	9	-9	9	7.5115	2	-9	9	-9	-9	-9	-9	-9
112	2	1998.3	34.638	2	34.637	2	2.261	2.121	27.672	0.006	0.0	2	38.2	2	2.66	2	129.2	2	0.008	2	-0.002	2	117.05	2	-9	9	-9	9	7.5266	2	-9	9	-9	-9	-9	-9	-9
111	2	2252.0	34.657	2	34.655	2	1.996	1.838	27.709	0.004	0.0	2	37.3	2	2.58	2	134.8	2	-9	9	-9	9	129.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2497.5	34.669	2	34.666	2	1.850	1.673	27.731	0.004	0.0	2	36.4	2	2.52	2	136.0	2	-9	9	-9	9	137.89	2	-9	9	-9	9	7.5649	2	-9	9	-9	-9	-9	-9	-9
109	2	2750.5	34.673	2	34.671	2	1.789	1.590	27.741	0.004	0.0	2	37.0	2	2.51	2	139.8	2	-9	9	-9	9	137.63	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2999.7	34.675	2	34.674	2	1.766	1.543	27.747	0.003	0.0	2	36.8	2	2.50	2	140.5	2	0.006	2	0.001	2	137.80	2	1207	2	-9	9	7.5732	2	-9	9	-9	-9	-9	-9	-9
107	2	3245.4	34.675	2	34.675	2	1.766	1.519	27.748	0.003	0.0	2	37.5	2	2.54	2	142.0	2	-9	9	-9	9	136.45	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3501.7	34.676	2	34.675	2	1.769	1.495	27.750	0.002	0.0	2	37.7	2	2.54	2	143.5	2	-9	9	-9	9	136.16	2	-9	9	-9	9	7.5721	2	-9	9	-9	-9	-9	-9	-9
105	2	3749.4	34.676	2	34.673	2	1.784	1.484	27.752	0.002	0.0	2	36.9	2	2.52	2	146.6	2	-9	9	-9	9	137.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4001.8	34.676	2	34.675	2	1.808	1.480	27.752	0.002	0.0	2	37.3	2	2.51	2	148.9	2	-9	9	-9	9	137.09	2	-9	9	-9	9	7.5741	2	-9	9	-9	-9	-9	-9	-9
103	2	4249.6	34.676	2	34.676	2	1.836	1.480	27.752	0.002	0.0	2	37.2	2	2.52	2	148.0	2	-0.003	2	0.004	2	136.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4249.8	34.676	2	34.675	2	1.836	1.479	27.752	0.002	0.0	2	37.3	2	2.51	2	146.4	2	-9	9	-9	9	137.12	2	-9	9	-9	9	7.5755	2	-9	9	-9	-9	-9	-9	-9
101	2	4433.0	34.676	2	34.675	2	1.857	1.479	27.752	0.002	0.0	2	37.0	2	2.52	2	145.9	2	0.110	4	0.192	4	137.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 116 DATE 4/5/94 LATITUDE 11°30.3'S Btm Depth: 4096
CAST 1 LONGITUDE 103°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.0	35.527	2	35.528	2	26.673	26.671	23.220	0.092	0.1	2	3.8	2	0.48	2	2.7	2	1.820	2	0.973	2	207.06	6	304	2	2018.2	2	8.0729	2	2341	6	-9	-9	-9	-9	-9
135	2	23.7	35.517	2	35.519	2	26.514	26.509	23.264	0.106	0.1	2	4.2	2	0.50	2	2.5	2	1.812	2	0.986	2	206.59	2	-9	9	-9	9	8.0710	2	-9	9	-9	-9	-9	-9	-9
134	2	49.0	35.721	2	35.729	2	26.039	26.028	23.569	0.116	0.0	2	3.0	2	0.45	2	2.3	2	1.840	2	1.003	2	207.98	2	303	2	2023.4	2	8.0797	2	2354	2	-9	-9	-9	-9	-9
133	2	75.5	35.833	2	35.835	2	22.290	22.275	24.774	0.086	0.0	2	0.6	2	0.42	2	2.2	2	2.153	2	1.148	2	210.09	2	-9	9	-9	9	8.0554	2	-9	9	-9	-9	-9	-9	-9
132	2	98.6	35.701	2	35.737	3	20.000	19.982	25.301	0.048	1.4	2	3.0	2	0.68	2	2.3	2	2.288	6	1.197	6	188.51	2	409	2	2091.6	2	7.9712	2	2355	2	-9	-9	-9	-9	-9
131	2	123.8	35.400	2	35.401	2	18.131	18.110	25.551	0.035	0.0	2	8.6	2	0.93	2	3.2	2	2.328	2	1.197	2	165.99	2	-9	9	2117.0	2	7.8843	2	2338	2	-9	-9	-9	-9	-9
130	2	148.4	34.995	2	35.000	2	15.213	15.191	25.926	0.029	0.0	2	12.9	2	1.34	2	6.6	2	-9	1	-9	1	124.04	6	705	2	-9	9	7.7656	2	-9	9	-9	-9	-9	-9	-9
129	2	173.5	34.831	2	34.833	2	13.191	13.167	26.228	0.027	0.0	2	20.8	2	2.38	2	17.3	2	-9	1	-9	1	18.88	2	-9	9	2238.8	2	7.4965	2	2297	2	-9	-9	-9	-9	-9
128	3	201.6	34.808	2	34.809	2	12.145	12.119	26.417	0.024	0.0	2	25.3	2	2.53	2	22.1	2	0.359	2	0.197	2	6.49	2	-9	9	2253.7	2	-9	9	2301	2	-9	-9	-9	-9	-9
127	2	225.6	34.804	2	34.802	2	11.537	11.509	26.530	0.024	0.0	2	29.0	2	2.49	2	24.6	2	0.214	2	0.115	2	9.56	2	-9	9	-9	9	7.4530	2	-9	9	-9	-9	-9	-9	-9
126	2	249.5	34.792	2	34.790	2	11.086	11.055	26.604	0.025	0.0	2	31.4	2	2.45	2	26.4	2	0.139	6	0.076	6	17.46	2	1508	2	2251.8	2	7.4605	2	2303	2	-9	-9	-9	-9	-9
125	2	300.6	34.757	2	34.759	2	10.285	10.250	26.720	0.026	0.0	2	33.9	2	2.46	2	29.0	2	0.074	2	0.041	2	22.33	2	1509	2	2253.1	2	7.4610	2	2299	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	351.4	34.725	2	34.722	2	9.765	9.725	26.784	0.027	0.0	2	35.4	2	2.58	2	31.6	2	0.035	6	0.023	6	16.28	2	-9	9	-9	9	7.4322	2	-9	9	-9	-9	-9	-9	-9
122	2	399.6	34.690	2	34.687	2	9.179	9.135	26.853	0.026	0.0	2	37.2	2	2.63	2	33.6	2	0.016	2	0.007	2	18.64	2	1677	2	2266.8	2	7.4203	2	2303	2	-9	-9	-9	-9	-9
121	2	496.8	34.624	2	34.623	2	7.998	7.947	26.987	0.024	0.0	2	41.0	2	2.83	2	39.5	2	-9	9	-9	9	18.44	2	1787	2	2279.6	2	7.3914	2	2305	2	-9	-9	-9	-9	-9
120	2	597.6	34.568	2	34.567	2	6.948	6.891	27.093	0.022	0.0	2	42.9	2	2.99	2	45.9	2	0.000	2	-0.002	2	20.56	2	1890	2	2288.8	2	7.3725	2	2310	2	-9	-9	-9	-9	-9
119	2	697.8	34.543	2	34.542	2	6.158	6.096	27.179	0.020	0.0	2	44.5	2	3.07	2	55.6	2	-9	9	-9	9	24.52	2	1915	2	2298.9	2	7.3652	2	2317	2	-9	-9	-9	-9	-9
118	2	802.5	34.533	2	34.532	2	5.477	5.409	27.257	0.019	0.0	2	44.9	2	3.07	2	63.7	2	-9	9	-9	9	35.95	2	1873	2	2303.4	2	7.3788	2	2327	2	-9	-9	-9	-9	-9
117	2	898.8	34.534	2	34.533	2	4.930	4.856	27.322	0.017	0.0	2	43.9	2	3.07	2	71.9	2	-9	9	-9	9	48.99	2	1747	2	2303.1	2	7.4043	2	2347	2	-9	-9	-9	-9	-9
116	2	1000.3	34.538	2	34.538	2	4.489	4.409	27.375	0.016	0.0	2	42.3	2	2.95	2	80.5	2	-9	9	-9	9	69.92	2	1602	2	2300.4	2	7.4407	2	2349	6	-9	-9	-9	-9	-9
115	2	1197.3	34.557	2	34.556	2	3.849	3.757	27.459	0.013	0.0	2	42.4	2	2.95	2	94.6	2	-9	9	-9	9	77.13	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1398.2	34.578	2	34.578	2	3.296	3.193	27.530	0.010	0.0	2	40.8	2	2.87	2	104.9	2	-9	9	-9	9	89.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1600.1	34.602	2	34.601	2	2.824	2.710	27.593	0.008	0.0	2	40.0	2	2.79	2	114.0	2	-9	9	-9	9	102.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1803.4	34.621	2	34.620	2	2.526	2.399	27.635	0.008	0.0	2	39.7	2	2.74	2	121.5	2	-9	9	-9	9	109.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2000.6	34.638	2	34.637	2	2.279	2.138	27.670	0.008	0.0	2	38.5	2	2.70	2	132.9	2	-9	9	-9	9	114.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2249.5	34.655	2	34.655	2	2.033	1.874	27.705	0.006	0.0	2	37.6	2	2.63	2	138.4	2	-9	9	-9	9	125.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2499.7	34.667	2	34.666	2	1.874	1.696	27.728	0.005	0.0	2	37.1	2	2.54	2	137.9	2	-9	9	-9	9	134.98	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2750.0	34.672	2	34.672	2	1.800	1.601	27.740	0.004	0.0	2	37.1	2	2.55	2	140.2	2	-9	9	-9	9	147.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2998.5	34.675	2	34.672	2	1.778	1.555	27.745	0.004	0.0	2	37.3	2	2.54	2	140.2	2	-9	9	-9	9	137.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3249.6	34.675	2	34.674	2	1.762	1.515	27.748	0.003	0.0	2	37.2	2	2.56	2	147.0	2	-9	9	-9	9	136.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3499.1	34.676	2	34.675	2	1.766	1.493	27.750	0.003	0.0	2	36.7	2	2.54	2	150.8	2	-9	9	-9	9	136.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3750.2	34.676	2	34.675	2	1.781	1.481	27.752	0.003	0.0	2	37.2	2	2.54	2	151.2	2	-9	9	-9	9	136.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3999.6	34.676	2	34.678	2	1.806	1.478	27.752	0.003	0.0	2	37.3	2	2.51	2	149.2	2	-9	9	-9	9	136.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	3	3999.6	34.676	2	34.677	2	1.806	1.478	27.752	0.003	0.0	2	37.3	2	2.53	2	147.7	2	-9	9	-9	9	136.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4138.2	34.677	2	34.676	2	1.820	1.476	27.752	0.003	0.0	2	37.1	2	2.52	2	147.4	2	-9	9	-9	9	136.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 117 DATE 4/6/94 LATITUDE 11°0.0'S Btm Depth: 4248
CAST 1 LONGITUDE 103°0.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	35.510	2	35.512	2	26.595	26.593	23.232	0.115	0.1	2	4.4	2	0.50	2	2.2	2	1.819	2	0.988	2	205.89	2	304	2	2014.9	2	8.0707	2	2342	6	1.60	67.0	6.1	-9	-9
135	2	25.1	35.509	2	35.511	2	26.604	26.598	23.229	0.119	0.1	2	4.4	2	0.49	2	2.2	2	1.805	6	0.990	6	205.77	2	-9	9	2016.3	2	8.0687	2	2343	2	1.60	70.3	5.7	-9	-9
134	2	48.3	35.747	2	35.730	2	25.923	25.912	23.625	0.137	0.0	2	2.8	2	0.41	2	1.7	2	1.881	2	1.016	2	212.73	2	297	2	2019.4	3	8.0816	2	2365	2	1.70	68.7	5.7	-9	-9
133	2	74.1	36.029	2	36.028	2	22.769	22.754	24.785	0.094	0.0	2	0.3	2	0.35	2	1.5	2	2.148	2	1.142	2	216.03	2	-9	9	2050.9	2	8.0634	2	2373	2	1.80	67.7	5.8	-9	-9
132	2	98.5	35.911	2	35.904	2	20.832	20.813	25.239	0.051	1.3	2	1.4	2	0.54	2	1.4	2	2.273	2	1.178	2	199.51	2	372	2	2083.5	2	7.9979	2	2368	2	1.60	62.6	5.0	-9	-9
131	3	123.4	35.550	2	0.000	5	18.930	18.908	25.465	0.039	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	2	149.8	35.071	2	35.079	2	15.808	15.785	25.852	0.031	0.0	2	12.7	2	1.32	2	5.7	2	2.068	2	1.043	2	129.77	2	655	2	2142.0	2	7.7858	2	2315	2	0.90	55.1	3.2	-9	-9
129	2	198.0	34.818	2	34.834	2	12.383	12.357	26.379	0.025	0.0	2	24.7	2	2.54	2	21.5	2	0.436	2	0.239	2	7.81	2	1507	2	2249.9	3	7.4585	2	2297	2	0.00	48.0	3.7	-9	-9
128	2	251.1	34.783	2	34.781	2	11.002	10.971	26.612	0.026	0.0	2	31.6	2	2.44	2	25.0	2	0.147	2	0.077	2	20.87	2	-9	9	2247.7	2	7.4681	2	2299	2	-9	-9	-9	-9	-9
127	2	300.3	34.757	2	34.756	2	10.285	10.249	26.720	0.026	0.0	2	34.5	2	2.51	2	28.7	2	0.069	6	0.038	6	20.07	2	1524	2	2256.0	2	7.4531	2	2301	2	0.20	52.4	2.8	-9	-9
126	2	350.2	34.726	2	34.724	2	9.717	9.677	26.792	0.026	0.0	2	35.8	2	2.59	2	31.9	2	0.043	2	0.022	2	18.86	2	-9	9	2262.9	2	7.4358	2	2306	2	-9	-9	-9	-9	-9
125	2	400.8	34.688	2	34.685	2	9.080	9.036	26.868	0.025	0.0	2	37.1	2	2.65	2	34.1	2	0.021	2	0.008	2	22.43	2	1644	2	2266.7	2	7.4275	2	2299	2	0.10	48.1	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.8	34.631	2	34.629	2	8.114	8.062	26.975	0.024	0.0	2	39.9	2	2.82	2	38.3	2	0.004	6	0.000	6	21.43	2	1754	2	2276.3	2	7.4000	2	2305	2	0.10	-9	-9	-9	-9
122	2	601.2	34.580	2	34.575	3	7.115	7.057	27.080	0.020	0.0	2	43.1	2	3.01	2	44.8	2	0.000	2	-0.002	2	20.17	2	1872	2	-9	9	7.3760	2	2309	2	-9	43.7	-9	-9	-9
121	3	698.8	34.548	2	34.548	2	6.234	6.170	27.173	0.017	0.0	2	45.2	2	3.12	2	52.3	2	0.002	2	-0.002	2	25.80	2	-9	9	2297.7	2	7.3692	2	2311	2	0.10	-9	-9	-9	-9
120	2	801.4	34.534	2	34.533	2	5.569	5.500	27.247	0.016	0.0	2	44.2	2	3.11	2	61.0	2	0.001	2	-0.002	2	37.98	2	1831	2	2301.3	2	7.3854	2	2324	2	-9	41.4	-9	-9	-9
119	2	901.8	34.532	2	34.531	2	4.967	4.893	27.317	0.015	0.0	2	42.4	2	3.06	2	71.4	2	0.000	2	-0.002	2	54.59	6	1735	4	2301.2	2	7.4116	2	2339	2	0.10	44.1	-9	-9	-9
118	2	1000.1	34.539	2	-9	9	4.496	4.416	27.375	0.013	-9	1	-9	1	-9	1	-9	1	-0.001	2	-0.002	2	67.79	2	1638	2	2301.5	2	-9	9	2341	2	0.10	-9	-9	-9	-9
117	2	1100.4	34.546	2	34.546	2	4.154	4.068	27.418	0.013	0.0	2	41.4	2	2.92	2	87.1	2	-9	9	-9	9	76.68	2	1588	2	2305.5	2	7.4511	2	2352	2	-9	-9	-9	-9	-9
116	2	1199.4	34.558	2	34.558	2	3.787	3.697	27.466	0.012	0.0	2	41.3	2	2.86	2	93.6	2	-9	9	-9	9	84.58	2	1534	2	2309.9	2	7.4625	2	2362	2	0.10	-9	-9	-9	-9
115	2	1261.7	34.565	2	34.565	2	3.596	3.502	27.491	0.011	0.0	2	41.3	2	2.89	2	98.1	2	-9	9	-9	9	83.64	2	1560	2	2317.4	2	7.4610	2	2372	2	-9	-9	-9	-9	-9
114	2	1400.0	34.582	2	34.582	2	3.251	3.148	27.538	0.010	0.0	2	41.3	2	2.87	2	106.0	2	-9	9	-9	9	89.48	2	1530	2	2323.7	2	7.4701	2	2380	2	0.00	39.9	-9	-9	-9
113	2	1601.0	34.604	2	34.604	2	2.778	2.665	27.599	0.007	0.0	2	39.9	2	2.76	2	113.7	2	-0.002	2	-0.002	2	105.25	6	1438	2	2324.8	2	7.4973	2	2389	2	0.10	-9	-9	-9	-9
112	2	1800.4	34.624	2	34.624	2	2.464	2.338	27.643	0.006	0.0	2	39.7	2	2.73	2	121.1	2	-9	9	-9	9	111.93	2	1392	3	2330.0	2	7.5133	2	2399	2	-9	-9	-9	-9	-9
111	2	2000.3	34.639	2	34.638	2	2.266	2.125	27.672	0.006	0.0	2	38.9	2	2.70	2	128.3	2	-9	9	-9	9	115.40	2	1365	2	2333.9	2	7.5212	2	2403	2	0.00	41.1	-9	-9	-9
110	2	2251.2	34.654	2	34.653	2	2.048	1.889	27.703	0.005	0.0	2	38.1	2	2.64	2	135.0	2	-9	9	-9	9	124.09	2	1312	2	2333.2	2	7.5389	2	2412	2	-9	-9	-9	-9	-9
109	2	2500.3	34.666	2	35.341	4	1.875	1.697	27.728	0.005	0.1	2	12.9	4	1.13	4	22.3	4	-9	9	-9	9	121.02	3	636	4	2140.8	3	-9	9	-9	5	1.00	-9	-9	-9	-9
108	2	2747.1	34.672	2	34.672	2	1.799	1.600	27.739	0.004	0.0	2	37.2	2	2.54	2	139.6	2	-0.002	2	-0.002	2	140.53	2	1218	2	2333.4	2	7.5655	2	2422	2	-9	-9	-9	-9	-9
107	2	2999.4	34.674	2	34.674	2	1.776	1.553	27.745	0.004	0.0	2	37.7	2	2.54	2	140.0	2	-9	9	-9	9	137.09	2	1222	2	2335.2	2	7.5691	2	2421	2	0.00	36.9	-9	-9	-9
106	2	3249.6	34.674	2	34.674	2	1.766	1.518	27.747	0.003	0.0	2	37.6	2	2.55	2	141.8	2	-9	9	-9	9	136.91	2	1230	2	2338.3	2	7.5686	2	-9	5	-9	-9	-9	-9	-9
105	2	3496.3	34.675	2	34.675	2	1.772	1.500	27.750	0.003	0.0	2	37.9	2	2.57	2	142.1	2	-9	9	-9	9	136.14	6	1214	2	2338.4	2	7.5714	2	2428	2	0.00	-9	-9	-9	-9
104	2	3750.8	34.676	2	34.675	2	1.783	1.484	27.751	0.003	0.0	2	37.9	2	2.57	2	142.7	2	-9	9	-9	9	135.44	2	1206	2	2339.0	2	7.5730	2	2432	2	-9	-9	-9	-9	-9
103	2	3750.8	34.676	2	34.676	2	1.784	1.484	27.751	0.003	0.0	2	37.9	2	2.56	2	146.2	2	-0.002	2	-0.002	2	136.96	2	1203	2	2338.4	2	7.5737	2	-9	5	-9	-9	-9	-9	-9
102	2	3997.4	34.676	2	34.675	2	1.803	1.476	27.752	0.003	0.0	2	37.9	2	2.54	2	149.0	2	-9	9	-9	9	137.46	2	1203	2	2339.4	2	7.5726	2	-9	5	0.10	-9	-9	-9	-9
101	2	4294.4	34.676	2	-9	9	1.836	1.475	27.752	0.003	0.0	2	38.3	2	2.62	2	153.6	2	-9	9	-9	9	137.51	2	1207	2	2338.9	2	-9	9	2431	2	0.00	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 118 DATE 4/6/94 LATITUDE 10°30.4'S Btm Depth: 4684
CAST 1 LONGITUDE 103°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.4	35.505	2	35.505	2	26.601	26.599	23.226	0.100	0.1	2	3.8	2	0.46	2	2.1	2	1.808	2	0.986	2	205.25	2	311	2	2018.4	2	8.0705	2	2342	2	-9	-9	-9	-9	-9
135	2	25.6	35.505	2	35.506	2	26.605	26.600	23.225	0.111	0.1	2	4.1	2	0.46	2	2.2	2	1.872	2	1.008	2	205.17	2	-9	9	-9	9	8.0714	2	-9	9	-9	-9	-9	-9	-9
134	2	49.5	35.529	2	35.537	2	26.529	26.518	23.270	0.111	0.1	2	4.0	2	0.46	2	2.1	2	1.841	2	0.994	2	206.36	6	312	2	2017.8	2	8.0695	2	2344	2	-9	-9	-9	-9	-9
133	2	74.4	35.941	2	35.952	2	22.976	22.961	24.659	0.082	0.1	2	0.6	2	0.39	2	1.6	2	2.102	2	1.119	2	206.51	2	-9	9	-9	9	8.0596	2	-9	9	-9	-9	-9	-9	-9
132	2	100.8	35.911	2	35.915	2	21.049	21.029	25.180	0.049	0.9	2	1.4	2	0.53	2	1.5	2	2.265	2	1.188	2	197.90	2	371	2	2082.5	2	8.0043	2	2372	2	-9	-9	-9	-9	-9
131	2	126.0	35.516	2	35.552	3	18.771	18.748	25.480	0.036	0.3	2	6.5	2	0.79	2	2.3	2	2.303	2	1.197	2	174.15	2	-9	9	-9	9	7.9171	2	-9	9	-9	-9	-9	-9	-9
130	2	148.1	34.972	2	34.994	2	14.889	14.867	25.980	0.029	0.0	2	14.1	2	1.43	2	6.8	2	1.906	2	0.963	2	112.68	2	-9	9	-9	9	7.7406	2	-9	9	-9	-9	-9	-9	-9
129	2	200.5	34.810	2	34.809	2	12.014	11.988	26.444	0.030	0.0	2	25.4	2	2.55	2	22.9	2	0.296	6	0.160	6	4.80	2	1586	2	2256.4	2	7.4433	2	2296	2	-9	-9	-9	-9	-9
128	2	249.5	34.779	2	34.778	2	10.850	10.819	26.636	0.024	0.0	2	31.4	2	2.40	2	25.1	2	0.142	2	0.078	2	25.82	2	-9	9	-9	9	7.4773	2	-9	9	-9	-9	-9	-9	-9
127	2	299.2	34.751	2	34.749	2	10.155	10.120	26.737	0.024	0.0	2	34.6	2	2.44	2	29.2	2	0.068	2	0.041	2	24.45	2	1506	2	2252.4	2	7.4607	2	2301	2	-9	-9	-9	-9	-9
126	2	348.4	34.729	2	34.727	2	9.771	9.731	26.786	0.025	0.0	2	37.3	2	2.53	2	31.3	2	0.049	2	0.023	2	22.01	2	-9	9	-9	9	7.4447	2	-9	9	-9	-9	-9	-9	-9
125	2	400.9	34.698	2	34.697	2	9.292	9.247	26.842	0.025	0.0	2	37.4	2	2.75	2	36.5	2	0.014	2	0.004	2	4.53	2	1799	2	2278.3	2	7.3881	2	2304	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	500.3	34.631	2	34.629	2	8.104	8.052	26.976	0.025	0.0	2	40.9	2	2.86	2	39.9	2	0.003	2	0.001	2	12.30	2	1840	2	2281.5	2	7.3804	2	2305	2	-9	-9	-9	-9	-9
122	2	596.5	34.575	2	34.575	2	7.093	7.035	27.079	0.021	0.0	2	43.4	2	2.96	2	44.3	2	-9	9	-9	9	20.52	2	1881	2	2287.4	2	7.3743	2	2314	2	-9	-9	-9	-9	-9
121	2	701.1	34.544	2	34.543	2	6.121	6.059	27.185	0.021	0.0	2	44.5	2	3.05	2	54.5	2	-9	9	-9	9	26.81	2	1906	2	2297.0	2	7.3708	2	2316	2	-9	-9	-9	-9	-9
120	2	800.0	34.533	2	34.532	2	5.423	5.355	27.263	0.019	0.0	2	44.0	2	3.02	2	63.4	2	-9	9	-9	9	41.97	2	1826	2	2300.2	2	7.3911	2	2326	2	-9	-9	-9	-9	-9
119	2	900.8	34.534	2	34.534	2	4.880	4.807	27.328	0.017	0.0	2	43.4	2	3.01	2	72.4	2	-9	9	-9	9	52.60	6	1761	2	2303.7	2	7.4065	2	2342	2	-9	-9	-9	-9	-9
118	2	1001.0	34.539	2	34.539	2	4.500	4.421	27.375	0.015	0.0	2	43.0	2	2.98	2	78.3	2	-9	9	-9	9	65.43	2	1672	2	2304.8	2	-9	9	2342	2	-9	-9	-9	-9	-9
117	2	1148.9	34.554	2	34.554	2	3.882	3.795	27.453	0.015	0.0	2	41.1	2	2.89	2	89.9	2	-9	9	-9	9	82.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1302.2	34.574	2	34.572	2	3.412	3.316	27.516	0.012	0.0	2	40.5	2	2.88	2	104.1	2	-9	9	-9	9	87.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1598.9	34.606	2	34.606	2	2.806	2.692	27.598	0.010	0.0	2	39.9	2	2.81	2	121.3	2	-9	9	-9	9	97.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1794.6	34.624	2	34.625	2	2.490	2.364	27.641	0.008	0.0	2	39.4	2	2.71	2	126.7	2	-9	9	-9	9	109.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1993.9	34.638	2	34.637	2	2.280	2.140	27.671	0.007	0.0	2	38.6	2	2.68	2	131.4	2	-9	9	-9	9	115.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2247.5	34.654	2	34.653	2	2.060	1.901	27.702	0.006	0.0	2	38.1	2	2.65	2	138.5	2	-9	9	-9	9	120.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2500.3	34.665	2	34.664	2	1.899	1.720	27.725	0.005	0.0	2	37.6	2	2.60	2	144.9	2	-9	9	-9	9	127.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2750.8	34.670	2	34.670	2	1.816	1.616	27.737	0.005	0.0	2	37.2	2	2.58	2	145.2	2	-9	9	-9	9	131.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2999.6	34.672	2	34.673	2	1.778	1.555	27.743	0.004	0.0	2	37.3	2	2.56	2	146.6	2	-9	9	-9	9	133.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3200.3	34.674	2	34.674	2	1.768	1.525	27.746	0.004	0.0	2	37.1	2	2.55	2	145.9	2	-9	9	-9	9	132.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3498.1	34.675	2	34.675	2	1.768	1.495	27.750	0.003	0.0	2	37.0	2	2.55	2	146.0	2	-9	9	-9	9	136.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3748.3	34.676	2	34.677	2	1.781	1.482	27.752	0.003	0.0	2	36.8	2	2.56	2	147.5	2	-9	9	-9	9	137.60	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3997.2	34.676	2	34.678	2	1.801	1.474	27.752	0.003	0.0	2	37.0	2	2.55	2	146.8	2	-9	9	-9	9	137.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4250.6	34.676	2	34.676	2	1.826	1.469	27.753	0.003	0.0	2	36.8	2	2.54	2	148.7	2	-9	9	-9	9	138.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4501.8	34.677	2	34.679	2	1.852	1.465	27.753	0.003	0.0	2	36.9	2	2.53	2	150.4	2	-9	9	-9	9	137.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4500.8	34.677	2	34.677	2	1.851	1.465	27.753	0.003	0.0	2	37.0	2	2.54	2	149.8	2	-9	9	-9	9	138.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4754.3	34.677	2	34.676	2	1.883	1.465	27.753	0.003	0.0	2	37.1	2	2.54	2	147.7	2	-9	9	-9	9	138.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 119 DATE 4/6/94 LATITUDE 10°0.2'S Btm Depth: 4556
CAST 1 LONGITUDE 102°60.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C patm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.1	35.236	2	35.237	2	27.083	27.081	22.869	0.075	0.0	2	3.4	2	0.45	2	1.5	2	1.749	2	0.965	2	203.00	2	299	2	1996.7	2	8.0809	2	2318	6	1.70	-9	-9	0.102	0.040
135	2	25.5	35.402	2	35.338	3	26.847	26.841	23.071	0.094	0.0	2	3.6	2	0.45	2	1.5	2	1.772	2	0.968	2	204.44	2	-9	9	-9	9	8.0785	2	-9	9	-9	-9	-9	0.126	0.063
134	2	50.0	35.546	2	35.548	2	26.281	26.270	23.361	0.116	0.1	2	3.9	2	0.49	2	2.1	2	1.828	2	0.992	2	207.31	2	-9	9	-9	9	8.0681	2	-9	9	-9	-9	-9	0.312	0.151
133	2	75.6	35.967	2	35.951	2	22.827	22.811	24.722	0.062	0.1	2	0.9	2	0.48	2	1.7	2	2.091	2	1.112	2	200.04	2	-9	9	-9	9	8.0455	2	-9	9	-9	-9	-9	0.224	0.229
132	2	99.1	35.893	2	35.897	2	21.074	21.055	25.159	0.041	1.0	6	1.5	6	0.57	6	1.5	6	2.215	6	1.175	6	193.18	6	-9	9	-9	9	7.9990	2	-9	9	-9	65.0	5.0	0.148	0.172
131	2	125.7	35.549	2	35.555	2	19.073	19.050	25.428	0.035	1.0	2	6.3	2	0.85	2	2.4	2	2.304	2	1.208	2	171.93	2	-9	9	-9	9	7.9133	2	-9	9	-9	63.2	4.4	0.105	0.135
130	2	143.5	35.276	2	35.276	2	17.284	17.260	25.664	0.032	0.0	2	10.6	2	1.11	2	4.0	2	2.190	2	1.107	2	143.78	2	-9	9	-9	9	7.8349	2	-9	9	-9	-9	-9	-9	-9
129	2	199.6	34.813	2	34.815	2	12.548	12.521	26.343	0.025	0.0	2	24.0	2	2.42	2	19.2	2	0.595	6	0.314	6	14.79	2	-9	9	-9	9	7.4777	2	-9	9	-9	-9	-9	0.007	0.009
128	2	250.1	34.778	2	34.779	2	10.902	10.872	26.626	0.026	0.0	2	32.1	2	2.45	2	25.6	2	0.019	2	0.005	2	22.34	2	-9	9	-9	9	7.4696	2	-9	9	-9	-9	-9	0.003	0.008
127	2	301.2	34.754	2	34.753	2	10.217	10.182	26.728	0.027	0.0	2	34.3	2	2.53	2	30.6	2	0.063	6	0.032	6	19.85	2	-9	9	-9	9	7.4507	2	-9	9	-9	43.3	3.4	0.002	0.008
126	2	399.6	34.702	2	34.702	2	9.320	9.275	26.841	0.026	0.0	2	36.8	2	2.68	2	36.1	2	0.024	2	0.010	2	17.81	2	-9	9	-9	9	7.4200	2	-9	9	-9	-9	-9	-9	-9
125	2	501.8	34.635	2	34.635	2	8.196	8.143	26.966	0.022	0.0	2	39.5	2	2.78	2	39.2	2	0.009	2	0.001	2	21.69	2	-9	9	-9	9	7.4041	2	-9	9	-9	43.2	3.1	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	598.4	34.578	2	34.577	2	7.129	7.071	27.077	0.019	0.0	2	43.1	2	2.98	2	45.7	2	0.006	2	-0.002	2	20.91	2	-9	9	-9	9	7.3750	2	-9	9	-9	-9	-9	-9	-9
122	2	699.5	34.548	2	34.547	2	6.233	6.169	27.174	0.019	0.0	2	44.5	2	3.08	2	54.4	2	-0.002	2	-0.002	2	25.27	2	-9	9	-9	9	7.3687	2	-9	9	-9	-9	-9	-9	-9
121	2	797.5	34.535	2	34.534	2	5.592	5.523	27.244	0.017	0.0	2	44.4	2	3.06	2	61.4	2	-0.002	2	-0.002	2	39.53	2	-9	9	-9	9	7.3876	2	-9	9	-9	-9	-9	-9	-9
120	2	900.8	34.534	2	34.534	2	4.873	4.799	27.329	0.015	0.0	6	42.7	6	2.98	6	74.3	6	0.001	2	-0.002	2	61.39	2	-9	9	-9	9	7.4253	2	-9	9	-9	-9	-9	-9	-9
119	2	999.4	34.539	2	34.539	2	4.488	4.409	27.376	0.015	0.0	2	42.1	2	2.92	2	80.4	2	-9	9	-9	9	74.19	2	-9	9	-9	9	7.4486	2	-9	9	-9	51.9	-9	-9	-9
118	2	1201.6	34.560	2	34.560	2	3.744	3.653	27.472	0.013	0.0	2	40.2	2	2.83	2	95.8	2	0.000	2	-0.002	2	90.47	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	1400.5	34.584	2	34.585	2	3.174	3.073	27.547	0.011	0.0	2	39.9	2	2.80	2	107.3	2	-9	9	-9	9	97.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1599.9	34.608	2	34.608	2	2.757	2.643	27.604	0.010	0.0	2	39.6	2	2.77	2	117.0	2	-9	9	-9	9	104.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1800.5	34.626	2	34.626	2	2.473	2.347	27.643	0.008	0.0	2	38.6	2	2.74	2	125.9	2	-0.003	2	-0.002	2	109.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	2003.0	34.639	2	34.640	2	2.263	2.122	27.673	0.007	0.0	2	38.4	2	2.69	2	131.2	2	-9	9	-9	9	115.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	2196.5	34.651	2	34.652	2	2.103	1.948	27.696	0.007	0.0	2	38.4	2	2.66	2	134.5	2	-9	9	-9	9	119.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2400.6	34.660	2	34.660	2	1.976	1.805	27.714	0.006	0.0	2	37.8	2	2.65	2	139.0	2	-0.005	2	-0.002	2	123.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2598.1	34.667	2	34.666	2	1.869	1.683	27.730	0.005	0.0	2	36.6	2	2.58	2	140.3	2	-9	9	-9	9	132.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2798.5	34.670	2	34.670	2	1.806	1.602	27.738	0.005	0.0	2	37.2	2	2.58	2	144.9	2	-9	9	-9	9	130.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2999.5	34.672	2	34.671	2	1.790	1.567	27.742	0.005	0.0	6	37.0	6	2.56	6	142.6	6	0.001	2	-0.002	2	132.54	2	1243	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	3201.8	34.673	2	34.673	2	1.771	1.529	27.746	0.004	0.0	2	37.4	2	2.58	2	142.1	2	-9	9	-9	9	135.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3400.7	34.675	2	34.675	2	1.761	1.499	27.750	0.004	0.0	2	37.0	2	2.58	2	146.8	2	-9	9	-9	9	136.94	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3599.4	34.676	2	34.675	2	1.765	1.482	27.751	0.004	0.0	2	36.7	2	2.56	2	149.4	2	0.000	2	-0.002	2	137.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3798.9	34.676	2	34.677	2	1.779	1.474	27.752	0.003	0.0	2	36.6	2	2.57	2	148.9	2	-9	9	-9	9	137.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	4001.2	34.677	2	34.675	2	1.797	1.470	27.753	0.004	0.0	2	36.9	2	2.54	2	147.0	2	-9	9	-9	9	137.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4298.6	34.677	2	34.677	2	1.828	1.466	27.753	0.003	0.0	2	36.7	2	2.53	2	146.0	2	0.116	4	0.221	4	137.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4296.6	34.677	2	34.675	2	1.828	1.466	27.753	0.003	0.0	2	37.2	2	2.54	2	145.0	2	-9	9	-9	9	139.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4642.1	34.677	2	34.675	2	1.868	1.465	27.753	0.003	0.0	6	37.1	6	2.56	6	146.5	6	-0.001	2	-0.002	2	138.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 120 DATE 4/6/94 LATITUDE 9°37.1'S Btm Depth: 4364
CAST 1 LONGITUDE 103°34.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.3	35.135	2	35.146	2	27.174	27.171	22.765	0.089	0.1	2	3.5	2	0.46	2	1.8	2	1.750	2	0.973	2	202.41	2	297	2	1993.2	2	8.0768	2	2315	6	-9	-9	-9	-9	-9
135	2	23.0	35.144	2	35.146	2	27.177	27.172	22.771	0.111	0.1	2	3.8	2	0.45	2	1.8	2	1.754	2	0.966	2	200.84	2	-9	9	-9	9	8.0755	2	-9	9	-9	-9	-9	-9	-9
134	2	51.2	35.606	2	35.592	2	26.422	26.410	23.362	0.120	0.1	2	3.5	2	0.45	2	1.9	2	1.836	2	0.993	2	208.44	2	306	2	2016.4	2	8.0739	2	2340	2	-9	-9	-9	-9	-9
133	2	74.4	35.891	2	35.888	2	24.221	24.205	24.255	0.083	0.0	2	0.7	2	0.35	2	1.3	2	2.022	2	1.091	2	215.69	2	-9	9	-9	9	8.0790	2	-9	9	-9	-9	-9	-9	-9
132	3	99.3	36.001	2	36.010	2	21.974	21.955	24.991	0.042	0.5	2	1.0	2	0.51	2	1.4	2	-9	1	-9	1	195.08	2	360	2	2077.8	2	-9	9	2401	2	-9	-9	-9	-9	-9
131	2	126.0	35.717	2	35.739	2	19.897	19.873	25.342	0.034	0.7	2	3.9	2	0.63	2	1.5	2	2.207	6	1.165	6	185.17	2	-9	9	2096.3	2	7.9588	2	2361	2	-9	-9	-9	-9	-9
130	2	153.0	35.162	2	35.170	2	16.408	16.383	25.784	0.031	0.0	2	11.2	2	1.14	2	4.3	2	2.127	2	1.092	2	142.12	2	611	2	-9	9	7.8203	2	-9	9	-9	-9	-9	-9	-9
129	2	176.1	34.969	2	34.973	2	14.746	14.719	26.009	0.028	0.0	2	16.1	2	1.64	2	8.3	2	1.724	2	0.877	2	90.74	2	-9	9	2174.0	2	7.6921	2	2312	2	-9	-9	-9	-9	-9
128	3	201.4	34.841	2	34.847	2	13.271	13.243	26.221	0.024	0.0	2	21.4	2	2.34	2	16.3	2	1.018	2	0.503	2	22.55	2	1353	2	2233.9	2	-9	9	2303	2	-9	-9	-9	-9	-9
127	2	248.9	34.794	2	34.795	2	11.522	11.490	26.525	0.026	0.0	2	29.2	2	2.51	2	24.2	2	0.202	2	0.114	2	9.87	2	1555	2	2253.3	2	7.4508	2	2299	2	-9	-9	-9	-9	-9
126	2	294.6	34.780	2	34.781	2	10.736	10.700	26.658	0.029	0.0	2	32.7	2	2.45	2	27.5	2	0.100	6	0.056	6	18.65	2	1517	2	2251.5	2	7.4610	2	2305	2	-9	-9	-9	-9	-9
125	2	349.8	34.735	2	34.734	2	9.981	9.940	26.756	0.029	0.0	2	34.8	2	2.53	2	30.3	2	0.049	2	0.023	2	18.30	2	-9	9	-9	9	7.4416	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	407.7	34.693	2	34.692	2	9.218	9.173	26.850	0.027	0.0	2	36.8	2	2.64	2	33.9	2	0.015	2	0.009	2	16.66	2	1692	2	2266.5	2	7.4185	2	2309	2	-9	-9	-9	-9	-9
122	2	406.5	34.694	2	34.693	2	9.229	9.184	26.849	0.027	0.0	2	36.6	2	2.63	2	33.9	2	-9	9	-9	9	16.57	2	-9	9	2266.9	2	7.4186	2	2309	2	-9	-9	-9	-9	-9
121	2	407.5	34.693	2	34.694	2	9.219	9.173	26.849	0.027	0.0	2	37.1	2	2.65	2	34.0	2	-9	9	-9	9	16.60	2	-9	9	2267.6	2	7.4177	2	2298	2	-9	-9	-9	-9	-9
120	2	701.1	34.548	2	34.548	2	6.158	6.095	27.183	0.019	0.0	2	43.0	2	2.98	2	54.0	2	-9	9	-9	9	33.54	2	1831	2	2291.4	2	7.3882	2	2319	2	-9	-9	-9	-9	-9
119	2	793.0	34.536	2	34.535	2	5.430	5.362	27.264	0.017	0.0	2	43.7	2	2.97	2	63.7	2	-9	9	-9	9	49.12	2	1746	2	2294.4	2	7.4090	2	2325	2	-9	-9	-9	-9	-9
118	2	901.6	34.536	2	34.536	2	4.856	4.783	27.332	0.017	0.0	2	42.7	2	2.92	2	73.1	2	-9	9	-9	9	63.80	2	1651	2	2297.6	2	7.4331	2	2344	2	-9	-9	-9	-9	-9
117	2	987.7	34.538	2	34.538	2	4.586	4.507	27.365	0.014	0.0	2	41.8	2	2.89	2	78.9	2	-9	9	-9	9	70.87	2	1613	2	2299.0	2	7.4448	2	2350	6	-9	-9	-9	-9	-9
116	2	1203.6	34.560	2	34.560	2	3.709	3.619	27.475	0.012	0.0	2	40.4	2	2.81	2	95.5	2	-9	9	-9	9	91.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1397.0	34.585	2	34.585	2	3.195	3.094	27.545	0.011	0.0	2	40.3	2	2.80	2	108.6	2	-9	9	-9	9	95.04	2	1477	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1598.4	34.608	2	34.608	2	2.766	2.653	27.603	0.010	0.0	2	40.0	2	2.77	2	119.7	2	-9	9	-9	9	101.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1790.8	34.625	2	34.626	2	2.487	2.361	27.642	0.010	0.0	2	39.1	2	2.72	2	127.9	2	-9	9	-9	9	107.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1993.6	34.637	2	34.638	2	2.309	2.168	27.667	0.008	0.0	2	39.2	2	2.69	2	134.8	2	-9	9	-9	9	112.21	2	1370	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	2243.0	34.653	2	34.653	2	2.087	1.928	27.699	0.007	0.0	2	38.7	2	2.67	2	141.9	2	-9	9	-9	9	116.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2493.0	34.663	2	34.664	2	1.923	1.744	27.722	0.006	0.0	2	38.2	2	2.61	2	142.2	2	-9	9	-9	9	125.11	2	1271	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2739.7	34.669	2	34.670	2	1.820	1.621	27.736	0.005	0.0	2	37.9	2	2.58	2	143.9	2	-9	9	-9	9	130.14	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2995.3	34.674	2	34.673	2	1.781	1.558	27.744	0.005	0.0	2	37.8	2	2.55	2	142.1	2	-9	9	-9	9	135.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	3250.5	34.675	2	34.675	2	1.761	1.513	27.748	0.004	0.0	2	37.5	2	2.55	2	146.5	2	-9	9	-9	9	135.77	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3499.2	34.676	2	34.676	2	1.764	1.491	27.751	0.004	0.0	2	37.3	2	2.53	2	151.0	2	-9	9	-9	9	137.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3750.9	34.676	2	34.676	2	1.779	1.479	27.752	0.004	0.0	2	37.7	2	2.54	2	149.9	2	-9	9	-9	9	136.64	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3996.8	34.677	2	34.676	2	1.796	1.469	27.753	0.004	0.0	2	38.1	2	2.53	2	148.6	2	-9	9	-9	9	137.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	4249.0	34.677	2	34.678	2	1.821	1.465	27.754	0.004	0.0	2	37.7	2	2.52	2	149.9	2	-9	9	-9	9	137.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4248.5	34.677	2	34.678	2	1.821	1.465	27.753	0.004	0.0	2	37.3	2	2.53	2	150.4	2	-9	9	-9	9	138.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4500.0	34.677	2	34.676	2	1.847	1.461	27.754	0.004	0.0	2	37.7	2	2.51	2	150.5	2	-9	9	-9	9	138.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 121 DATE 4/7/94 LATITUDE 9°14.1'S Btm Depth: 4098
CAST 1 LONGITUDE 104°8.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.0	35.008	2	35.005	2	27.224	27.222	22.653	0.073	0.1	2	3.0	2	0.42	2	2.1	2	1.749	2	0.967	2	201.76	2	296	2	1988.7	2	8.0752	2	2306	6	1.60	66.9	5.7	-9	-9
135	2	28.9	35.386	2	35.172	4	26.924	26.917	23.035	0.095	0.1	2	3.7	2	0.45	2	2.2	2	1.770	2	0.949	2	203.83	2	299	2	1998.6	2	8.0744	2	-9	5	-9	69.5	5.3	-9	-9
134	2	50.8	35.466	2	35.467	2	26.259	26.248	23.307	0.120	0.1	2	4.2	2	0.49	2	2.6	2	1.845	2	0.993	2	207.37	2	309	2	2018.6	2	8.0635	2	2337	2	-9	70.1	5.4	-9	-9
133	2	74.9	35.771	2	35.693	3	23.815	23.799	24.285	0.119	0.2	2	2.8	2	0.55	2	2.4	2	2.007	6	1.072	6	198.24	2	334	2	2047.4	2	8.0330	2	2362	3	-9	71.7	6.8	-9	-9
132	2	100.1	35.985	2	35.984	2	22.571	22.551	24.810	0.049	0.3	2	0.9	2	0.51	2	1.8	2	2.119	2	1.123	2	198.98	2	338	2	2066.4	2	8.0342	2	2372	2	-9	71.4	6.5	-9	-9
131	2	123.6	35.784	2	35.788	2	20.427	20.403	25.253	0.035	1.3	2	2.8	2	0.65	2	1.9	2	2.271	2	1.200	2	188.90	2	400	2	2093.1	2	7.9725	2	2360	2	-9	63.1	4.7	-9	-9
130	2	154.1	35.158	2	35.169	2	16.296	16.271	25.807	0.030	0.0	2	13.0	2	1.31	2	5.6	2	1.998	2	1.029	2	120.14	2	668	2	2150.4	2	7.7814	2	2320	2	-9	49.0	4.0	-9	-9
129	2	175.4	34.979	2	34.978	2	14.309	14.283	26.111	0.027	0.0	2	18.8	2	1.82	2	10.7	2	1.382	6	0.711	6	64.38	2	953	2	2193.6	2	7.6393	2	2301	2	-9	-9	-9	-9	-9
128	2	194.9	34.907	2	34.910	2	13.444	13.417	26.236	0.024	0.0	2	21.4	2	2.03	2	14.0	2	0.982	2	0.513	2	44.12	2	1119	2	2211.3	2	7.5785	2	2299	2	-9	49.2	-9	-9	-9
127	2	247.7	34.824	2	34.827	2	11.666	11.635	26.522	0.024	0.0	2	27.9	2	2.22	2	20.6	2	0.407	2	0.178	2	38.15	2	1266	2	2230.2	2	7.5283	2	2298	2	-9	-9	-9	-9	-9
126	2	302.2	34.789	2	34.790	2	10.664	10.627	26.678	0.024	0.0	2	29.9	2	2.15	2	23.8	2	0.204	2	0.107	2	60.89	3	1197	2	2222.0	2	7.5557	2	2304	2	-9	42.1	3.9	-9	-9
125	2	350.2	34.738	2	34.736	2	9.946	9.905	26.764	0.024	0.0	2	34.6	2	2.45	2	29.3	2	0.067	2	0.030	2	29.69	2	1482	2	2251.0	2	7.4675	2	2301	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.6	34.713	2	34.713	2	9.505	9.460	26.819	0.024	0.0	2	35.8	2	2.50	2	31.6	2	0.042	2	0.023	2	28.85	2	1540	2	2253.5	2	7.4542	2	2301	2	-9	-9	-9	-9	-9
122	2	502.4	34.640	2	34.640	2	8.294	8.241	26.955	0.022	0.0	2	39.8	2	2.74	2	38.0	2	0.006	2	0.000	2	19.26	2	1753	2	2273.5	2	7.4019	2	2303	2	-9	45.1	2.3	-9	-9
121	2	595.1	34.585	2	34.586	2	7.184	7.126	27.074	0.020	0.0	2	42.8	2	2.92	2	45.0	2	0.000	2	-0.002	2	23.96	2	1830	2	2282.4	2	7.3891	2	2311	2	-9	-9	-9	-9	-9
120	2	698.6	34.548	2	34.548	2	6.260	6.197	27.170	0.017	0.0	2	44.4	2	3.00	2	52.5	2	0.001	2	-0.002	2	30.42	2	1858	2	2292.5	2	7.3812	2	2317	2	-9	41.2	-9	-9	-9
119	2	799.1	34.534	2	34.534	2	5.382	5.314	27.269	0.017	0.0	2	43.3	2	2.94	2	64.8	2	-0.005	2	-0.002	2	50.91	2	1733	2	2294.7	2	7.4117	2	2327	2	-9	46.1	-9	-9	-9
118	2	899.5	34.536	2	34.537	2	4.842	4.769	27.333	0.017	0.0	2	42.4	2	2.88	2	72.8	2	-9	9	-9	9	68.19	2	1609	6	2294.9	2	7.4416	2	2337	2	-9	-9	-9	-9	-9
117	2	1001.5	34.542	2	34.543	2	4.366	4.287	27.392	0.015	0.0	2	41.7	2	2.85	2	80.9	2	-9	9	-9	9	78.69	2	1548	2	2300.4	2	7.4561	2	2346	6	-9	41.6	2.4	-9	-9
116	2	1195.9	34.565	2	34.565	2	3.709	3.619	27.479	0.013	0.0	2	40.6	2	2.82	2	97.4	2	-9	9	-9	9	87.13	2	1520	2	2312.1	2	7.4699	2	2365	2	-9	-9	-9	-9	-9
115	2	1400.9	34.588	2	34.589	2	3.168	3.066	27.550	0.010	0.0	2	39.4	2	2.77	2	111.7	2	-9	9	-9	9	96.94	2	1462	2	2320.7	2	7.4876	2	-9	5	-9	-9	-9	-9	-9
114	2	1699.4	34.619	2	34.620	2	2.596	2.477	27.627	0.010	0.0	2	39.3	2	2.71	2	126.9	2	-9	9	-9	9	105.45	2	1419	2	2332.9	2	7.5043	2	2398	2	-9	-9	-9	-9	-9
113	2	1798.3	34.626	2	34.626	2	2.494	2.367	27.642	0.010	0.0	2	39.2	2	2.70	2	127.9	2	-9	9	-9	9	106.71	2	1407	2	2334.9	2	7.5070	2	2404	2	-9	-9	-9	-9	-9
112	2	1998.7	34.638	2	34.639	2	2.293	2.152	27.670	0.008	0.0	2	38.7	2	2.67	2	134.9	2	-9	9	-9	9	111.18	6	1377	2	2339.3	2	7.5169	2	2405	2	-9	42.2	-9	-9	-9
111	2	2202.9	34.651	2	34.651	2	2.101	1.946	27.696	0.007	0.0	2	38.5	2	2.65	2	139.1	2	-9	9	-9	9	117.46	2	1334	2	2339.1	2	7.5298	2	2413	2	-9	-9	-9	-9	-9
110	2	2398.9	34.659	2	34.660	2	1.979	1.808	27.713	0.007	0.0	2	38.1	2	2.59	2	141.0	2	-9	9	-9	9	122.08	2	1308	2	2339.8	2	7.5392	2	2419	2	-9	-9	-9	-9	-9
109	2	2593.1	34.665	2	34.667	2	1.884	1.697	27.727	0.005	0.0	2	37.7	2	2.56	2	142.4	2	-9	9	-9	9	127.84	2	1274	2	2337.6	2	7.5502	2	2423	2	-9	-9	-9	-9	-9
108	2	2801.0	34.670	2	34.671	2	1.812	1.607	27.737	0.005	0.0	2	37.4	2	2.53	2	145.0	2	-9	9	-9	9	129.15	2	1251	2	2338.4	2	7.5574	2	2424	2	-9	-9	-9	-9	-9
107	2	2999.3	34.672	2	34.673	2	1.777	1.555	27.743	0.005	0.0	2	37.6	2	2.55	2	145.3	2	-9	9	-9	9	133.27	2	1234	2	2338.6	2	7.5618	2	2428	2	-9	38.2	-9	-9	-9
106	2	3200.3	34.674	2	34.675	2	1.759	1.517	27.747	0.004	0.0	2	37.3	2	2.53	2	146.6	2	-9	9	-9	9	135.42	2	1223	2	2338.6	2	7.5654	2	2425	2	-9	-9	-9	-9	-9
105	2	3401.8	34.676	2	34.676	2	1.748	1.485	27.751	0.006	0.0	2	36.8	2	2.51	2	148.8	2	-9	9	-9	9	137.25	2	1217	2	2338.0	2	7.5680	2	2424	2	-9	-9	-9	-9	-9
104	2	3601.9	34.676	2	34.677	2	1.756	1.473	27.752	0.004	0.0	2	36.8	2	2.51	2	150.0	2	-9	9	-9	9	137.71	2	1208	2	2339.1	2	7.5726	2	2433	2	-9	-9	-9	-9	-9
103	2	3789.5	34.677	2	34.678	2	1.771	1.467	27.753	0.004	0.0	2	37.0	2	2.50	2	148.4	2	-9	9	-9	9	137.74	2	1197	2	2337.3	2	7.5738	2	2432	2	-9	-9	-9	-9	-9
102	2	3789.3	34.677	2	34.677	2	1.771	1.467	27.753	0.004	0.0	2	37.1	2	2.49	2	146.0	2	-9	9	-9	9	138.22	2	1202	2	2338.1	2	7.5737	2	2431	2	-9	-9	-9	-9	-9
101	2	4076.6	34.676	2	34.677	2	1.803	1.467	27.753	0.004	0.0	2	37.3	2	2.53	2	145.3	2	-9	9	-9	9	138.41	6	1197	2	2338.7	2	7.5709	2	2437	2	-9	35.3	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 122 DATE 4/7/94 LATITUDE 8°51.2'S Btm Depth: 3690
CAST 1 LONGITUDE 104°41.7'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	34.879	2	34.881	2	27.492	27.490	22.469	0.090	0.0	6	2.8	6	0.41	6	2.1	6	1.737	2	0.950	2	202.35	2	298	2	1982.6	2	8.0757	2	2307	6	-9	-9	-9	0.167	0.067
135	2	26.4	34.877	2	34.880	2	27.483	27.477	22.472	0.092	0.0	2	2.9	2	0.40	2	2.1	2	1.733	2	0.951	2	202.70	2	-9	9	-9	9	8.0780	2	-9	9	-9	-9	-9	0.168	0.074
134	2	49.3	35.407	2	35.410	2	26.700	26.689	23.124	0.086	0.1	2	4.3	2	0.48	2	2.3	2	1.815	2	0.976	2	209.53	2	306	2	2015.7	2	8.0648	2	2335	2	-9	-9	-9	0.228	0.119
133	2	73.8	35.851	2	35.830	2	23.877	23.861	24.327	0.068	0.1	2	1.4	2	0.44	2	1.8	2	2.014	2	1.088	2	204.61	2	-9	9	-9	9	8.0608	2	-9	9	-9	-9	-9	0.291	0.263
132	2	100.6	35.950	2	35.925	3	21.351	21.331	25.126	0.046	0.8	2	1.4	2	0.54	2	1.7	2	2.204	6	1.176	6	195.92	2	365	2	2081.9	3	8.0077	2	2369	2	-9	67.6	5.6	0.191	0.221
131	2	123.7	35.358	2	35.366	2	17.753	17.732	25.612	0.039	0.4	2	12.0	2	1.20	2	4.4	2	2.069	2	1.058	2	126.90	2	-9	9	2143.8	2	7.8202	2	2328	2	-9	54.0	4.2	0.138	0.176
130	2	151.3	34.987	2	34.996	2	13.962	13.940	26.189	0.032	0.0	2	25.2	2	2.13	2	14.7	2	0.977	2	0.491	2	23.37	2	-9	9	-9	9	7.5501	2	-9	9	-9	-9	-9	0.029	0.041
129	2	176.2	34.925	2	34.927	2	12.828	12.804	26.374	0.024	0.0	2	29.6	2	2.33	2	22.3	2	0.408	2	0.208	2	9.25	2	-9	9	2241.7	2	7.4956	2	2301	2	-9	-9	-9	0.008	0.014
128	2	199.8	34.886	2	34.889	2	12.206	12.179	26.466	0.025	0.0	2	31.2	2	2.30	2	24.1	2	0.281	6	0.155	6	14.89	2	1374	2	2240.5	2	7.4942	2	2302	2	-9	46.7	3.5	0.005	0.013
127	2	225.4	34.869	2	34.870	2	11.957	11.928	26.501	0.027	0.0	2	31.9	2	2.31	2	24.9	2	0.233	2	0.128	2	-9	1	-9	9	-9	9	7.4891	2	-9	9	-9	-9	-9	-9	-9
126	2	249.6	34.854	2	34.854	2	11.742	11.710	26.531	0.029	0.0	2	32.8	2	2.39	2	26.2	2	0.185	2	0.098	2	9.75	2	-9	9	2251.4	3	7.4671	2	2302	2	-9	-9	-9	-9	-9
125	2	301.7	34.820	2	34.820	2	11.195	11.157	26.607	0.025	0.0	2	33.6	2	2.45	2	28.0	2	0.127	6	0.068	6	9.33	2	1543	2	2255.8	3	7.4538	2	2300	2	-9	49.2	1.4	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	351.5	34.792	2	34.792	2	10.735	10.692	26.668	0.025	0.0	2	34.6	2	2.48	2	30.3	2	0.083	2	0.043	2	10.41	6	-9	9	-9	9	7.4438	2	-9	9	-9	-9	-9	-9	-9
122	2	400.9	34.751	2	34.751	2	10.113	10.066	26.746	0.025	0.0	2	35.9	2	2.58	2	32.7	2	0.040	2	0.017	2	9.31	2	1668	2	2268.5	3	7.4224	2	2310	2	-9	-9	-9	-9	-9
121	2	500.2	34.659	2	34.658	2	8.620	8.566	26.920	0.022	0.0	2	40.3	2	2.77	2	37.7	2	0.004	2	0.001	2	10.78	2	1819	2	2281.2	3	7.3886	2	2302	2	-9	-9	-9	-9	-9
120	2	597.7	34.590	2	34.590	2	7.254	7.195	27.069	0.020	0.0	2	43.8	2	2.94	2	45.3	2	0.003	2	-0.002	2	-9	1	1902	2	2292.1	3	7.3708	2	2307	2	-9	-9	-9	-9	-9
119	2	701.8	34.553	2	34.552	2	6.254	6.190	27.175	0.017	0.0	2	44.3	2	2.98	2	54.1	2	-0.001	2	-0.002	2	30.49	2	1845	2	2294.1	3	7.3835	2	2321	2	-9	-9	-9	-9	-9
118	2	802.3	34.540	2	34.540	2	5.505	5.436	27.259	0.017	0.0	2	43.4	2	2.92	2	65.1	2	0.000	2	-0.002	2	51.14	2	1716	2	2293.2	3	7.4157	2	2330	2	-9	-9	-9	-9	-9
117	2	900.5	34.537	2	34.537	2	4.948	4.874	27.323	0.015	0.0	2	42.6	2	2.85	2	72.6	2	-9	9	-9	9	67.61	2	1611	2	2294.9	3	7.4426	2	2333	2	-9	-9	-9	-9	-9
116	2	1000.5	34.542	2	34.543	2	4.478	4.399	27.380	0.013	0.0	2	41.6	2	2.81	2	80.1	2	-9	9	-9	9	79.59	2	1548	2	2295.7	3	7.4625	2	2348	6	-9	43.3	-9	-9	-9
115	2	1098.8	34.551	2	34.550	2	4.077	3.992	27.429	0.012	0.0	2	41.0	2	2.80	2	86.9	2	0.000	2	0.000	2	86.91	2	-9	9	-9	9	7.4738	2	-9	9	-9	-9	-9	-9	-9
114	2	1201.2	34.559	2	34.558	2	3.797	3.706	27.465	0.012	0.0	2	40.9	2	2.79	2	92.1	2	-9	9	-9	9	90.48	6	-9	9	-9	9	7.4782	2	-9	9	-9	-9	-9	-9	-9
113	2	1304.1	34.571	2	34.570	2	3.484	3.387	27.506	0.010	0.0	2	40.4	2	2.79	2	100.4	2	-9	9	-9	9	93.32	2	-9	9	-9	9	7.4796	2	-9	9	-9	-9	-9	-9	-9
112	2	1396.7	34.585	2	34.586	2	3.178	3.077	27.547	0.010	0.0	2	40.6	2	2.78	2	107.7	2	0.001	2	0.000	2	95.73	2	-9	9	-9	9	7.4856	2	-9	9	-9	-9	-9	-9	-9
111	2	1599.6	34.609	2	34.610	2	2.742	2.629	27.606	0.008	0.0	2	39.9	2	2.74	2	120.0	2	-9	9	-9	9	103.05	2	-9	9	-9	9	7.4985	2	-9	9	-9	-9	-9	-9	-9
110	2	1800.9	34.628	2	34.628	2	2.453	2.327	27.647	0.008	0.0	2	39.8	2	2.70	2	129.8	2	-9	9	-9	9	106.46	2	-9	9	-9	9	7.5058	2	-9	9	-9	-9	-9	-9	-9
109	2	1997.4	34.642	2	34.643	2	2.235	2.096	27.677	0.007	0.0	2	39.2	2	2.67	2	134.3	2	0.004	2	0.002	2	111.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2249.3	34.654	2	34.655	2	2.053	1.894	27.703	0.006	0.0	2	39.0	2	2.61	2	137.8	2	-9	9	-9	9	116.77	2	-9	9	-9	9	7.5325	2	-9	9	-9	-9	-9	-9	-9
107	2	2501.2	34.664	2	34.663	2	1.895	1.716	27.724	0.006	0.0	2	38.8	2	2.58	2	141.4	2	-9	9	-9	9	125.29	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2752.0	34.669	2	34.669	2	1.813	1.613	27.737	0.005	0.0	2	38.2	2	2.55	2	144.9	2	0.001	2	-0.002	2	129.26	2	-9	9	-9	9	7.5554	2	-9	9	-9	-9	-9	-9	-9
105	2	2999.6	34.673	2	34.672	2	1.775	1.552	27.744	0.004	0.0	2	37.3	2	2.52	2	148.4	2	-9	9	-9	9	134.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3249.5	34.675	2	34.676	2	1.753	1.506	27.749	0.004	0.0	2	37.5	2	2.52	2	151.2	2	-9	9	-9	9	135.63	2	-9	9	-9	9	7.5701	2	-9	9	-9	-9	-9	-9	-9
103	2	3501.2	34.676	2	34.678	2	1.754	1.481	27.752	0.004	0.0	2	37.7	2	2.50	2	149.5	2	-0.003	2	0.007	2	136.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3503.0	34.676	2	34.675	2	1.753	1.480	27.752	0.004	0.0	2	38.2	2	2.51	2	147.7	2	-9	9	-9	9	137.43	2	-9	9	-9	9	7.5710	2	-9	9	-9	-9	-9	-9	-9
101	2	3753.7	34.677	2	34.678	2	1.760	1.461	27.754	0.005	0.0	2	37.6	2	2.48	2	147.5	2	-0.004	2	0.002	2	138.48	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 123 DATE 4/7/94 LATITUDE 8°27.8'S Btm Depth: 3664
CAST 2 LONGITUDE 105°15.6'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
224	2	7.2	34.959	2	-9	9	27.687	27.685	22.466	-9	0.0	2	2.2	2	0.37	2	1.0	2	1.729	2	0.942	2	203.08	6	-9	9	1980.6	2	-9	9	2304	2	-0.60	-9	-9	-9	-9
223	2	24.0	34.953	2	34.957	2	27.656	27.650	22.473	-9	0.0	2	2.0	2	0.37	2	0.9	2	1.731	2	0.961	2	202.66	2	-9	9	-9	9	8.0894	2	-9	9	-9	-9	-9	-9	-9
222	2	51.2	35.513	2	35.516	2	26.016	26.004	23.419	-9	0.1	2	4.6	2	0.55	2	2.2	2	1.872	2	1.041	2	208.10	2	-9	9	-9	9	8.0497	2	-9	9	-9	-9	-9	-9	-9
221	2	100.5	35.542	2	35.553	2	19.221	19.203	25.383	-9	1.8	2	7.1	2	0.94	2	2.8	2	2.200	2	1.157	2	152.51	2	-9	9	-9	9	7.8875	2	-9	9	-9	-9	-9	-9	-9
220	2	148.7	34.995	2	35.007	2	14.185	14.163	26.149	-9	0.0	2	24.6	2	2.09	2	14.2	2	1.015	2	0.525	2	24.02	2	-9	9	-9	9	7.5548	2	-9	9	-9	-9	-9	-9	-9
219	2	201.5	34.890	2	34.893	2	12.311	12.284	26.449	-9	0.0	2	29.4	2	2.28	2	22.6	2	0.313	2	0.168	2	17.05	2	-9	9	-9	9	7.5001	2	-9	9	-9	-9	-9	-9	-9
218	2	300.0	34.822	2	34.823	2	11.204	11.166	26.607	-9	0.0	2	32.9	2	2.35	2	27.6	2	0.139	2	0.076	2	15.77	2	-9	9	-9	9	7.4699	2	-9	9	-9	-9	-9	-9	-9
217	2	399.2	34.758	2	34.759	2	10.231	10.183	26.731	-9	0.0	2	34.6	2	2.54	2	33.0	2	0.051	2	0.026	2	9.76	2	-9	9	-9	9	7.4255	2	-9	9	-9	-9	-9	-9	-9
216	2	502.4	34.666	2	34.664	2	8.756	8.701	26.904	-9	0.0	2	38.9	2	2.74	2	38.2	2	0.005	2	0.003	2	8.92	6	-9	9	-9	9	7.3862	2	-9	9	-9	-9	-9	-9	-9
215	2	598.5	34.602	2	34.603	2	7.590	7.530	27.030	-9	0.0	2	42.2	2	2.87	2	43.6	2	0.001	2	-0.002	2	13.72	2	-9	9	-9	9	7.3703	2	-9	9	-9	-9	-9	-9	-9
214	2	701.6	34.560	2	34.559	2	6.528	6.463	27.145	-9	0.0	2	44.4	2	2.96	2	51.0	2	-0.001	2	0.000	2	23.47	2	-9	9	-9	9	7.3727	2	-9	9	-9	-9	-9	-9	-9
213	2	799.8	34.538	2	34.538	2	5.668	5.598	27.237	-9	0.0	2	43.9	2	2.93	2	59.8	2	0.009	2	0.002	2	43.01	2	-9	9	-9	9	7.3978	2	-9	9	-9	-9	-9	-9	-9
212	2	898.7	34.533	2	34.534	2	5.136	5.061	27.298	-9	0.0	2	43.6	2	2.91	2	66.6	2	-9	9	-9	9	55.79	2	-9	9	-9	9	7.4179	2	-9	9	-9	-9	-9	-9	-9
211	2	999.4	34.539	2	34.540	2	4.537	4.457	27.371	-9	0.0	2	42.2	2	2.84	2	78.0	2	0.001	2	0.002	2	73.13	2	-9	9	-9	9	7.4497	2	-9	9	-9	-9	-9	-9	-9
210	2	1201.7	34.560	2	34.562	2	3.770	3.679	27.469	-9	0.0	2	40.7	2	2.78	2	96.0	2	-9	9	-9	9	89.44	2	-9	9	-9	9	7.4759	2	-9	9	-9	-9	-9	-9	-9
209	2	1397.3	34.589	2	-9	9	3.120	3.019	27.555	-9	0.0	2	41.1	2	2.83	2	116.0	2	0.005	2	0.010	2	95.67	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
208	2	1597.3	34.610	2	34.610	2	2.734	2.622	27.607	-9	0.0	2	39.4	2	2.68	2	121.2	2	-9	9	-9	9	104.10	2	-9	9	-9	9	7.5013	2	-9	9	-9	-9	-9	-9	-9
207	2	1898.2	34.634	2	34.638	3	2.338	2.205	27.662	-9	0.0	2	39.4	2	2.64	2	130.1	2	0.000	2	-0.001	2	113.06	2	-9	9	-9	9	7.5184	2	-9	9	-9	-9	-9	-9	-9
206	2	2193.9	34.650	2	34.651	2	2.094	1.939	27.696	-9	0.0	2	38.6	2	2.60	2	135.6	2	-9	9	-9	9	119.80	2	-9	9	-9	9	7.5346	2	-9	9	-9	-9	-9	-9	-9
205	2	2498.2	34.663	2	34.664	2	1.911	1.733	27.722	-9	0.0	2	38.3	2	2.56	2	141.5	2	-0.003	2	0.002	2	125.34	2	-9	9	-9	9	7.5456	2	-9	9	-9	-9	-9	-9	-9
204	2	2795.0	34.670	2	34.671	2	1.796	1.592	27.739	-9	0.0	2	37.7	2	2.53	2	147.9	2	-9	9	-9	9	131.07	2	-9	9	-9	9	7.5596	2	-9	9	-9	-9	-9	-9	-9
203	2	3096.4	34.674	2	34.675	2	1.751	1.519	27.747	-9	0.0	2	37.6	2	2.50	2	150.2	2	-0.001	2	-0.001	2	134.84	2	-9	9	-9	9	7.5664	2	-9	9	-9	-9	-9	-9	-9
202	2	3401.4	34.676	2	34.677	2	1.748	1.485	27.751	-9	0.0	2	37.6	2	2.48	2	149.5	2	-9	9	-9	9	136.47	2	-9	9	-9	9	7.5717	2	-9	9	-9	-9	-9	-9	-9
201	2	3685.4	34.676	2	-9	9	1.762	1.470	27.753	-9	0.0	2	38.6	2	2.54	2	152.2	2	-0.003	2	0.003	2	138.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 124 DATE 4/8/94 LATITUDE 8°4.7'S Btm Depth: 3476
CAST 1 LONGITUDE 105°49.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C atm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	8.4	34.927	2	34.931	2	27.616	27.614	22.465	-9	0.1	2	1.7	2	0.35	2	4.2	2	-9	9	-9	9	203.10	2	286	2	1977.6	2	-9	9	2302	2	-9	-9	-9	-9	-9
123	2	25.2	34.925	2	34.932	2	27.618	27.612	22.465	-9	0.0	2	2.1	2	0.34	2	3.9	2	-9	9	-9	9	203.20	2	285	2	1977.8	2	-9	9	2302	2	-9	-9	-9	-9	-9
122	2	49.0	35.530	2	35.539	2	25.322	25.312	23.647	-9	0.1	2	4.5	2	0.58	2	5.0	2	-9	9	-9	9	210.91	2	324	2	2031.5	2	-9	9	-9	5	-9	-9	-9	-9	-9
121	2	101.0	35.401	2	35.423	2	18.201	18.184	25.533	-9	0.9	2	10.0	2	1.11	2	6.7	2	-9	9	-9	9	140.64	2	556	2	2134.1	2	-9	9	2331	2	-9	-9	-9	-9	-9
120	2	149.5	34.980	2	34.980	2	13.759	13.737	26.227	-9	0.0	2	27.7	2	2.31	2	21.0	2	-9	9	-9	9	7.86	2	1340	2	2236.5	2	-9	9	2296	2	-9	-9	-9	-9	-9
119	2	198.0	34.919	2	34.916	2	12.683	12.656	26.399	-9	0.0	2	29.7	2	2.30	2	25.5	2	-9	9	-9	9	16.67	2	1340	2	2236.7	2	-9	9	2295	2	-9	-9	-9	-9	-9
118	2	300.6	34.824	2	34.825	2	11.250	11.212	26.600	-9	0.0	2	32.8	2	2.40	2	30.4	2	-9	9	-9	9	15.14	2	1356	3	2250.4	2	-9	9	2299	2	-9	-9	-9	-9	-9
117	2	401.3	34.746	2	34.745	2	10.015	9.968	26.759	-9	0.0	2	35.8	2	2.66	2	36.3	2	-9	9	-9	9	5.13	2	1567	2	2272.1	2	-9	9	2297	2	-9	-9	-9	-9	-9
116	2	499.8	34.664	2	34.664	2	8.708	8.654	26.910	-9	0.0	2	39.0	2	2.82	2	39.7	2	-9	9	-9	9	9.12	2	1799	3	2279.0	2	-9	9	2301	2	-9	-9	-9	-9	-9
115	2	598.2	34.585	2	34.585	2	7.181	7.123	27.075	-9	0.0	2	43.5	2	2.99	2	47.1	2	-9	9	-9	9	16.42	2	1887	3	2290.0	2	-9	9	2306	2	-9	-9	-9	-9	-9
114	2	699.0	34.555	2	34.556	2	6.283	6.219	27.173	-9	0.0	2	44.7	2	3.02	2	54.8	2	-9	9	-9	9	29.13	2	1866	2	2293.4	2	-9	9	2316	2	-9	-9	-9	-9	-9
113	2	800.7	34.541	2	34.542	2	5.522	5.453	27.258	-9	0.0	2	43.9	2	3.00	2	63.3	2	-9	9	-9	9	47.91	2	1745	2	2294.7	2	-9	9	2326	2	-9	-9	-9	-9	-9
112	2	900.9	34.535	2	34.534	2	4.949	4.875	27.321	-9	0.0	2	42.4	2	2.91	2	70.0	2	-9	9	-9	9	68.17	2	1541	2	2292.2	2	-9	9	2333	2	-9	-9	-9	-9	-9
111	2	1000.6	34.540	2	34.541	2	4.478	4.398	27.378	-9	0.0	2	41.1	2	2.88	2	79.7	2	-9	9	-9	9	78.53	2	1502	2	2297.0	2	-9	9	2346	2	-9	-9	-9	-9	-9
110	2	1200.9	34.562	2	34.562	2	3.727	3.637	27.474	-9	0.0	2	40.0	2	2.85	2	96.8	2	-9	9	-9	9	92.22	2	1457	3	2306.5	2	-9	9	2368	2	-9	-9	-9	-9	-9
109	2	1401.0	34.587	2	-9	5	3.130	3.029	27.553	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	98.43	2	1414	2	2318.1	2	-9	9	2378	2	-9	-9	-9	-9	-9
108	2	1602.5	34.607	2	34.607	2	2.760	2.647	27.603	-9	0.0	2	39.3	2	2.77	2	121.3	2	-9	9	-9	9	105.99	2	1382	2	2325.0	2	-9	9	2390	2	-9	-9	-9	-9	-9
107	2	1901.2	34.633	2	34.629	3	2.372	2.238	27.658	-9	0.0	2	38.8	2	2.72	2	133.7	2	-9	9	-9	9	110.50	2	1347	2	2335.6	2	-9	9	2406	2	-9	-9	-9	-9	-9
106	2	2199.8	34.650	2	34.650	2	2.091	1.936	27.692	-9	0.0	2	38.2	2	2.66	2	138.5	2	-9	9	-9	9	119.62	2	1299	2	2337.7	2	-9	9	2410	2	-9	-9	-9	-9	-9
105	2	2501.6	34.663	2	34.663	2	1.915	1.736	27.722	-9	0.0	2	38.1	2	2.62	2	141.4	2	-9	9	-9	9	125.81	6	-9	9	2339.1	2	-9	9	2419	2	-9	-9	-9	-9	-9
104	2	2798.9	34.670	2	34.671	2	1.797	1.593	27.739	-9	0.0	2	37.9	2	2.60	2	142.5	2	-9	9	-9	9	132.61	2	1228	2	2335.8	2	-9	9	2420	2	-9	-9	-9	-9	-9
103	2	3100.5	34.674	2	34.675	2	1.750	1.518	27.747	-9	0.0	2	37.9	2	2.58	2	143.9	2	-9	9	-9	9	135.48	2	1203	2	2337.6	2	-9	9	2423	2	-9	-9	-9	-9	-9
102	2	3400.0	34.675	2	-9	5	1.761	1.498	27.750	-9	0.0	2	38.6	2	2.64	2	148.2	2	-9	9	-9	9	136.32	2	1194	2	2338.3	2	-9	9	2427	2	-9	-9	-9	-9	-9
101	2	3496.4	34.675	2	34.675	2	1.771	1.499	27.749	-9	0.0	2	37.4	2	2.58	2	148.2	2	-9	9	-9	9	136.47	2	1199	2	2338.0	2	-9	9	2425	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 125 DATE 4/8/94 LATITUDE 7°42.0'S Btm Depth: 3188
CAST 1 LONGITUDE 106°23.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	9.0	34.943	2	34.945	2	27.456	27.454	22.529	-9	0.1	2	2.0	2	0.40	2	3.3	2	1.753	2	0.938	2	202.44	2	-9	9	1979.7	2	8.0851	2	2305	2	-9	-9	-9	-9	-9
123	2	24.1	34.943	2	34.949	2	27.463	27.458	22.528	-9	0.1	2	2.8	2	0.40	2	3.1	2	1.743	2	0.948	2	202.52	2	-9	9	1979.7	2	8.0849	2	2311	2	-9	-9	-9	-9	-9
122	2	50.2	35.431	2	-9	5	25.914	25.903	23.389	-9	0.1	2	4.9	2	0.58	2	3.8	2	1.904	2	1.014	2	211.11	2	-9	9	2027.2	2	-9	9	2333	2	-9	-9	-9	-9	-9
121	2	102.3	35.299	2	35.293	2	17.410	17.392	25.649	-9	0.6	2	12.5	2	1.28	2	6.3	2	2.049	2	1.058	2	-9	1	-9	9	2146.0	2	7.7979	2	2322	2	-9	-9	-9	-9	-9
120	2	151.5	34.958	2	34.957	2	13.312	13.291	26.301	-9	0.0	2	28.7	2	2.31	2	21.8	2	0.530	2	0.276	2	9.00	2	-9	9	2237.5	2	7.5045	2	2305	2	-9	-9	-9	-9	-9
119	2	196.6	34.891	2	34.895	2	12.289	12.263	26.454	-9	0.0	2	30.4	2	2.35	2	25.3	2	0.292	2	0.162	2	15.33	2	-9	9	2239.1	2	7.4982	2	2307	2	-9	-9	-9	-9	-9
118	2	297.6	34.809	2	34.809	2	11.036	10.999	26.627	-9	0.0	2	33.9	2	2.50	2	31.4	2	0.104	2	0.055	2	7.19	2	-9	9	2260.8	2	7.4399	2	2303	2	-9	-9	-9	-9	-9
117	2	401.6	34.731	2	34.729	2	9.782	9.736	26.786	-9	0.0	2	36.4	2	2.70	2	36.7	2	0.024	2	0.013	2	5.01	2	-9	9	2273.5	2	7.4011	2	2303	2	-9	-9	-9	-9	-9
116	2	500.3	34.654	2	34.655	2	8.473	8.420	26.938	-9	0.0	2	40.5	2	2.86	2	41.1	2	0.005	2	0.002	2	7.67	2	-9	9	2282.1	2	-9	1	2307	2	-9	-9	-9	-9	-9
115	2	597.6	34.587	2	34.589	2	7.166	7.108	27.078	-9	0.0	2	43.9	2	2.97	2	47.7	2	-0.002	6	-0.002	6	17.77	2	-9	9	2288.9	2	7.3746	2	2308	2	-9	-9	-9	-9	-9
114	2	697.1	34.553	2	34.554	2	6.253	6.190	27.175	-9	0.0	2	44.9	2	3.03	2	56.1	2	0.000	2	-0.002	2	30.75	2	-9	9	2294.0	2	7.3834	2	2320	2	-9	-9	-9	-9	-9
113	2	801.2	34.541	2	34.540	2	5.476	5.408	27.263	-9	0.0	2	43.7	2	2.96	2	66.8	2	0.000	2	-0.002	2	53.52	2	-9	9	2293.0	2	7.4199	2	2334	2	-9	-9	-9	-9	-9
112	2	900.1	34.540	2	-9	5	4.886	4.812	27.332	-9	0.0	2	43.4	2	3.00	2	79.1	2	-0.001	2	-0.002	2	66.89	2	-9	9	2293.5	2	-9	9	2344	2	-9	-9	-9	-9	-9
111	2	1002.0	34.545	2	34.545	2	4.462	4.383	27.384	-9	0.0	2	43.1	2	2.89	2	84.3	2	-0.001	2	-0.002	2	74.87	2	-9	9	2300.0	2	7.4524	2	-9	5	-9	-9	-9	-9	-9
110	2	1102.6	34.553	2	34.553	2	4.078	3.993	27.432	-9	0.0	2	41.7	2	2.88	2	90.4	2	-9	9	-9	9	83.25	2	-9	9	-9	9	7.4675	2	-9	9	-9	-9	-9	-9	-9
109	2	1200.4	34.565	2	34.565	2	3.768	3.677	27.473	-9	0.0	2	42.1	2	2.88	2	98.4	2	-9	9	-9	9	85.19	2	-9	9	-9	9	7.4704	2	-9	9	-9	-9	-9	-9	-9
108	3	1403.2	34.587	2	-9	9	3.220	3.118	27.544	-9	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	1602.3	34.606	2	34.737	4	2.820	2.706	27.597	-9	0.0	2	33.5	4	2.38	4	68.2	4	0.425	4	0.238	4	86.69	3	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	1801.8	34.624	2	34.625	2	2.506	2.379	27.640	-9	0.0	2	39.9	2	2.76	2	132.0	2	-9	9	-9	9	106.54	2	-9	9	-9	9	7.5078	2	-9	9	-9	-9	-9	-9	-9
105	2	2000.3	34.639	2	34.640	2	2.268	2.127	27.672	-9	0.0	2	39.5	2	2.71	2	139.9	2	0.004	2	0.001	2	112.72	2	-9	9	-9	9	7.5203	2	-9	9	-9	-9	-9	-9	-9
104	2	2307.7	34.654	2	34.655	2	2.043	1.880	27.704	-9	0.0	2	39.0	2	2.66	2	146.6	2	-9	9	-9	9	117.34	2	-9	9	-9	9	7.5329	2	-9	9	-9	-9	-9	-9	-9
103	2	2608.2	34.666	2	34.667	2	1.857	1.669	27.730	-9	0.0	2	39.1	2	2.60	2	146.8	2	-0.001	2	-0.002	2	127.59	2	-9	9	-9	9	7.5513	2	-9	9	-9	-9	-9	-9	-9
102	2	2896.0	34.671	2	34.673	2	1.786	1.573	27.741	-9	0.0	2	38.5	2	2.56	2	145.4	2	-9	9	-9	9	133.31	2	-9	9	-9	9	7.5631	2	-9	9	-9	-9	-9	-9	-9
101	2	3141.9	34.674	2	34.676	2	1.764	1.527	27.747	-9	0.0	6	38.6	6	2.57	6	147.1	6	-9	1	-9	1	135.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 126 DATE 4/8/94 LATITUDE 7°18.7S Btm Depth: 3175
CAST 2 LONGITUDE 106°56.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
236	2	7.4	34.841	2	36.818	4	27.658	27.656	22.387	0.126	0.0	2	2.2	2	0.36	2	1.7	2	1.737	2	0.975	2	202.25	2	290	2	1970.6	3	8.0834	2	2296	2	1.60	77.2	5.7	0.239	0.098
235	2	22.6	34.844	2	36.822	4	27.665	27.660	22.388	0.133	0.1	2	2.3	2	0.36	2	1.7	2	1.732	2	0.948	2	202.15	2	-9	9	-9	9	8.0842	2	-9	9	-9	-9	4.5	0.241	0.099
234	2	50.4	35.474	2	35.449	3	25.625	25.613	23.511	0.091	0.1	2	4.1	2	0.57	2	3.1	2	1.903	2	1.015	2	206.75	2	324	2	2025.4	2	8.0501	2	2324	3	1.50	65.6	4.4	0.264	0.199
233	2	74.1	35.422	2	35.405	2	21.002	20.988	24.818	0.064	1.1	2	7.8	2	1.06	2	5.5	2	1.994	2	1.022	2	156.89	2	-9	9	-9	9	7.9089	2	-9	9	1.10	59.5	5.7	0.205	0.206
232	2	98.5	35.331	2	35.334	2	17.928	17.911	25.547	0.044	1.5	2	13.6	2	1.41	2	7.4	2	1.952	6	1.006	6	105.07	2	679	2	2157.7	2	7.7749	2	2340	3	0.80	58.5	5.8	0.124	0.138
231	2	124.3	35.041	2	35.051	2	14.555	14.536	26.105	0.029	0.0	2	25.6	2	2.19	2	16.1	2	1.071	2	0.553	2	17.69	2	-9	9	-9	9	7.5489	2	-9	9	0.20	51.8	3.9	0.037	0.057
230	2	150.1	34.981	2	34.980	2	13.642	13.621	26.251	0.026	0.0	2	27.3	2	2.31	2	19.5	2	0.713	2	0.362	2	9.86	2	-9	9	2236.2	2	7.5133	2	2300	2	0.10	49.9	-9	0.019	0.028
229	2	174.7	34.932	2	34.936	2	12.906	12.882	26.364	0.027	0.0	2	28.8	2	2.35	2	21.8	2	0.483	2	0.261	2	9.45	2	-9	9	-9	9	-9	1	-9	9	0.10	-9	-9	0.009	0.015
228	2	202.6	34.899	2	34.900	2	12.356	12.329	26.447	0.029	0.0	2	30.4	2	2.31	2	24.8	2	0.318	2	0.177	2	18.90	2	1334	2	2237.7	2	7.5080	2	2294	2	0.10	50.6	2.4	0.005	0.016
227	2	214.1	34.889	2	34.889	2	12.185	12.157	26.473	0.028	0.0	2	30.5	2	2.28	2	25.1	2	0.301	2	0.169	2	23.16	2	-9	9	-9	9	7.5129	2	-9	9	0.10	-9	-9	-9	-9
226	2	249.8	34.862	2	34.862	2	11.769	11.737	26.532	0.030	0.0	2	30.5	2	2.25	2	25.5	2	0.267	6	0.146	6	32.83	3	-9	9	2232.4	2	7.5250	2	2295	2	0.30	48.5	-9	-9	-9
225	2	300.4	34.819	2	34.820	2	11.169	11.132	26.610	0.031	0.0	2	32.7	2	2.44	2	30.7	2	0.152	2	0.078	2	15.04	2	1491	2	2251.9	2	7.4658	2	2299	2	0.10	48.0	2.0	-9	-9
224	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
223	2	351.0	34.779	2	34.778	2	10.560	10.518	26.690	0.031	0.0	2	34.4	2	2.61	2	34.8	2	0.059	6	0.032	6	4.22	6	-9	9	-9	9	7.4218	2	-9	9	0.00	-9	-9	-9	-9
222	2	402.8	34.723	2	34.722	2	9.694	9.648	26.796	0.030	0.0	2	36.4	2	2.70	2	37.5	2	0.022	2	0.015	2	5.80	2	1744	2	2273.3	2	-9	1	2301	2	-0.10	-9	-9	-9	-9
221	2	500.4	34.630	2	34.628	2	8.076	8.024	26.980	0.026	0.0	2	41.6	2	2.90	2	43.7	2	0.006	2	0.001	2	11.48	2	1862	3	2284.9	2	7.3785	2	2300	2	0.00	45.9	-9	-9	-9
220	2	599.6	34.571	2	34.570	2	6.784	6.728	27.118	0.023	0.0	2	44.2	2	3.03	2	52.8	2	0.004	2	-0.002	2	19.73	2	1907	2	2292.9	2	7.3717	2	2311	2	0.30	45.9	-9	-9	-9
219	2	698.4	34.543	2	34.542	2	5.799	5.738	27.225	0.021	0.0	2	42.0	2	2.87	2	60.5	2	-0.002	2	-0.001	2	51.55	2	1689	2	2287.1	2	7.4217	2	2319	2	0.20	38.4	-9	-9	-9
218	3	803.5	34.538	2	-9	9	5.252	5.184	27.287	0.019	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	5	-9	-9	-9	-9	-9
217	2	899.5	34.539	2	34.538	2	4.905	4.831	27.329	0.018	0.0	2	40.9	2	2.80	2	74.0	2	-0.001	2	0.000	2	72.83	2	1573	6	2290.7	2	7.4549	2	2335	2	-9	-9	-9	-9	-9
216	2	1000.7	34.543	2	34.543	2	4.462	4.383	27.382	0.016	0.0	2	40.1	2	2.77	2	81.2	2	-0.002	2	-0.001	2	82.86	2	1513	2	2294.3	2	7.4709	2	2357	3	0.20	38.4	-9	-9	-9
215	2	1098.2	34.551	2	34.550	2	4.170	4.084	27.420	0.017	0.0	2	40.2	2	2.79	2	87.2	2	-9	9	-9	9	85.51	2	-9	9	-9	9	7.4744	2	-9	9	0.20	-9	-9	-9	-9
214	2	1197.2	34.564	2	34.563	2	3.792	3.702	27.469	0.017	0.0	2	40.7	2	2.83	2	96.6	2	-0.002	2	-0.001	2	84.68	2	-9	9	-9	9	7.4684	2	-9	9	0.10	-9	-9	-9	-9
213	2	1301.9	34.573	2	34.573	2	3.518	3.421	27.505	0.013	0.0	2	40.0	2	2.80	2	103.5	2	-9	9	-9	9	89.31	2	-9	9	-9	9	7.4785	2	-9	9	0.10	-9	-9	-9	-9
212	2	1401.7	34.584	2	34.585	2	3.233	3.130	27.541	0.015	0.0	2	39.5	2	2.76	2	111.0	2	-9	9	-9	9	95.18	2	-9	9	-9	9	7.4880	2	-9	9	0.10	-9	-9	-9	-9
211	2	1500.2	34.598	2	34.598	2	2.970	2.863	27.576	0.014	0.0	2	39.1	2	2.74	2	117.5	2	-9	9	-9	9	99.03	2	-9	9	-9	9	7.4949	2	-9	9	0.00	-9	-9	-9	-9
210	2	1587.6	34.608	2	34.608	2	2.788	2.676	27.601	0.012	0.0	2	39.1	2	2.72	2	121.8	2	0.004	2	0.000	2	102.76	6	-9	9	-9	9	7.5020	2	-9	9	0.00	-9	-9	-9	-9
209	2	1800.4	34.626	2	34.626	2	2.465	2.338	27.645	0.011	0.0	2	38.6	2	2.69	2	130.5	2	-9	9	-9	9	108.75	2	-9	9	-9	9	7.5140	2	-9	9	0.00	-9	-9	-9	-9
208	2	2005.8	34.639	2	34.639	2	2.260	2.119	27.673	0.010	0.0	2	38.0	2	2.66	2	137.7	2	-9	9	-9	9	113.04	6	-9	9	-9	9	7.5228	2	-9	9	0.00	37.3	-9	-9	-9
207	3	2200.1	34.650	2	-9	5	2.110	1.955	27.695	0.010	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
206	2	2399.5	34.661	2	34.661	2	1.935	1.765	27.718	0.010	0.0	2	37.3	2	2.59	2	145.4	2	0.001	2	0.003	2	-9	1	-9	9	-9	9	7.5433	2	-9	9	0.00	-9	-9	-9	-9
205	3	2606.3	34.666	2	-9	5	1.863	1.675	27.729	0.009	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	124.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
204	2	2800.5	34.672	2	34.672	2	1.798	1.593	27.740	0.010	0.0	2	36.5	2	2.50	2	143.8	2	-9	9	-9	9	135.52	2	-9	9	-9	9	7.5684	2	-9	9	0.00	-9	-9	-9	-9
203	2	2999.9	34.674	2	34.676	2	1.761	1.538	27.746	0.007	0.0	2	37.1	2	2.50	2	147.0	2	-0.001	2	-0.002	2	134.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
202	2	2999.7	34.674	2	34.674	2	1.760	1.538	27.746	0.007	0.0	2	37.3	2	2.52	2	145.1	2	-9	9	-9	9	135.45	2	-9	9	-9	9	7.5708	2	-9	9	0.00	44.2	-9	-9	-9
201	2	3189.9	34.674	2	34.674	2	1.772	1.531	27.747	0.007	0.0	6	37.0	6	2.52	6	146.3	6	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	0.10	37.1	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 127 DATE 4/9/94 LATITUDE 6°56.4'S Btm Depth: 3180
CAST 1 LONGITUDE 107°30.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	11.0	34.878	2	34.880	2	27.643	27.640	22.420	0.249	0.1	2	1.9	2	0.35	2	1.2	2	1.748	2	0.976	2	205.03	2	289	2	1969.1	2	8.0974	2	2301	6	-9	-9	-9	-9	-9
135	2	10.0	34.878	2	34.880	2	27.641	27.639	22.420	0.243	0.1	2	1.9	2	0.34	2	0.4	2	4.799	4	0.938	2	204.67	2	289	2	1969.8	2	8.0984	2	2299	6	-9	-9	-9	-9	-9
134	2	10.7	34.877	2	34.880	2	27.641	27.639	22.420	0.249	0.1	2	1.8	2	0.30	2	0.4	2	1.732	2	0.963	2	204.99	2	283	2	1969.8	2	8.0978	2	2305	2	-9	-9	-9	-9	-9
133	2	24.6	34.921	2	34.923	2	27.593	27.588	22.469	0.232	0.1	2	2.0	2	0.30	2	0.2	2	1.740	6	0.960	6	204.53	2	283	2	1974.5	2	8.0941	2	2303	2	-9	-9	-9	-9	-9
132	2	48.5	35.438	2	35.442	2	25.073	25.062	23.653	0.130	0.1	2	4.9	2	0.66	2	2.6	2	1.946	2	1.075	2	210.11	2	336	2	2036.4	2	8.0329	2	2332	2	-9	-9	-9	-9	-9
131	2	75.1	35.264	2	35.288	2	21.199	21.185	24.644	0.060	1.0	2	9.3	2	1.08	2	5.1	2	1.951	2	1.022	2	158.81	2	490	2	2101.6	2	7.8952	2	2329	2	-9	-9	-9	-9	-9
130	2	101.5	35.258	2	35.279	2	17.236	17.220	25.660	0.044	1.0	2	14.5	2	1.44	2	6.3	2	1.965	2	1.042	2	104.10	2	695	2	2160.7	2	7.7651	2	2318	2	-9	-9	-9	-9	-9
129	2	123.1	35.019	2	35.019	2	14.225	14.207	26.158	0.032	0.0	2	26.9	2	2.23	2	16.7	2	0.894	2	0.468	2	13.61	2	1249	2	2230.8	2	7.5339	2	2298	2	-9	-9	-9	-9	-9
128	2	150.6	34.937	2	34.937	2	12.993	12.973	26.350	0.027	0.0	2	30.7	2	2.38	2	23.3	2	0.416	2	0.219	2	7.06	6	1387	2	2242.3	2	7.4937	2	2304	2	-9	-9	-9	-9	-9
127	2	167.4	34.917	2	34.915	2	12.678	12.655	26.397	0.028	0.0	2	30.6	2	2.38	2	24.7	2	0.364	2	0.237	2	9.75	2	1398	6	2242.5	2	7.4913	2	2296	2	-9	-9	-9	-9	-9
126	2	200.3	34.893	2	34.891	2	12.326	12.299	26.449	0.029	0.0	2	30.6	2	2.36	2	26.0	2	0.285	2	0.166	2	13.81	2	1409	2	2241.4	2	7.4945	2	2299	2	-9	-9	-9	-9	-9
125	2	218.5	34.877	2	34.875	2	12.094	12.065	26.481	0.030	0.0	2	31.9	2	2.38	2	26.7	2	0.242	2	0.131	2	13.72	2	1418	2	2242.6	2	7.4879	2	2304	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	297.8	34.820	2	34.818	2	11.192	11.155	26.607	0.031	0.0	2	33.3	2	2.46	2	29.7	2	0.141	6	0.078	6	13.57	2	1508	2	2253.0	2	7.4642	2	2308	2	-9	-9	-9	-9	-9
122	2	350.0	34.781	2	34.779	2	10.597	10.554	26.684	0.027	0.0	2	35.0	2	2.64	2	33.4	2	0.063	2	0.034	2	4.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
121	2	404.2	34.719	2	34.717	2	9.617	9.571	26.805	0.028	0.0	2	36.6	2	2.80	2	38.9	2	0.028	2	0.008	2	2.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	497.5	34.628	2	34.626	2	8.038	7.987	26.983	0.026	0.0	2	42.2	2	2.99	2	44.8	2	0.003	2	0.000	2	6.92	2	1918	6	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
119	2	600.0	34.573	2	34.572	2	6.833	6.776	27.113	0.021	0.0	2	44.0	2	3.01	2	51.5	2	0.001	2	0.002	2	24.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
118	2	700.0	34.545	2	34.545	2	5.935	5.873	27.209	0.018	0.0	2	43.7	2	2.96	2	59.3	2	-0.001	2	-0.002	2	47.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	803.4	34.538	2	34.538	2	5.348	5.280	27.277	0.019	0.0	2	41.9	2	2.94	2	67.1	2	-9	1	-9	1	63.34	2	1626	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	899.7	34.539	2	34.539	2	4.856	4.782	27.335	0.017	0.0	2	42.1	2	2.97	2	74.0	2	-9	9	-9	9	68.31	2	-9	9	2294.8	2	-9	9	2348	6	-9	-9	-9	-9	-9
115	2	1001.8	34.546	2	34.546	2	4.289	4.211	27.403	0.015	0.0	2	40.8	2	2.81	2	82.9	2	-9	9	-9	9	86.39	6	1499	2	-9	9	7.4764	2	-9	9	-9	-9	-9	-9	-9
114	2	1103.1	34.554	2	34.553	2	3.982	3.897	27.442	0.012	0.0	2	40.1	2	2.81	2	89.1	2	-9	9	-9	9	90.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1202.4	34.567	2	34.566	2	3.667	3.577	27.484	0.012	0.0	2	41.1	2	2.82	2	97.1	2	-9	9	-9	9	91.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1295.2	34.578	2	34.579	2	3.378	3.283	27.522	0.013	0.0	2	40.3	2	2.79	2	105.2	2	-9	9	-9	9	94.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1397.1	34.590	2	34.591	2	3.119	3.018	27.556	0.011	0.0	2	40.6	2	2.79	2	111.4	2	-9	9	-9	9	99.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1603.6	34.610	2	34.610	2	2.741	2.627	27.607	0.010	0.0	2	40.4	2	2.74	2	121.3	2	-9	9	-9	9	107.94	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1797.3	34.624	2	34.624	2	2.505	2.378	27.640	0.009	0.0	2	39.9	2	2.73	2	128.6	2	-9	9	-9	9	108.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1996.2	34.640	2	34.640	2	2.281	2.141	27.672	0.009	0.0	2	39.2	2	2.70	2	136.6	2	-9	9	-9	9	108.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2182.6	34.649	2	34.648	2	2.132	1.978	27.692	0.008	0.0	2	39.0	2	2.68	2	139.4	2	-9	9	-9	9	114.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2399.2	34.658	2	34.659	2	1.977	1.806	27.713	0.008	0.0	2	38.7	2	2.62	2	141.6	2	-9	9	-9	9	120.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2502.6	34.664	2	34.664	2	1.888	1.710	27.725	0.006	0.0	2	38.3	2	2.59	2	141.2	2	-9	9	-9	9	126.80	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2795.2	34.674	2	34.675	2	1.779	1.576	27.743	0.005	0.0	2	37.4	2	2.54	2	142.1	2	-9	9	-9	9	134.62	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3000.4	34.674	2	34.676	2	1.783	1.560	27.744	0.005	0.0	2	37.9	2	2.55	2	144.1	2	-9	9	-9	9	135.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2999.5	34.674	2	34.674	2	1.783	1.560	27.744	0.005	0.0	2	37.6	2	2.54	2	144.0	2	-9	9	-9	9	134.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3143.9	34.674	2	34.675	2	1.796	1.558	27.744	0.005	0.0	6	37.6	6	2.54	6	144.7	6	-9	9	-9	9	135.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 128 DATE 4/9/94 LATITUDE 6°33.7S Btm Depth: 3125
CAST 1 LONGITUDE 108°4.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	34.702	2	34.703	2	27.816	27.814	22.231	0.084	0.1	2	2.5	2	0.41	2	2.4	2	1.733	2	0.955	2	200.88	2	299	2	1975.8	2	8.0733	2	2289	6	1.60	76.9	6.0	-9	-9
135	2	8.6	34.702	2	34.706	2	27.820	27.818	22.230	0.085	0.1	2	3.0	2	0.41	2	2.1	2	1.737	2	0.930	2	200.75	2	-9	9	-9	9	8.0735	2	-9	9	-9	72.9	6.0	-9	-9
134	2	22.8	34.728	2	34.732	2	27.819	27.814	22.251	0.094	0.0	2	3.0	2	0.43	2	2.2	2	1.730	2	0.953	2	-9	1	297	2	-9	9	8.0707	2	-9	9	-9	82.4	6.1	-9	-9
133	2	47.9	34.992	2	35.004	2	27.116	27.105	22.678	0.109	0.1	2	3.7	2	0.52	2	2.2	2	1.793	2	0.970	2	201.90	2	-9	9	1975.1	2	8.0562	2	2284	2	-9	73.9	6.1	-9	-9
132	2	76.3	35.317	2	35.335	2	21.280	21.265	24.663	0.076	1.1	2	8.3	2	1.05	2	4.7	2	1.994	2	1.054	2	157.90	2	483	2	-9	9	7.9026	2	-9	9	-9	-9	7.2	-9	-9
131	2	99.9	35.307	2	35.302	2	17.876	17.859	25.542	0.048	1.3	2	16.8	2	1.57	2	7.3	2	1.826	2	0.951	2	81.47	2	760	2	2100.1	3	7.7293	2	2324	2	-9	58.5	4.3	-9	-9
130	2	124.8	35.036	2	35.036	2	14.597	14.578	26.092	0.038	0.0	2	26.1	2	2.19	2	15.0	2	1.016	2	0.516	2	14.64	2	1236	2	2174.7	3	7.5407	2	2318	2	-9	-9	-9	-9	-9
129	2	148.0	34.940	2	34.938	2	13.138	13.117	26.323	0.031	0.0	2	28.3	2	2.30	2	19.6	2	0.518	2	0.277	2	10.15	2	1352	2	2228.8	2	7.5032	2	2297	2	-9	-9	-9	-9	-9
128	3	173.7	34.912	2	34.911	2	12.588	12.565	26.411	0.037	0.0	2	30.5	2	2.29	2	23.0	2	0.330	2	0.193	2	12.90	2	1369	2	2239.2	2	-9	9	2294	2	-9	-9	-9	-9	-9
127	2	201.8	34.884	2	34.882	2	12.175	12.149	26.470	0.028	0.0	2	31.6	2	2.29	2	24.1	2	0.275	2	0.158	2	17.70	2	-9	9	2240.4	2	7.5002	2	2300	2	-9	-9	-9	-9	-9
126	2	224.3	34.868	2	34.867	2	11.927	11.898	26.506	0.029	0.0	2	31.6	2	2.26	2	24.5	2	0.265	2	0.142	2	26.20	2	1330	2	-9	9	7.5148	2	-9	9	-9	-9	-9	-9	-9
125	2	252.2	34.848	2	34.848	2	11.617	11.585	26.550	0.026	0.0	2	31.3	2	2.29	2	26.1	2	0.217	2	0.124	2	23.20	2	1385	2	2235.7	2	7.4972	2	2298	2	-9	52.5	4.4	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	299.5	34.812	2	34.813	2	11.084	11.047	26.621	0.029	0.0	2	33.8	2	2.46	2	29.1	2	0.116	2	0.073	2	7.89	2	-9	9	2242.5	2	7.4449	2	2300	2	-9	-9	-9	-9	-9
122	2	401.1	34.713	2	34.712	2	9.549	9.503	26.812	0.028	0.0	2	36.7	2	2.73	2	34.9	2	0.018	6	0.017	6	4.88	2	1788	2	2277.0	2	7.3956	2	2302	2	-9	-9	-9	-9	-9
121	2	499.6	34.619	2	34.618	2	7.876	7.825	27.001	0.024	0.0	2	42.3	2	2.91	2	41.5	2	0.005	2	0.003	2	11.14	2	1886	2	2288.2	2	7.3740	2	2302	2	-9	-9	-9	-9	-9
120	2	599.8	34.565	2	34.564	2	6.600	6.545	27.138	0.023	0.0	2	43.6	2	2.93	2	49.4	2	0.000	2	0.012	2	33.77	2	1776	2	2287.4	2	7.3994	2	2313	2	-9	-9	4.5	-9	-9
119	2	701.6	34.546	2	34.547	2	5.758	5.697	27.232	0.020	0.0	2	42.5	2	2.87	2	59.6	2	-9	1	-9	1	54.79	2	1649	3	2286.7	2	7.4306	2	2321	2	-9	-9	-9	-9	-9
118	3	799.0	34.537	2	34.537	2	5.108	5.042	27.303	0.018	0.0	2	40.9	2	2.80	2	67.6	2	0.006	2	-0.002	2	76.93	2	1522	2	2285.7	2	-9	9	2331	2	-9	-9	-9	-9	-9
117	2	903.2	34.541	2	34.540	2	4.611	4.539	27.364	0.017	0.0	2	40.3	2	2.79	2	76.5	2	-9	9	-9	9	84.22	2	1492	2	2291.1	2	7.4758	2	2340	2	-9	-9	-9	-9	-9
116	2	1001.9	34.551	2	34.552	2	4.234	4.157	27.413	0.017	0.0	2	40.5	2	2.76	2	84.8	2	-9	9	-9	9	91.42	2	1443	2	2296.0	2	7.4889	2	2354	2	-9	44.0	-9	-9	-9
115	2	1102.3	34.562	2	34.562	2	3.911	3.827	27.456	0.017	0.0	2	40.1	2	2.81	2	92.4	2	-9	9	-9	9	89.43	6	-9	9	-9	9	7.4834	2	-9	9	-9	-9	-9	-9	-9
114	2	1201.8	34.573	2	34.574	2	3.625	3.536	27.493	0.016	0.0	2	40.2	2	2.77	2	100.5	2	-9	9	-9	9	89.93	2	-9	9	-9	9	7.4817	2	-9	9	-9	-9	-9	-9	-9
113	2	1272.2	34.579	2	34.580	2	3.463	3.370	27.515	0.015	0.0	2	40.3	2	2.78	2	103.7	2	-9	9	-9	9	90.13	2	-9	9	-9	9	7.4799	2	-9	9	-9	-9	-9	-9	-9
112	2	1402.5	34.590	2	34.591	2	3.208	3.106	27.548	0.012	0.0	2	39.9	2	2.76	2	108.7	2	-9	9	-9	9	92.71	2	-9	9	-9	9	7.4857	2	-9	9	-9	-9	-9	-9	-9
111	2	1597.5	34.611	2	34.612	2	2.801	2.687	27.603	0.012	0.0	2	41.0	2	2.76	2	119.9	2	-9	9	-9	9	95.18	6	-9	9	-9	9	7.4898	2	-9	9	-9	-9	-9	-9	-9
110	2	1801.4	34.625	2	34.626	2	2.544	2.416	27.638	0.011	0.0	2	39.6	2	2.73	2	126.0	2	-9	9	-9	9	100.20	2	-9	9	-9	9	7.4994	2	-9	9	-9	-9	-9	-9	-9
109	2	2002.5	34.640	2	34.641	2	2.304	2.162	27.670	0.010	0.0	2	39.7	2	2.71	2	132.2	2	-9	9	-9	9	105.77	2	-9	9	-9	9	7.5105	2	-9	9	-9	-9	-9	-9	-9
108	2	2200.3	34.651	2	34.651	2	2.114	1.958	27.695	0.008	0.0	2	38.5	2	2.64	2	138.2	2	-9	9	-9	9	111.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2398.7	34.659	2	34.660	2	1.965	1.794	27.715	0.008	0.0	2	37.6	2	2.58	2	140.7	2	-9	9	-9	9	122.63	2	-9	9	-9	9	7.5410	2	-9	9	-9	-9	-9	-9	-9
106	2	2600.1	34.668	2	34.668	2	1.836	1.649	27.733	0.006	0.0	2	37.4	2	2.52	2	141.2	2	-9	9	-9	9	128.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2802.7	34.674	2	34.674	2	1.782	1.577	27.742	0.006	0.0	2	36.6	2	2.49	2	142.4	2	-9	9	-9	9	135.76	6	-9	9	-9	9	7.5703	2	-9	9	-9	-9	-9	-9	-9
104	2	2995.2	34.676	2	34.676	2	1.742	1.520	27.748	0.007	0.0	2	37.0	2	2.50	2	142.7	2	-9	9	-9	9	137.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3203.7	34.676	2	34.678	2	1.741	1.498	27.751	0.006	0.0	2	36.8	2	2.50	2	143.0	2	-9	9	-9	9	138.47	2	-9	9	-9	9	7.5760	2	-9	9	-9	-9	-9	-9	-9
102	2	3204.3	34.676	2	34.677	2	1.740	1.498	27.751	0.006	0.0	2	36.3	2	2.49	2	145.0	2	-9	9	-9	9	138.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3275.0	34.676	2	34.677	2	1.747	1.498	27.751	0.006	0.0	6	36.7	6	2.50	6	143.3	6	-9	9	-9	9	139.06	2	-9	9	-9	9	7.5738	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 129 DATE 4/9/94 LATITUDE 6°9.3'S Btm Depth: 3293
CAST 1 LONGITUDE 108°38.5'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.5	34.680	2	34.683	2	27.754	27.752	22.235	0.092	0.1	2	3.2	2	0.43	2	2.5	2	1.736	6	0.983	6	202.49	2	301	2	1976.3	2	8.0703	2	2284	2	-9	-9	-9	-9	-9
135	2	24.8	34.743	2	34.794	3	27.685	27.680	22.306	0.099	0.0	2	3.3	2	0.46	2	2.1	2	1.977	2	1.060	2	203.77	2	304	2	1982.5	2	8.0689	2	2290	2	-9	-9	-9	-9	-9
134	2	51.5	35.309	2	35.308	2	24.267	24.256	23.799	0.107	0.1	2	7.1	2	0.79	2	3.2	2	2.009	2	1.067	2	207.14	2	374	2	2051.8	2	7.9922	2	2320	2	-9	-9	-9	-9	-9
133	2	75.6	35.451	2	35.419	3	21.034	21.019	24.832	0.061	1.6	2	7.9	2	1.11	2	4.5	2	2.038	2	1.080	2	148.96	2	498	2	2112.4	2	7.8891	2	2331	2	-9	-9	-9	-9	-9
132	2	101.4	35.231	2	35.232	2	16.809	16.792	25.741	0.044	0.3	2	17.0	2	1.55	2	7.0	2	1.842	6	0.952	6	90.52	2	752	2	2170.6	2	7.7334	2	2315	2	-9	-9	-9	-9	-9
131	2	125.1	35.003	2	35.006	2	14.167	14.149	26.158	0.030	0.0	2	28.1	2	2.28	2	16.5	2	0.869	2	0.446	2	10.86	2	1288	2	2233.0	2	7.5240	2	-9	5	-9	-9	-9	-9	-9
130	2	149.1	34.934	2	34.935	2	12.923	12.902	26.362	0.026	0.0	2	29.8	2	2.34	2	21.1	2	0.449	2	0.232	2	10.93	2	1364	2	2238.6	2	7.5024	2	2305	2	-9	-9	-9	-9	-9
129	2	176.1	34.895	2	34.893	2	12.296	12.273	26.455	0.018	0.0	2	31.0	2	2.30	2	22.8	2	0.311	2	0.173	2	19.90	2	1342	2	2236.1	2	7.5095	2	2304	2	-9	-9	-9	-9	-9
128	2	200.0	34.873	2	34.871	2	11.965	11.939	26.502	0.028	0.0	2	32.1	2	2.30	2	23.9	2	0.266	2	0.145	2	24.27	2	1337	2	2235.9	2	7.5107	2	2296	2	-9	-9	-9	-9	-9
127	2	223.6	34.848	2	34.847	2	11.600	11.571	26.552	0.030	0.0	2	32.2	2	2.34	2	25.5	2	0.208	2	0.113	2	22.66	2	1383	2	2240.3	2	7.4970	2	2295	2	-9	-9	-9	-9	-9
126	2	249.0	34.821	2	34.821	2	11.200	11.169	26.605	0.030	0.0	2	33.4	2	2.47	2	28.3	2	0.133	6	0.081	6	9.89	2	1544	2	2253.7	2	7.4559	2	2297	2	-9	-9	-9	-9	-9
125	2	301.2	34.781	2	34.780	2	10.576	10.540	26.687	0.028	0.0	2	35.1	2	2.57	2	31.2	2	0.064	2	0.036	2	6.92	2	1640	2	2263.3	2	7.4306	2	2293	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	349.1	34.739	2	34.738	2	9.928	9.888	26.768	0.030	0.0	2	36.5	2	2.66	2	33.2	2	0.026	2	0.018	2	7.07	2	1703	2	2268.9	2	7.4142	2	2299	2	-9	-9	-9	-9	-9
122	2	400.9	34.695	2	34.694	2	9.193	9.149	26.855	0.028	0.0	2	38.5	2	2.75	2	35.5	2	0.017	2	0.008	2	8.78	2	1760	2	2274.7	2	7.3994	2	2303	2	-9	-9	-9	-9	-9
121	2	501.6	34.628	2	34.628	2	7.929	7.877	27.000	0.025	0.0	2	42.6	2	2.97	2	43.1	2	0.013	2	-0.002	2	8.57	2	1894	2	2287.2	2	7.3713	2	2302	2	-9	-9	-9	-9	-9
120	2	600.8	34.572	2	34.572	2	6.719	6.663	27.128	0.022	0.0	2	43.3	2	2.91	2	48.9	2	0.017	2	-0.002	2	35.31	6	1751	2	2282.1	2	7.4060	2	2316	2	-9	-9	-9	-9	-9
119	2	701.0	34.552	2	34.552	2	5.948	5.886	27.213	0.022	0.0	2	42.9	2	2.93	2	58.6	2	-0.002	2	-0.001	2	49.16	2	1702	2	2286.8	2	7.4210	2	2317	2	-9	-9	-9	-9	-9
118	2	800.9	34.543	2	34.542	2	5.375	5.307	27.277	0.021	0.0	2	42.5	2	2.91	2	65.5	2	-0.002	2	0.000	2	62.41	2	1629	2	2289.0	2	7.4408	2	2335	2	-9	-9	-9	-9	-9
117	2	901.5	34.542	2	34.541	2	4.869	4.795	27.336	0.019	0.0	2	41.9	2	2.88	2	72.8	2	-9	9	-9	9	77.52	6	1533	2	2292.7	2	7.4657	2	2349	6	-9	-9	-9	-9	-9
116	2	1004.4	34.548	2	34.546	2	4.370	4.291	27.396	0.017	0.0	2	40.5	2	2.82	2	81.2	2	-9	9	-9	9	89.11	2	1468	2	2294.8	2	7.4850	2	2344	2	-9	-9	-9	-9	-9
115	2	1101.1	34.559	2	34.559	2	4.019	3.934	27.442	0.013	0.0	2	39.9	2	2.82	2	91.4	2	-9	9	-9	9	90.70	2	1466	2	2302.9	2	7.4855	2	2356	2	-9	-9	-9	-9	-9
114	2	1199.8	34.568	2	34.569	2	3.763	3.672	27.476	0.017	0.0	2	41.0	2	2.85	2	99.0	2	-9	9	-9	9	89.99	2	1483	2	2311.0	2	7.4825	2	2364	2	-9	-9	-9	-9	-9
113	2	1301.5	34.576	2	34.576	2	3.568	3.470	27.502	0.015	0.0	2	41.0	2	2.85	2	104.0	2	-9	9	-9	9	90.06	2	1489	2	2316.4	2	7.4827	2	2366	2	-9	-9	-9	-9	-9
112	2	1400.9	34.588	2	34.588	2	3.291	3.188	27.539	0.015	0.0	2	41.1	2	2.87	2	110.6	2	-9	9	-9	9	90.18	2	1497	2	2324.1	2	7.4816	2	2378	2	-9	-9	-9	-9	-9
111	2	1601.5	34.610	2	34.610	2	2.815	2.701	27.601	0.011	0.0	2	41.0	2	2.84	2	121.8	2	-9	9	-9	9	97.33	2	1458	2	2333.8	2	7.4941	2	2387	2	-9	-9	-9	-9	-9
110	2	1797.5	34.626	2	34.625	2	2.552	2.425	27.637	0.012	0.0	2	40.8	2	2.84	2	130.4	2	-9	9	-9	9	99.13	2	1450	2	2341.1	2	7.4983	2	2396	2	-9	-9	-9	-9	-9
109	2	2000.2	34.642	2	34.641	2	2.271	2.130	27.674	0.012	0.0	2	40.1	2	2.78	2	139.7	2	-9	9	-9	9	105.27	6	1407	2	2344.9	2	7.5101	2	2410	2	-9	-9	-9	-9	-9
108	2	2177.9	34.652	2	34.652	2	2.097	1.944	27.697	0.010	0.0	2	39.9	2	2.73	2	143.1	2	-9	9	-9	9	113.10	2	1359	2	2344.8	2	7.5260	2	2412	2	-9	-9	-9	-9	-9
107	2	2398.9	34.660	2	34.659	2	1.947	1.777	27.717	0.008	0.0	2	38.8	2	2.65	2	142.1	2	-9	9	-9	9	122.52	2	1304	2	2340.0	2	7.5418	2	2419	2	-9	-9	-9	-9	-9
106	2	2599.3	34.670	2	34.670	2	1.806	1.620	27.736	0.006	0.0	2	38.0	2	2.59	2	142.7	2	-9	9	-9	9	131.02	2	1244	2	2334.7	2	7.5616	2	2434	3	-9	-9	-9	-9	-9
105	2	2800.2	34.673	2	34.673	2	1.777	1.573	27.743	0.006	0.0	2	38.1	2	2.58	2	143.5	2	-9	9	-9	9	134.96	2	1226	2	2334.2	2	7.5677	2	2426	2	-9	-9	-9	-9	-9
104	2	2999.8	34.675	2	34.678	2	1.756	1.534	27.747	0.005	0.0	2	37.9	2	2.56	2	144.8	2	-9	9	-9	9	135.10	2	1213	2	2337.3	2	7.5707	2	2425	2	-9	-9	-9	-9	-9
103	2	3201.3	34.678	2	34.681	2	1.685	1.445	27.756	0.005	0.0	2	37.7	2	2.56	2	145.3	2	-9	9	-9	9	141.38	2	1186	2	2333.0	2	-9	9	2426	2	-9	-9	-9	-9	-9
102	2	3199.9	34.678	2	34.678	2	1.684	1.443	27.756	0.005	0.0	6	37.3	6	2.55	6	146.5	6	-9	9	-9	9	141.76	2	1189	2	2335.2	2	7.5799	2	2426	2	-9	-9	-9	-9	-9
101	2	3308.0	34.679	2	34.678	2	1.682	1.431	27.758	0.006	0.0	2	37.4	2	2.29	4	146.6	2	-9	9	-9	9	143.34	2	1186	2	2334.8	2	-9	9	-9	5	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 130 DATE 4/9/94 LATITUDE 5°46.4'S Btm Depth: 3491
CAST 3 LONGITUDE 109°12.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
324	2	7.3	34.579	2	34.581	2	27.854	27.853	22.126	-9	0.0	2	3.1	2	0.41	2	3.5	2	-9	9	-9	9	203.45	2	-9	9	1971.2	2	8.0680	2	2276	2	1.60	-9	-9	-9	-9
323	2	26.0	34.614	2	34.595	2	27.704	27.697	22.202	-9	0.0	2	3.0	2	0.42	2	3.4	2	-9	9	-9	9	203.84	2	-9	9	-9	9	8.0676	2	-9	9	-9	-9	-9	-9	-9
322	2	49.7	35.339	2	-9	9	25.631	25.620	23.407	-9	0.1	2	5.4	2	0.67	2	3.6	2	-9	9	-9	9	202.79	2	-9	9	2033.4	2	-9	9	2324	2	-9	-9	-9	-9	-9
321	2	100.1	35.467	2	35.480	2	18.816	18.798	25.429	-9	1.4	2	8.9	2	1.07	2	4.6	2	-9	9	-9	9	138.80	2	-9	9	2133.3	2	7.8524	2	2335	2	-9	-9	5.1	-9	-9
320	2	150.6	34.966	2	34.977	2	13.712	13.691	26.225	-9	0.0	2	26.3	2	2.24	2	18.5	2	-9	9	-9	9	11.48	2	-9	9	2234.6	2	7.5181	2	2300	2	-9	54.9	4.3	-9	-9
319	2	202.0	34.890	2	34.889	2	12.188	12.161	26.472	-9	0.0	2	30.2	2	2.25	2	23.3	2	-9	9	-9	9	-9	1	-9	9	2235.5	2	7.5130	2	2296	2	-9	59.8	3.7	-9	-9
318	2	249.9	34.838	2	34.839	2	11.460	11.428	26.571	-9	0.0	2	32.4	2	2.32	2	26.8	2	-9	9	-9	9	18.97	2	-9	9	2243.6	2	7.4849	2	2303	2	-9	-9	-9	-9	-9
317	2	299.3	34.796	2	34.798	2	10.824	10.788	26.655	-9	0.0	2	33.5	2	2.47	2	30.9	2	-9	9	-9	9	10.33	2	-9	9	2257.6	2	7.4449	2	2301	2	-9	50.8	-9	-9	-9
316	2	400.3	34.700	2	34.703	2	9.277	9.233	26.846	-9	0.0	2	37.1	2	2.71	2	37.7	2	-9	9	-9	9	5.79	2	-9	9	2276.1	2	7.3960	2	2298	2	-9	-9	-9	-9	-9
315	2	502.0	34.616	2	34.619	2	7.699	7.649	27.024	-9	0.0	2	43.1	2	2.92	2	46.3	2	-9	9	-9	9	9.78	2	-9	9	2288.6	2	7.3694	2	2306	2	-9	-9	-9	-9	-9
314	2	599.1	34.574	2	34.574	2	6.694	6.638	27.132	-9	0.0	2	43.0	2	2.92	2	52.5	2	-9	9	-9	9	30.95	2	-9	9	2286.4	2	7.3946	2	2311	2	-9	-9	-9	-9	-9
313	2	701.0	34.552	2	34.552	2	6.023	5.960	27.203	-9	0.0	2	42.2	2	2.87	2	58.9	2	-9	9	-9	9	48.60	2	-9	9	2285.5	2	7.4214	2	2313	2	-9	-9	-9	-9	-9
312	2	800.8	34.542	2	34.543	2	5.449	5.380	27.268	-9	0.0	2	40.8	2	2.83	2	66.9	2	-9	9	-9	9	64.57	2	-9	9	2285.4	2	7.4451	2	2328	2	-9	-9	-9	-9	-9
311	2	898.3	34.541	2	34.541	2	4.819	4.746	27.341	-9	0.0	2	40.0	2	2.79	2	77.1	2	-9	9	-9	9	79.30	2	-9	9	2289.1	2	7.4674	2	2343	2	-9	-9	-9	-9	-9
310	2	1001.5	34.548	2	34.550	2	4.366	4.287	27.396	-9	0.0	2	40.0	2	2.74	2	85.0	2	-9	9	-9	9	90.87	2	-9	9	2293.4	2	7.4878	2	2345	2	-9	44.4	-9	-9	-9
309	2	1202.6	34.566	2	34.566	2	3.818	3.727	27.469	-9	0.0	2	39.3	2	2.79	2	98.5	2	-9	9	-9	9	91.74	2	-9	9	-9	9	7.4868	2	-9	9	-9	-9	-9	-9	-9
308	2	1399.9	34.587	2	34.586	2	3.319	3.216	27.535	-9	0.0	2	40.1	2	2.79	2	111.7	2	-9	9	-9	9	89.89	2	-9	9	-9	9	7.4792	2	-9	9	-9	-9	-9	-9	-9
307	2	1702.2	34.617	2	34.617	2	2.644	2.523	27.622	-9	0.0	2	39.0	2	2.72	2	127.4	2	-9	9	-9	9	103.61	2	-9	9	-9	9	7.5041	2	-9	9	-9	-9	-9	-9	-9
306	2	2002.3	34.639	2	34.640	2	2.266	2.125	27.673	-9	0.0	2	39.0	2	2.69	2	136.0	2	-9	9	-9	9	112.58	2	-9	9	-9	9	7.5213	2	-9	9	-9	-9	-9	-9	-9
305	2	2299.1	34.657	2	34.657	2	1.988	1.826	27.710	-9	0.0	2	38.2	2	2.63	2	143.0	2	-9	9	-9	9	119.97	2	-9	9	-9	9	7.5372	2	-9	9	-9	-9	-9	-9	-9
304	2	2600.9	34.670	2	34.671	2	1.789	1.603	27.737	-9	0.0	2	37.2	2	2.54	2	146.0	2	-9	9	-9	9	132.21	2	-9	9	-9	9	7.5607	2	-9	9	-9	-9	-9	-9	-9
303	2	2901.5	34.674	2	34.677	2	1.743	1.530	27.747	-9	0.0	2	37.0	2	2.52	2	147.8	2	-9	9	-9	9	137.27	2	-9	9	-9	9	7.5708	2	-9	9	-9	-9	-9	-9	-9
302	2	3200.8	34.679	2	34.681	2	1.660	1.420	27.759	-9	0.0	2	36.3	2	2.48	2	147.8	2	-9	9	-9	9	145.55	2	-9	9	-9	9	7.5810	2	-9	9	-9	-9	-9	-9	-9
301	2	3504.3	34.682	2	34.681	2	1.623	1.353	27.766	-9	0.0	2	36.7	2	2.48	2	146.8	2	-9	9	-9	9	146.31	2	-9	9	-9	9	7.5853	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 131 DATE 4/10/94 LATITUDE 5°23.6'S Btm Depth: 3605
CAST 1 LONGITUDE 109°46.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.0	34.558	2	34.529	3	27.791	27.789	22.131	-9	0.0	2	2.1	2	0.37	2	2.5	2	1.724	2	0.944	2	203.53	2	-9	9	-9	9	8.0760	2	-9	9	-9	-9	-9	-9	-9
123	2	10.0	34.558	2	34.527	3	27.791	27.789	22.131	-9	0.0	2	2.5	2	0.37	2	2.3	2	1.720	2	0.956	2	203.58	2	-9	9	-9	9	8.0788	2	-9	9	-9	-9	-9	-9	-9
122	2	24.0	34.636	2	34.647	2	27.694	27.689	22.222	-9	0.0	2	2.8	2	0.39	2	2.3	2	1.750	2	0.974	2	204.29	2	-9	9	-9	9	8.0754	2	-9	9	-9	-9	-9	-9	-9
121	2	49.0	35.282	2	35.293	2	25.468	25.457	23.414	-9	0.1	2	6.1	2	0.69	2	3.5	2	1.950	2	1.056	2	204.45	2	-9	9	-9	9	8.0079	2	-9	9	-9	-9	-9	-9	-9
120	2	99.0	35.285	2	35.258	3	17.356	17.339	25.652	-9	0.4	2	15.5	2	1.45	2	7.1	2	1.782	2	0.927	2	92.89	2	-9	9	-9	9	7.7472	2	-9	9	-9	-9	-9	-9	-9
119	2	147.0	34.956	2	34.956	2	13.153	13.133	26.332	-9	0.0	2	28.4	2	2.29	2	18.5	2	0.608	2	0.341	2	13.74	2	-9	9	-9	9	7.5130	2	-9	9	-9	-9	-9	-9	-9
118	2	201.0	34.897	2	34.883	2	12.248	12.222	26.467	-9	0.0	2	30.2	2	2.28	2	23.3	2	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
117	2	299.0	34.822	2	34.805	2	11.141	11.104	26.618	-9	0.0	2	33.6	2	2.40	2	28.9	2	0.143	2	0.076	2	15.12	2	-9	9	-9	9	7.4585	2	-9	9	-9	-9	-9	-9	-9
116	2	400.0	34.729	2	34.709	2	9.679	9.633	26.802	-9	0.0	2	37.3	2	2.69	2	36.8	2	0.023	2	0.012	2	6.51	2	-9	9	-9	9	7.3983	2	-9	9	-9	-9	-9	-9	-9
115	2	500.0	34.653	2	34.638	4	8.351	8.299	26.956	-9	0.0	2	41.5	2	2.89	2	43.5	2	0.015	2	0.009	2	6.60	2	-9	9	-9	9	7.3685	2	-9	9	-9	-9	-9	-9	-9
114	2	602.0	34.587	2	34.585	2	7.008	6.950	27.100	-9	0.0	2	43.3	2	2.94	2	49.4	2	-9	1	-9	1	23.72	2	-9	9	-9	9	7.3851	2	-9	9	-9	-9	-9	-9	-9
113	2	699.0	34.556	2	34.555	2	6.150	6.087	27.191	-9	0.0	2	42.9	2	2.90	2	56.9	2	0.009	2	0.002	2	46.11	2	-9	9	-9	9	7.4161	2	-9	9	-9	-9	-9	-9	-9
112	2	798.0	34.542	2	-9	9	5.454	5.386	27.267	-9	0.0	2	42.7	2	2.91	2	66.5	2	0.009	2	-0.002	2	65.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	999.0	34.545	2	34.546	2	4.435	4.356	27.387	-9	0.0	2	39.0	2	2.70	2	80.8	2	0.004	2	0.006	2	95.29	2	-9	9	-9	9	7.4956	2	-9	9	-9	-9	-9	-9	-9
110	2	1198.0	34.569	2	34.570	2	3.708	3.618	27.482	-9	0.0	2	40.1	2	2.75	2	99.4	2	-9	9	-9	9	96.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1403.0	34.591	2	34.592	2	3.246	3.144	27.545	-9	0.0	2	40.9	2	2.83	2	112.5	2	-9	9	-9	9	90.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1598.0	34.609	2	34.609	2	2.826	2.712	27.599	-9	0.0	2	41.0	2	2.80	2	123.6	2	-9	9	-9	9	96.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	1797.0	34.625	2	34.623	2	2.500	2.374	27.641	-9	0.0	2	39.7	2	2.69	2	128.9	2	-9	9	-9	9	109.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2097.0	34.647	2	34.645	2	2.167	2.019	27.687	-9	0.0	2	39.4	2	2.68	2	140.9	2	-9	9	-9	9	111.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2398.0	34.662	2	34.661	2	1.906	1.737	27.721	-9	0.0	2	39.1	2	2.59	2	142.9	2	-9	9	-9	9	124.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2700.0	34.671	2	34.671	2	1.780	1.585	27.740	-9	0.0	2	38.3	2	2.53	2	143.6	2	-9	9	-9	9	133.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	2999.0	34.677	2	34.677	2	1.683	1.462	27.754	-9	0.0	2	38.5	2	2.51	2	143.3	2	-9	9	-9	9	140.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3303.0	34.683	2	34.684	2	1.572	1.324	27.769	-9	0.0	2	37.7	2	2.49	2	142.3	2	-9	9	-9	9	149.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3655.0	34.685	2	34.685	2	1.590	1.306	27.771	-9	0.0	2	37.3	2	2.46	2	142.1	2	-9	9	-9	9	151.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 132 DATE 4/10/94 LATITUDE 5°0.1'S Btm Depth: 3457
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
124	2	10.2	34.697	2	-9	5	27.890	27.888	22.204	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	201.10	2	327	3	1989.8	2	-9	9	2292	2	-9	-9	-9	-9	-9
123	2	24.0	34.726	2	34.738	2	27.808	27.802	22.253	-9	0.1	2	4.8	2	0.52	2	3.3	2	-9	9	-9	9	200.58	2	329	2	1992.4	2	-9	9	2279	2	-9	-9	-9	-9	-9
122	2	48.6	35.072	2	-9	5	21.295	21.285	24.471	-9	0.4	2	12.7	2	1.15	2	6.8	2	-9	9	-9	9	148.35	2	525	2	2099.2	2	-9	9	2306	2	-9	-9	-9	-9	-9
121	2	99.0	35.091	2	35.090	2	14.633	14.618	26.125	-9	0.1	2	22.7	2	1.86	2	12.8	2	-9	9	-9	9	53.48	2	971	2	2198.5	2	-9	9	2300	2	-9	-9	-9	-9	-9
120	2	149.3	34.913	2	34.915	2	12.826	12.805	26.364	-9	0.0	2	30.7	2	2.15	2	21.9	2	-9	9	-9	9	25.39	2	1228	2	2223.4	2	-9	9	2296	2	-9	-9	-9	-9	-9
119	2	198.7	34.880	2	34.881	2	12.353	12.327	26.433	-9	0.0	2	32.3	2	2.30	2	24.8	2	-9	9	-9	9	16.00	2	1355	2	2235.7	2	-9	9	2296	2	-9	-9	-9	-9	-9
118	2	299.3	34.825	2	34.824	2	11.348	11.311	26.583	-9	0.0	2	33.6	2	2.45	2	28.3	2	-9	9	-9	9	8.18	2	1551	2	2251.7	2	-9	9	2285	2	-9	-9	3.1	-9	-9
117	2	396.7	34.727	2	34.727	2	9.743	9.697	26.790	-9	0.0	2	36.7	2	2.66	2	36.0	2	-9	9	-9	9	4.45	2	1760	2	2274.4	2	-9	9	2300	2	-9	-9	-9	-9	-9
116	2	499.5	34.652	2	34.675	4	8.448	8.395	26.941	-9	0.0	2	39.1	2	2.75	2	38.5	2	-9	9	-9	9	13.49	2	1755	3	2274.5	2	-9	9	2303	2	-9	-9	-9	-9	-9
115	2	600.4	34.599	2	34.600	2	7.340	7.281	27.063	-9	0.0	2	43.2	2	2.92	2	44.4	2	-9	9	-9	9	23.46	2	1802	2	2286.4	2	-9	9	2308	2	-9	-9	-9	-9	-9
114	2	649.8	34.575	2	34.576	2	6.813	6.751	27.118	-9	0.0	2	42.5	2	2.89	2	48.2	2	-9	9	-9	9	38.60	2	1705	2	2281.5	2	-9	9	2307	2	-9	-9	-9	-9	-9
113	2	800.8	34.540	2	34.541	2	5.622	5.553	27.245	-9	0.0	2	40.1	2	2.73	2	59.7	2	-9	9	-9	9	77.79	2	1484	2	2276.2	2	-9	9	2323	2	-9	-9	-9	-9	-9
112	2	898.2	34.538	2	34.539	2	4.936	4.862	27.325	-9	0.0	2	40.5	2	2.66	2	67.6	2	-9	9	-9	9	-9	1	1459	2	2280.8	2	-9	9	2333	2	-9	-9	-9	-9	-9
111	2	1000.1	34.546	2	34.547	2	4.468	4.388	27.384	-9	0.0	2	40.8	2	2.83	2	80.2	2	-9	9	-9	9	85.47	2	1471	2	2295.6	2	-9	9	2342	2	-9	-9	-9	-9	-9
110	2	1193.3	34.569	2	34.570	2	3.765	3.675	27.476	-9	0.0	2	40.8	2	2.78	2	97.6	2	-9	9	-9	9	92.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1399.1	34.590	2	34.591	2	3.258	3.156	27.543	-9	0.0	2	41.0	2	2.82	2	111.2	2	-9	9	-9	9	90.29	2	1422	3	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1597.9	34.606	2	34.607	2	2.875	2.760	27.592	-9	0.0	2	40.6	2	2.80	2	118.8	2	-9	9	-9	9	98.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	1797.3	34.625	2	34.626	2	2.521	2.394	27.639	-9	0.0	2	39.9	2	2.72	2	126.8	2	-9	9	-9	9	106.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2098.7	34.643	2	34.645	2	2.192	2.044	27.682	-9	0.0	2	39.4	2	2.66	2	133.5	2	-9	9	-9	9	114.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2399.6	34.660	2	34.661	2	1.932	1.762	27.718	-9	0.0	2	39.2	2	2.60	2	138.9	2	-9	9	-9	9	124.39	2	1276	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2701.5	34.671	2	34.671	2	1.775	1.580	27.740	-9	0.0	2	39.2	2	2.55	2	141.0	2	-9	9	-9	9	133.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3000.7	34.678	2	34.678	2	1.642	1.422	27.757	-9	0.0	2	37.8	2	2.48	2	141.5	2	-9	9	-9	9	142.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3301.3	34.683	2	34.685	2	1.553	1.305	27.770	-9	0.0	2	36.9	2	2.40	2	144.2	2	-9	9	-9	9	150.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3474.1	34.684	2	34.685	2	1.553	1.288	27.772	-9	0.0	2	37.2	2	2.48	2	146.1	2	-9	9	-9	9	151.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 133 DATE 4/10/94 LATITUDE 4°29.7'S Btm Depth: 3833
CAST 1 LONGITUDE 110°19.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	5.9	34.705	2	34.708	2	27.830	27.828	22.229	0.099	0.1	2	4.5	2	0.48	2	5.0	2	1.725	2	0.972	2	201.40	2	325	2	1989.5	2	8.0446	2	2283	6	1.50	-9	-9	0.179	0.076
135	2	25.2	34.776	2	34.778	2	27.756	27.750	22.307	0.110	0.1	2	4.8	2	0.52	2	5.3	2	1.716	2	0.941	2	199.50	2	332	2	1999.2	2	8.0398	2	2285	2	-9	-9	-9	0.219	0.102
134	2	50.9	35.154	2	35.153	2	19.448	19.439	25.026	0.112	0.6	2	14.8	2	1.28	2	9.8	2	1.474	2	0.771	2	127.82	2	610	2	2129.0	2	7.8155	2	2308	2	-9	-9	5.1	0.271	0.227
133	2	76.2	35.131	2	35.141	2	15.553	15.541	25.953	0.061	0.9	2	21.7	2	1.76	2	13.7	2	1.205	2	0.611	2	59.55	2	-9	9	2191.0	2	7.6651	2	2296	3	-9	56.1	3.9	0.253	0.235
132	2	101.8	34.998	2	35.002	2	13.856	13.842	26.219	0.037	0.3	2	28.1	2	2.02	2	20.0	2	0.709	6	0.373	6	31.73	2	1134	2	2213.9	2	7.5771	2	2295	2	-9	50.7	3.8	0.161	0.172
131	2	127.3	34.944	2	34.944	2	13.326	13.308	26.287	0.033	0.0	2	28.2	2	1.96	2	21.6	2	0.627	2	0.336	2	47.79	6	1058	2	2204.2	2	7.6025	2	2297	2	-9	50.0	3.1	0.073	0.079
130	2	151.2	34.936	2	34.937	2	13.178	13.157	26.312	0.032	0.0	2	30.4	2	2.12	2	23.1	2	0.554	2	0.291	2	26.61	2	1207	2	2219.1	2	7.5513	2	2299	2	-9	54.0	3.3	0.039	0.053
129	2	180.2	34.920	2	34.919	2	12.996	12.971	26.337	0.028	0.0	2	30.1	2	2.14	2	24.3	2	0.485	2	0.260	2	24.48	2	1239	2	2222.2	2	7.5430	2	2290	2	-9	-9	-9	0.016	0.025
128	2	199.9	34.912	2	34.910	2	12.843	12.816	26.361	0.027	0.0	2	31.4	2	2.21	2	25.2	2	0.428	6	0.227	6	18.22	2	1297	2	2230.4	2	7.5229	2	2298	2	-9	53.5	-9	0.010	0.016
127	2	220.7	34.899	2	34.897	2	12.650	12.620	26.390	0.027	0.0	2	31.6	2	2.24	2	26.1	2	0.363	2	0.198	2	16.33	2	1335	2	2234.1	2	7.5115	2	2301	2	-9	-9	-9	-9	-9
126	2	249.6	34.883	2	34.883	2	12.386	12.352	26.430	0.027	0.0	2	32.5	2	2.32	2	27.4	2	0.281	2	0.157	2	9.49	2	1417	2	2242.0	2	7.4876	2	2294	2	-9	-9	-9	-9	-9
125	2	298.9	34.858	2	34.856	2	11.895	11.856	26.506	0.028	0.0	2	32.9	2	2.38	2	28.8	2	0.214	2	0.117	2	10.14	2	-9	9	2248.5	2	-9	9	2297	2	-9	51.3	3.3	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	352.2	34.813	2	34.816	2	11.152	11.108	26.610	0.030	0.0	2	33.7	2	2.47	2	31.6	2	0.136	6	0.081	6	7.43	2	1578	2	2258.5	2	7.4463	2	2308	2	-9	-9	-9	-9	-9
122	2	400.4	34.733	2	34.734	2	9.839	9.793	26.779	0.028	0.0	2	36.4	2	2.67	2	38.1	2	0.050	2	0.029	2	5.43	2	1743	2	2273.9	2	7.4048	2	2293	2	-9	50.7	2.9	-9	-9
121	2	502.0	34.649	2	34.649	2	8.366	8.313	26.951	0.029	0.0	2	40.5	2	2.77	2	43.9	2	0.021	2	0.010	2	19.05	2	1754	2	2276.8	2	7.4053	2	2304	2	-9	54.3	2.6	-9	-9
120	2	598.4	34.594	2	34.594	2	7.277	7.218	27.069	0.028	0.0	2	41.3	2	2.79	2	47.7	2	0.009	2	0.003	2	39.79	2	1672	2	2273.8	2	7.4276	2	2315	2	-9	53.0	3.4	-9	-9
119	2	700.6	34.557	2	34.559	2	6.285	6.221	27.175	0.023	0.0	2	42.6	2	2.87	2	55.0	2	0.006	2	-0.002	2	50.97	2	1667	2	2279.9	2	7.4286	2	2310	2	-9	-9	-9	-9	-9
118	2	800.5	34.544	2	34.544	2	5.637	5.567	27.246	0.021	0.0	2	40.0	2	2.76	2	61.4	2	0.004	2	0.002	2	73.06	2	1520	2	2278.1	2	7.4671	2	2322	2	-9	45.3	-9	-9	-9
117	2	901.1	34.537	2	34.538	2	5.102	5.026	27.305	0.018	0.0	2	39.8	2	2.79	2	69.5	2	0.006	2	0.002	2	84.72	2	1478	2	2281.5	2	7.4786	2	2330	2	-9	-9	-9	-9	-9
116	2	999.5	34.543	2	34.542	2	4.476	4.397	27.381	0.017	0.0	2	38.9	2	2.73	2	79.1	2	0.005	2	-0.002	2	96.05	2	1417	2	2286.6	2	7.4970	2	2344	6	-9	45.2	3.2	-9	-9
115	2	1200.4	34.569	2	34.570	2	3.745	3.654	27.478	0.016	0.0	2	39.4	2	2.78	2	99.1	2	0.003	2	0.000	2	94.27	2	1451	2	2307.9	2	7.4917	2	2366	2	-9	-9	-9	-9	-9
114	2	1398.5	34.589	2	34.590	2	3.309	3.206	27.538	0.016	0.0	2	39.7	2	2.84	2	112.3	2	0.001	2	-0.002	2	90.28	2	1496	2	2326.0	2	7.4794	2	2377	2	-9	-9	-9	-9	-9
113	2	1597.6	34.606	2	34.607	2	2.932	2.817	27.587	0.014	0.0	2	39.8	2	2.81	2	121.1	2	-9	9	-9	9	94.89	2	1471	2	2332.4	2	7.4894	2	2387	2	-9	-9	-9	-9	-9
112	2	1798.1	34.625	2	34.626	2	2.517	2.390	27.640	0.011	0.0	2	39.3	2	2.74	2	128.8	2	0.005	2	-0.002	2	104.82	2	1413	2	2335.6	2	7.5073	2	-9	5	-9	-9	-9	-9	-9
111	2	1990.8	34.641	2	34.641	2	2.272	2.132	27.674	0.008	0.0	2	39.3	2	2.74	2	137.0	2	-9	9	-9	9	108.53	2	1394	2	2342.8	2	7.5169	2	2410	2	-9	39.5	-9	-9	-9
110	2	2186.9	34.651	2	34.653	2	2.089	1.935	27.697	0.010	0.0	2	38.5	2	2.68	2	141.5	2	-9	9	-9	9	115.75	6	1346	2	2339.5	2	7.5293	2	-9	5	-9	-9	-9	-9	-9
109	2	2402.9	34.659	2	34.659	2	1.925	1.755	27.717	0.010	0.0	2	38.0	2	2.61	2	142.2	2	0.006	2	0.001	2	126.06	2	1293	2	2337.9	2	7.5443	2	2412	2	-9	-9	-9	-9	-9
108	2	2604.2	34.667	2	34.668	2	1.828	1.641	27.733	0.007	0.0	2	38.0	2	2.59	2	143.3	2	-9	9	-9	9	130.97	2	1267	2	2339.2	2	7.5561	2	2420	2	-9	-9	-9	-9	-9
107	2	2798.6	34.673	2	34.673	2	1.737	1.534	27.746	0.007	0.0	2	37.5	2	2.51	2	142.4	2	-9	9	-9	9	136.93	2	1225	2	2337.0	2	7.5681	2	2420	2	-9	-9	-9	-9	-9
106	2	3001.2	34.678	2	34.678	2	1.642	1.422	27.757	0.004	0.0	2	36.9	2	2.45	2	142.3	2	0.002	2	-0.002	2	143.39	2	1195	2	2333.4	2	7.5782	2	2423	2	-9	39.5	-9	-9	-9
105	2	3200.0	34.682	2	34.682	2	1.577	1.339	27.767	0.006	0.0	2	37.1	2	2.50	2	144.1	2	-9	9	-9	9	148.54	2	1158	2	2331.0	2	7.5882	2	2426	2	-9	-9	-9	-9	-9
104	2	3400.6	34.685	2	34.685	2	1.546	1.288	27.772	0.006	0.0	2	36.5	2	2.47	2	145.4	2	-9	9	-9	9	151.78	2	1146	2	2330.0	2	7.5926	2	-9	5	-9	-9	-9	-9	-9
103	2	3603.3	34.686	2	34.688	2	1.526	1.249	27.776	0.006	0.0	2	36.0	2	2.45	2	147.6	2	-0.001	2	-0.002	2	153.81	2	1128	2	2328.3	2	7.5995	2	2426	2	-9	-9	-9	-9	-9
102	2	3603.1	34.686	2	34.685	2	1.526	1.249	27.776	0.006	0.0	2	36.2	2	2.44	2	146.6	2	-9	9	-9	9	154.55	6	1135	2	2328.7	2	7.5967	2	2422	2	-9	-9	-9	-9	-9
101	2	3869.8	34.687	2	34.687	2	1.544	1.237	27.777	0.006	0.0	2	36.1	2	2.46	2	146.6	2	-0.001	2	0.000	2	154.33	2	1131	2	2327.3	2	7.5977	2	2421	2	-9	38.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 134 DATE 4/10/94 LATITUDE 4°0.2'S Btm Depth: 3841
CAST 1 LONGITUDE 110°19.7W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	34.742	2	34.744	2	27.923	27.921	22.226	0.088	0.1	2	4.1	2	0.50	2	3.4	2	1.740	2	0.967	2	201.78	2	323	2	1991.6	2	8.0464	2	2275	3	-9	-9	-9	-9	-9
135	2	25.6	34.776	2	34.774	2	27.711	27.705	22.322	0.110	0.1	2	4.3	2	0.52	2	3.5	2	1.736	2	0.961	2	200.75	2	-9	9	-9	9	8.0439	2	-9	9	1.50	-9	-9	-9	-9
134	2	48.6	35.072	2	35.081	2	17.655	17.646	25.414	0.100	0.5	2	17.9	2	1.44	2	11.2	2	1.194	2	0.631	2	108.73	2	689	2	2143.6	2	7.7703	2	2303	2	0.70	-9	-9	-9	-9
133	2	75.7	34.996	2	34.996	2	14.380	14.369	26.106	0.061	0.3	6	23.9	6	1.76	6	16.8	6	0.808	2	0.415	2	69.18	2	-9	9	-9	9	7.6658	2	-9	9	0.40	-9	-9	-9	-9
132	2	98.2	34.977	2	-9	9	13.991	13.977	26.174	0.051	-9	1	-9	1	-9	1	-9	1	0.775	6	0.413	6	61.31	6	954	2	2187.3	2	-9	9	2293	2	-9	-9	-9	-9	-9
131	2	123.6	34.952	2	34.950	2	13.525	13.507	26.252	0.036	0.1	2	26.6	2	1.87	2	19.1	2	0.685	2	0.367	2	56.47	2	-9	9	-9	9	7.6246	2	-9	9	0.30	-9	-9	-9	-9
130	2	151.9	34.941	2	34.941	2	13.318	13.297	26.287	0.035	0.0	2	27.0	2	1.90	2	19.5	2	0.661	2	0.357	2	58.04	2	1016	2	-9	9	7.6225	2	-9	9	0.30	-9	-9	-9	-9
129	2	175.7	34.915	2	34.914	2	12.956	12.931	26.341	0.030	0.0	2	28.0	2	1.96	2	20.7	2	0.579	2	0.321	2	54.53	2	1058	2	2196.8	2	7.6067	2	2301	2	-9	-9	-9	-9	-9
128	2	197.9	34.907	2	34.906	2	12.847	12.820	26.357	0.030	0.0	2	27.7	2	1.96	2	21.2	2	0.556	2	0.303	2	54.35	2	1065	2	2203.4	2	7.6014	2	2290	2	0.30	-9	-9	-9	-9
127	2	225.5	34.901	2	34.900	2	12.746	12.716	26.373	0.030	0.0	2	29.5	2	2.06	2	22.6	2	0.481	2	0.265	2	39.74	2	-9	9	-9	9	7.5688	2	-9	9	-9	-9	-9	-9	-9
126	2	246.9	34.900	2	34.898	2	12.686	12.653	26.384	0.029	0.0	2	31.3	2	2.19	2	23.3	2	0.421	2	0.233	2	27.02	2	-9	9	2225.9	2	7.5351	2	2294	2	-9	-9	-9	-9	-9
125	2	298.8	34.882	2	34.881	2	12.320	12.281	26.443	0.030	0.0	2	33.2	2	2.35	2	25.5	2	0.271	6	0.147	6	9.81	2	1429	2	2242.3	2	7.4857	2	2294	2	0.00	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	349.0	34.825	2	34.826	2	11.364	11.319	26.581	0.029	0.0	2	34.0	2	2.48	2	28.9	2	0.170	2	0.095	2	7.15	2	-9	9	-9	9	7.4473	2	-9	9	-9	-9	-9	-9	-9
122	2	403.5	34.736	2	34.737	2	9.892	9.846	26.772	0.028	0.0	2	36.6	2	2.72	2	35.8	2	0.060	6	0.029	6	4.38	2	1763	2	2275.1	2	7.4026	2	2306	2	0.00	-9	-9	-9	-9
121	2	500.7	34.650	2	34.649	2	8.348	8.295	26.954	0.030	0.0	2	40.8	2	2.84	2	44.0	2	0.027	2	0.012	2	12.99	2	1804	2	2282.2	2	7.3933	2	2301	2	0.00	-9	-9	-9	-9
120	2	548.3	34.617	2	34.617	2	7.714	7.658	27.024	0.026	0.0	6	41.7	6	2.85	6	47.1	6	0.015	2	0.006	2	26.66	6	1731	2	2279.3	2	7.4096	2	2309	2	0.10	-9	-9	-9	-9
119	2	600.2	34.602	2	34.600	2	7.266	7.207	27.076	0.024	0.0	2	43.4	2	2.92	2	50.8	2	0.014	2	0.003	2	25.56	2	1779	2	2286.1	2	7.3985	2	-9	5	0.00	-9	-9	-9	-9
118	2	699.0	34.572	2	34.572	2	6.499	6.434	27.159	0.024	0.0	2	44.1	2	2.92	2	56.2	2	0.008	2	-0.002	2	38.64	2	1742	2	2287.7	2	7.4113	2	2317	2	0.10	-9	-9	-9	-9
117	2	799.1	34.546	2	34.546	2	5.711	5.641	27.239	0.021	0.0	2	40.8	2	2.81	2	61.4	2	-9	1	-9	1	69.83	2	1538	2	2278.2	2	7.4604	2	2319	2	0.20	-9	-9	-9	-9
116	2	898.3	34.537	2	34.538	2	4.962	4.888	27.321	0.017	0.0	2	39.7	2	2.76	2	69.3	2	0.005	2	0.001	2	88.48	2	1444	2	2279.7	2	7.4875	2	2335	2	0.40	-9	-9	-9	-9
115	2	998.4	34.547	2	34.547	2	4.339	4.261	27.398	0.015	0.0	2	38.5	2	2.74	2	82.4	2	-9	9	-9	9	96.58	2	1409	2	2288.1	2	7.4986	2	2346	6	-9	-9	-9	-9	-9
114	2	1197.4	34.572	2	34.573	2	3.661	3.571	27.489	0.015	0.0	6	40.1	6	2.82	6	101.1	6	0.007	2	0.001	2	91.78	2	-9	9	-9	9	7.4840	2	-9	9	0.10	-9	-9	-9	-9
113	2	1399.3	34.593	2	34.593	2	3.214	3.112	27.550	0.016	0.0	2	40.8	2	2.79	2	111.7	2	-9	1	-9	1	89.73	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
112	2	1600.9	34.612	2	34.612	2	2.808	2.694	27.603	0.013	0.0	2	40.5	2	2.74	2	121.1	2	-9	9	-9	9	98.10	2	-9	9	-9	9	7.4949	2	-9	9	-0.10	-9	-9	-9	-9
111	2	1797.7	34.627	2	34.628	2	2.490	2.364	27.644	0.012	0.0	2	40.1	2	2.71	2	127.7	2	-9	9	-9	9	104.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1994.7	34.644	2	34.644	2	2.244	2.104	27.678	0.011	0.0	2	39.4	2	2.67	2	138.8	2	-9	9	-9	9	107.49	2	-9	9	-9	9	7.5147	2	-9	9	-0.10	-9	-9	-9	-9
109	2	2249.7	34.652	2	34.652	2	2.066	1.907	27.700	0.010	0.0	6	39.2	6	2.65	6	141.3	6	-9	9	-9	9	115.47	2	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
108	3	2493.0	34.662	2	-9	5	1.883	1.705	27.724	0.008	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	3	2748.1	34.670	2	34.671	2	1.780	1.581	27.740	0.006	0.0	2	38.1	2	2.58	2	141.9	2	-9	9	-9	9	134.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2999.4	34.676	2	34.676	2	1.661	1.441	27.754	0.006	0.0	2	37.3	2	2.53	2	143.1	2	-9	9	-9	9	141.39	2	-9	9	-9	9	7.5738	2	-9	9	0.00	-9	-9	-9	-9
105	2	3248.2	34.682	2	34.683	2	1.574	1.331	27.767	0.006	0.0	2	37.1	2	2.49	2	146.4	2	-9	9	-9	9	148.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3502.6	34.687	2	34.687	2	1.502	1.236	27.778	0.006	0.0	2	36.8	2	2.44	2	146.9	2	-9	9	-9	9	154.26	2	-9	9	-9	9	7.5966	2	-9	9	0.10	-9	-9	-9	-9
103	2	3749.1	34.688	2	34.690	2	1.497	1.205	27.781	0.007	0.0	2	36.6	2	2.44	2	145.6	2	-9	9	-9	9	156.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3750.3	34.688	2	34.689	2	1.497	1.205	27.781	0.007	0.0	2	36.7	2	2.43	2	144.7	2	-9	9	-9	9	156.92	2	-9	9	-9	9	7.6012	2	-9	9	-9	-9	-9	-9	-9
101	2	3907.7	34.688	2	34.689	2	1.511	1.202	27.781	0.007	0.0	6	36.8	6	2.43	6	144.8	6	-9	9	-9	9	156.60	6	-9	9	-9	9	-9	9	-9	9	0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 135 DATE 4/11/94 LATITUDE 3°29.9'S Btm Depth: 3915
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	3	7.7	34.765	2	-9	5	27.776	27.774	22.291	0.091	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	330	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
135	2	8.1	34.767	2	34.771	2	27.732	27.730	22.307	0.091	0.1	2	4.5	2	0.51	2	3.8	2	1.763	2	0.949	2	204.79	2	-9	9	1997.3	2	8.0359	2	2284	2	-9	62.6	5.8	-9	-9
134	2	23.7	34.800	2	34.811	2	27.345	27.340	22.458	0.105	0.1	2	5.0	2	0.55	2	3.6	2	1.756	2	0.959	2	202.03	2	-9	9	-9	9	8.0246	2	-9	9	-9	58.3	5.5	-9	-9
133	2	47.3	35.030	2	35.039	2	15.521	15.514	25.881	0.134	0.4	2	20.6	2	1.55	2	14.6	2	0.943	6	0.495	6	89.39	2	-9	9	-9	9	7.7192	2	-9	9	-9	45.5	4.6	-9	-9
132	2	74.6	34.983	2	34.983	2	14.146	14.135	26.145	0.078	0.3	2	24.4	2	1.74	2	17.6	2	0.791	2	0.419	2	66.85	2	-9	9	-9	9	7.6563	2	-9	9	-9	-9	3.4	-9	-9
131	2	100.4	34.960	2	34.962	2	13.695	13.681	26.223	0.046	0.3	2	26.0	2	1.86	2	18.7	2	0.698	2	0.384	2	56.09	2	-9	9	-9	9	7.6278	2	-9	9	-9	41.3	3.5	-9	-9
130	2	125.3	34.951	2	34.951	2	13.527	13.509	26.251	0.039	0.1	2	26.4	2	1.88	2	19.1	2	0.698	2	0.366	2	56.07	2	-9	9	-9	9	7.6260	2	-9	9	-9	44.0	-9	-9	-9
129	2	150.4	34.933	2	34.933	2	13.252	13.231	26.294	0.031	0.0	2	26.9	2	1.90	2	19.7	2	0.648	6	0.346	6	57.29	2	-9	9	-9	9	7.6219	2	-9	9	-9	-9	-9	-9	-9
128	3	173.6	34.918	2	34.913	2	13.025	13.001	26.329	0.030	0.0	2	28.3	2	1.99	2	21.0	2	0.560	2	0.306	2	47.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	201.5	34.899	2	34.901	2	12.762	12.735	26.368	0.031	0.0	2	27.1	2	1.93	2	21.4	2	0.560	2	0.305	2	57.79	2	-9	9	-9	9	7.6097	2	-9	9	-9	-9	-9	-9	-9
126	2	224.8	34.892	2	34.892	2	12.668	12.638	26.381	0.031	0.0	2	28.0	2	1.96	2	22.0	2	0.520	2	0.285	2	55.30	2	-9	9	-9	9	7.6009	2	-9	9	-9	-9	-9	-9	-9
125	2	250.8	34.886	2	34.885	2	12.576	12.542	26.395	0.031	0.0	2	28.3	2	2.01	2	22.4	2	0.493	6	0.262	6	49.65	2	-9	9	-9	9	7.5866	2	-9	9	-9	37.3	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	350.8	34.843	2	34.845	2	11.666	11.621	26.539	0.028	0.0	2	33.1	2	2.44	2	27.8	2	0.187	2	0.106	2	6.34	2	-9	9	-9	9	7.4566	2	-9	9	-9	-9	-9	-9	-9
122	2	395.0	34.772	2	34.770	2	10.516	10.469	26.693	0.028	0.0	2	34.5	2	2.66	2	33.8	2	0.077	2	0.043	2	2.61	2	-9	9	-9	9	7.4098	2	-9	9	-9	41.7	2.8	-9	-9
121	3	449.6	34.697	2	34.696	2	9.208	9.158	26.855	0.027	0.0	2	38.3	2	2.81	2	39.5	2	0.028	2	0.016	2	5.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	498.6	34.651	2	34.651	2	8.385	8.333	26.949	0.028	0.0	2	40.9	2	2.82	2	42.5	2	-9	9	-9	9	16.02	2	-9	9	-9	9	7.3990	2	-9	9	-9	-9	-9	-9	-9
119	2	597.4	34.596	2	34.596	2	7.289	7.231	27.069	0.024	0.0	2	41.2	2	2.74	2	48.1	2	0.018	2	0.004	2	39.07	2	-9	9	-9	9	7.4264	2	-9	9	-9	-9	-9	-9	-9
118	2	698.4	34.567	2	34.567	2	6.354	6.290	27.174	0.024	0.0	2	41.9	2	2.88	2	57.8	2	0.016	2	0.000	2	49.27	2	-9	9	-9	9	7.4285	2	-9	9	-9	-9	-9	-9	-9
117	2	800.6	34.556	2	34.556	2	5.743	5.673	27.243	0.022	0.0	2	41.9	2	2.90	2	65.7	2	-9	9	-9	9	57.63	2	-9	9	-9	9	7.4393	2	-9	9	-9	-9	-9	-9	-9
116	2	899.1	34.540	2	34.540	2	5.060	4.985	27.313	0.019	0.0	2	40.7	2	2.77	2	69.9	2	0.007	2	0.000	2	84.52	2	-9	9	-9	9	7.4815	2	-9	9	-9	35.6	-9	-9	-9
115	2	997.3	34.543	2	34.545	2	4.553	4.473	27.372	0.016	0.0	2	39.7	2	2.75	2	81.1	2	-9	9	-9	9	92.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1201.7	34.567	2	34.568	2	3.805	3.713	27.471	0.017	0.0	2	40.0	2	2.80	2	100.2	2	-9	9	-9	9	91.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1398.2	34.595	2	34.596	2	3.179	3.078	27.555	0.016	0.0	2	40.6	2	2.84	2	118.9	2	-9	9	-9	9	89.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1594.7	34.615	2	34.616	2	2.766	2.653	27.609	0.015	0.0	2	40.3	2	2.83	2	131.2	2	-9	9	-9	9	92.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1797.8	34.634	2	34.634	2	2.468	2.342	27.650	0.015	0.0	2	40.0	2	2.79	2	141.9	2	-9	9	-9	9	95.23	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2002.0	34.646	2	34.647	2	2.231	2.091	27.681	0.012	0.0	2	39.7	2	2.74	2	147.6	2	-9	9	-9	9	103.28	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2248.5	34.654	2	34.655	2	2.012	1.854	27.706	0.010	0.0	2	38.3	2	2.66	2	146.4	2	-9	9	-9	9	117.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2500.9	34.663	2	34.663	2	1.845	1.668	27.728	0.009	0.0	2	37.8	2	2.61	2	146.9	2	-9	9	-9	9	125.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2747.6	34.670	2	34.670	2	1.744	1.546	27.742	0.009	0.0	2	37.5	2	2.57	2	148.5	2	-9	9	-9	9	134.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2999.6	34.675	2	34.675	2	1.638	1.419	27.755	0.007	0.0	2	37.4	2	2.54	2	148.6	2	-9	9	-9	9	140.24	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3247.8	34.682	2	34.681	2	1.561	1.319	27.768	0.006	0.0	2	37.6	2	2.50	2	148.4	2	-9	9	-9	9	148.16	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3498.0	34.687	2	34.688	2	1.499	1.233	27.778	0.006	0.0	2	36.9	2	2.45	2	148.8	2	-9	9	-9	9	154.09	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3747.6	34.689	2	34.691	2	1.478	1.187	27.783	0.007	0.0	2	36.5	2	2.44	2	149.8	2	-9	9	-9	9	157.20	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3746.7	34.689	2	34.689	2	1.478	1.187	27.783	0.007	0.0	2	36.5	2	2.45	2	149.6	2	-9	9	-9	9	157.09	6	1099	2	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3960.9	34.689	2	34.688	2	1.500	1.185	27.783	0.007	0.0	2	36.7	2	2.43	2	149.2	2	-9	9	-9	9	155.87	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 136 DATE 4/11/94 LATITUDE 3°0.0'S Btm Depth: 3915
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	34.972	2	34.976	2	26.978	26.976	22.705	0.104	0.2	2	6.6	2	0.65	2	4.4	2	-9	9	-9	9	202.37	6	371	3	-9	9	7.9962	2	2298	2	1.30	-9	-9	-9	-9
135	2	7.9	34.973	2	34.976	2	26.973	26.971	22.707	0.110	0.2	2	6.5	2	0.64	2	4.5	2	-9	9	-9	9	201.91	2	366	2	2030.0	2	7.9961	2	2297	6	-9	-9	-9	-9	-9
134	2	24.8	35.023	2	35.033	2	26.938	26.933	22.757	0.123	0.2	2	6.7	2	0.66	2	4.3	2	-9	9	-9	9	200.33	2	-9	9	-9	9	7.9913	2	-9	9	-9	-9	-9	-9	-9
133	2	48.7	35.085	2	35.116	3	19.263	19.254	25.021	0.100	0.5	2	14.6	2	1.21	2	9.5	2	-9	9	-9	9	136.29	2	582	3	2119.2	2	7.8337	2	2311	2	-9	-9	-9	-9	-9
132	3	73.4	35.003	2	35.003	2	14.191	14.180	26.151	0.052	0.4	2	24.1	2	1.73	2	17.3	2	-9	9	-9	9	71.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	2	94.9	34.931	2	34.947	2	13.352	13.339	26.271	0.044	0.1	2	24.8	2	1.75	2	19.1	2	-9	9	-9	9	75.51	2	907	2	2185.6	2	7.6605	2	2290	3	-9	-9	-9	-9	-9
130	2	124.8	34.923	2	34.922	2	13.209	13.192	26.295	0.036	0.0	2	25.5	2	1.78	2	19.7	2	-9	9	-9	9	72.18	2	-9	9	-9	9	7.6494	2	-9	9	-9	-9	-9	-9	-9
129	2	152.5	34.908	2	34.908	2	12.988	12.967	26.328	0.031	0.0	2	26.1	2	1.82	2	20.5	2	-9	9	-9	9	69.53	2	-9	9	2192.5	2	7.6396	2	2294	2	-9	-9	-9	-9	-9
128	2	199.4	34.911	2	34.911	2	12.879	12.852	26.354	0.031	0.0	2	30.2	2	2.06	2	22.7	2	-9	9	-9	9	35.57	2	1169	2	2217.1	2	7.5625	2	2301	2	-9	-9	-9	-9	-9
127	2	249.0	34.900	2	34.900	2	12.628	12.594	26.396	0.027	0.0	2	32.0	2	2.26	2	24.9	2	-9	9	-9	9	14.57	2	-9	9	2235.0	2	7.5081	2	2298	2	-9	-9	-9	-9	-9
126	2	301.7	34.884	2	34.885	2	12.351	12.311	26.439	0.028	0.0	2	32.7	2	2.29	2	25.8	2	-9	9	-9	9	13.66	2	1384	2	2239.1	2	7.4959	2	2297	2	-9	-9	-9	-9	-9
125	2	350.8	34.856	2	34.855	2	11.826	11.780	26.519	0.029	0.0	2	32.8	2	2.31	2	26.7	2	-9	9	-9	9	17.60	2	1416	2	2242.4	2	7.4895	2	2294	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	400.2	34.775	2	-9	5	10.583	10.535	26.684	0.026	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	500.1	34.644	2	34.643	2	8.231	8.179	26.967	0.026	0.0	2	41.1	2	2.80	2	45.3	2	-9	9	-9	9	15.19	2	1792	2	2280.7	2	7.3954	2	2306	2	-9	-9	-9	-9	-9
121	2	599.6	34.596	2	34.597	2	7.204	7.145	27.080	0.023	0.0	2	42.1	2	2.84	2	50.8	2	-9	9	-9	9	33.92	6	1711	6	2280.4	2	7.4142	2	2309	2	-9	-9	-9	-9	-9
120	2	702.7	34.566	2	34.569	2	6.391	6.326	27.168	0.023	0.0	2	42.3	2	2.83	2	56.6	2	-9	9	-9	9	50.33	6	1641	2	2280.2	2	7.4336	2	2315	2	-9	-9	-9	-9	-9
119	2	798.3	34.553	2	34.554	2	5.696	5.626	27.247	0.021	0.0	2	42.3	2	2.86	2	65.5	2	-9	9	-9	9	61.10	2	1604	2	2285.2	2	7.4434	2	2323	2	-9	-9	-9	-9	-9
118	2	889.9	34.552	2	34.552	2	5.224	5.149	27.303	0.021	0.0	2	42.2	2	2.84	2	73.5	2	-9	9	-9	9	66.21	2	1589	2	2292.8	2	7.4487	2	2334	2	-9	-9	-9	-9	-9
117	2	998.4	34.543	2	34.544	2	4.658	4.577	27.361	0.017	0.0	2	39.4	2	2.73	2	79.3	2	-9	9	-9	9	90.31	2	1456	2	2285.8	3	7.4884	2	2342	6	-9	-9	-9	-9	-9
116	2	1099.1	34.555	2	34.556	2	4.246	4.160	27.415	0.017	0.0	2	39.8	2	2.78	2	89.8	2	-9	9	-9	9	89.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1199.7	34.566	2	34.567	2	3.812	3.721	27.469	0.015	0.0	2	39.8	2	2.76	2	98.0	2	-9	9	-9	9	93.49	2	-9	9	-9	9	7.4883	2	-9	9	-9	-9	-9	-9	-9
114	2	1248.6	34.575	2	34.576	2	3.644	3.551	27.493	0.015	0.0	2	40.1	2	2.80	2	103.4	2	-9	9	-9	9	89.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1398.3	34.593	2	34.594	2	3.221	3.119	27.549	0.015	0.0	2	40.4	2	2.81	2	115.3	2	-9	9	-9	9	90.20	2	-9	9	-9	9	7.4802	2	-9	9	-9	-9	-9	-9	-9
112	2	1599.7	34.615	2	34.615	2	2.781	2.667	27.607	0.015	0.0	2	40.1	2	2.79	2	128.2	2	-9	9	-9	9	94.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1786.0	34.631	2	34.631	2	2.504	2.378	27.645	0.015	0.0	2	39.8	2	2.76	2	136.8	2	-9	9	-9	9	97.37	6	-9	9	-9	9	7.4980	2	-9	9	-9	-9	-9	-9	-9
110	2	2001.5	34.644	2	34.644	2	2.290	2.149	27.674	0.011	0.0	2	39.4	2	2.73	2	142.3	2	-9	9	-9	9	102.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2250.0	34.654	2	34.654	2	2.072	1.913	27.702	0.011	0.0	2	38.8	2	2.68	2	145.7	2	-9	9	-9	9	110.19	6	-9	9	-9	9	7.5233	2	-9	9	-9	-9	-9	-9	-9
108	2	2498.2	34.661	2	34.661	2	1.911	1.733	27.721	0.009	0.0	2	38.6	2	2.63	2	146.0	2	-9	9	-9	9	120.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2749.3	34.670	2	34.670	2	1.755	1.556	27.741	0.008	0.0	2	37.6	2	2.55	2	145.8	2	-9	9	-9	9	133.07	6	-9	9	-9	9	7.5598	2	-9	9	-9	-9	-9	-9	-9
106	2	2999.9	34.675	2	34.674	2	1.669	1.449	27.753	0.007	0.0	2	37.0	2	2.50	2	146.1	2	-9	9	-9	9	139.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3246.6	34.679	2	34.679	2	1.592	1.349	27.763	0.007	0.0	2	36.7	2	2.49	2	147.6	2	-9	9	-9	9	144.59	2	-9	9	-9	9	7.5761	2	-9	9	-9	-9	-9	-9	-9
104	2	3499.0	34.687	2	34.686	2	1.492	1.226	27.779	0.006	0.0	2	36.6	2	2.43	2	147.3	2	-9	9	-9	9	153.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3699.0	34.689	2	34.693	2	1.466	1.181	27.784	0.006	0.0	2	36.4	2	2.41	2	145.8	2	-9	9	-9	9	157.57	2	-9	9	-9	9	7.6047	2	-9	9	-9	-9	-9	-9	-9
102	2	3700.8	34.689	2	34.690	2	1.467	1.181	27.783	0.006	0.0	2	35.9	2	2.41	2	145.4	2	-9	9	-9	9	157.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3952.1	34.690	2	34.690	2	1.486	1.172	27.784	0.006	0.0	2	36.2	2	2.40	2	146.0	2	-9	9	-9	9	158.99	2	-9	9	-9	9	7.6029	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 137 DATE 4/11/94 LATITUDE 2°40.0'S Btm Depth: 3901
CAST 1 LONGITUDE 110°19.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.5	35.097	2	35.102	2	26.852	26.850	22.839	0.092	0.2	2	6.7	2	0.68	2	4.8	2	1.781	2	0.991	4	201.79	2	385	2	2039.5	2	7.9881	2	2311	2	-9	-9	-9	0.140	0.061
135	2	23.7	35.081	2	-9	5	26.739	26.733	22.864	0.129	0.2	2	6.8	2	0.69	2	4.9	2	1.771	2	0.959	2	198.79	2	385	2	2040.8	2	-9	9	2307	6	-9	-9	-9	0.157	0.079
134	2	49.2	35.067	2	35.091	2	16.954	16.946	25.579	0.108	0.4	2	18.3	2	1.41	2	13.6	2	1.089	2	0.569	2	104.29	2	707	2	2147.8	2	7.7597	2	2309	2	-9	-9	-9	0.229	0.164
133	2	74.5	35.001	2	35.000	2	14.179	14.169	26.152	0.056	0.5	2	22.8	2	1.68	2	17.7	2	0.802	2	0.427	2	78.13	2	857	2	2176.0	2	7.6821	2	2301	2	-9	47.1	3.5	0.251	0.211
132	2	100.4	34.940	2	34.939	2	13.398	13.384	26.269	0.040	0.2	2	24.0	2	1.71	2	19.4	2	0.730	6	0.395	6	77.39	2	892	2	2180.4	2	7.6664	2	2299	2	-9	49.3	3.5	0.188	0.174
131	2	121.8	34.925	2	34.925	2	13.246	13.229	26.289	0.039	0.0	2	25.4	2	1.79	2	20.3	2	0.688	2	0.362	2	69.29	2	947	2	2186.9	2	7.6448	2	2299	2	-9	47.0	3.9	0.090	0.106
130	2	148.5	34.921	2	34.920	2	13.152	13.131	26.305	0.030	0.0	2	26.6	2	1.87	2	20.9	2	0.656	2	0.340	2	58.57	2	1009	2	2195.3	2	7.6227	2	2299	2	-9	-9	-9	0.021	0.040
129	2	175.7	34.913	2	34.912	2	12.986	12.962	26.333	0.030	0.0	2	27.0	2	1.90	2	21.6	2	0.590	2	0.323	2	55.51	2	1033	2	2200.0	2	7.6097	2	2299	2	-9	-9	-9	0.005	0.019
128	2	200.5	34.903	2	34.902	2	12.839	12.812	26.355	0.026	0.0	2	28.3	2	2.00	2	23.1	2	0.530	6	0.290	6	43.70	2	1116	2	2209.6	2	7.5802	2	2300	2	-9	46.8	-9	0.003	0.017
127	2	251.8	34.887	2	34.888	2	12.552	12.518	26.401	0.031	0.0	2	31.0	2	2.18	2	25.4	2	0.409	2	0.228	2	23.53	2	1289	2	2227.8	2	7.5257	2	2300	2	-9	-9	-9	-9	-9
126	2	300.8	34.860	2	34.859	2	11.888	11.849	26.509	0.027	0.0	2	31.9	2	2.30	2	26.5	2	0.243	6	0.137	6	17.55	2	1406	2	2240.9	2	7.4898	2	2300	2	-9	46.0	-9	-9	-9
125	3	350.5	34.798	2	-9	5	10.916	10.873	26.642	0.029	-9	9	-9	9	-9	9	-9	9	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.7	34.735	2	34.735	2	9.860	9.813	26.776	0.026	0.0	2	36.1	2	2.70	2	36.7	2	0.049	2	0.029	2	4.71	2	1767	2	2274.4	2	7.4028	2	2303	2	-9	44.9	-9	-9	-9
122	2	498.8	34.638	2	34.637	2	8.090	8.038	26.984	0.028	0.0	2	40.9	2	2.85	2	46.0	2	0.022	2	0.005	2	14.41	2	1807	2	2284.5	2	7.3915	2	2306	2	-9	-9	-9	-9	-9
121	2	599.0	34.595	2	34.594	2	7.112	7.054	27.092	0.024	0.0	2	42.1	2	2.90	2	52.6	2	0.017	2	0.018	2	28.97	2	1766	2	2284.7	2	7.4017	2	2312	2	-9	38.5	-9	-9	-9
120	2	699.8	34.560	2	34.559	2	6.189	6.126	27.189	0.024	0.0	2	41.1	2	2.80	2	58.7	2	0.001	2	-0.002	2	56.50	2	1611	2	2279.3	2	-9	9	2322	2	-9	-9	-9	-9	-9
119	2	800.4	34.550	2	34.549	2	5.533	5.464	27.263	0.022	0.0	2	40.0	2	2.83	2	67.8	2	-0.001	2	-0.002	2	67.49	2	1572	2	2286.1	2	7.4444	2	2329	2	-9	-9	-9	-9	-9
118	2	898.1	34.552	2	34.553	2	5.040	4.966	27.324	0.019	0.0	2	40.6	2	2.85	2	77.9	2	0.000	2	-0.002	2	67.67	2	1584	2	2296.6	2	7.4519	2	2343	2	-9	-9	-9	-9	-9
117	2	999.6	34.555	2	34.553	2	4.524	4.445	27.385	0.018	0.0	2	39.9	2	2.82	2	85.8	2	0.001	2	0.000	2	79.44	2	1528	2	2301.3	2	7.4672	2	2348	6	-9	39.6	2.1	-9	-9
116	2	1202.3	34.575	2	34.576	2	3.677	3.587	27.490	0.015	0.0	2	39.5	2	2.80	2	103.4	2	-0.002	2	0.000	2	87.87	2	1497	2	2316.8	2	7.4800	2	2368	2	-9	-9	-9	-9	-9
115	2	1399.6	34.597	2	34.597	2	3.138	3.037	27.560	0.016	0.0	2	39.5	2	2.80	2	117.1	2	-0.002	2	-0.002	2	92.21	2	1479	3	2328.5	2	7.4879	2	2384	2	-9	-9	-9	-9	-9
114	2	1601.4	34.615	2	34.617	2	2.734	2.621	27.612	0.012	0.0	2	39.2	2	2.75	2	126.1	2	-0.002	2	-0.002	2	98.58	2	1445	2	2334.2	2	7.4985	2	2401	2	-9	-9	-9	-9	-9
113	2	1799.9	34.634	2	34.634	2	2.443	2.317	27.652	0.012	0.0	2	39.2	2	2.77	2	137.1	2	-9	9	-9	9	97.80	2	1442	2	2348.7	2	7.5007	2	2410	2	-9	-9	-9	-9	-9
112	2	2001.0	34.643	2	34.644	2	2.277	2.136	27.675	0.010	0.0	2	40.0	2	2.74	2	140.6	2	0.004	2	-0.002	2	103.59	2	1406	2	2348.6	2	7.5103	2	2411	2	-9	-9	-9	-9	-9
111	2	2200.8	34.652	2	34.653	2	2.099	1.944	27.698	0.010	0.0	2	38.8	2	2.71	2	144.9	2	-9	9	-9	9	109.02	2	1377	2	2351.2	2	7.5222	2	2417	2	-9	-9	-9	-9	-9
110	2	2402.9	34.659	2	34.661	2	1.932	1.762	27.717	0.009	0.0	2	38.1	2	2.65	2	146.0	2	0.000	2	-0.002	2	119.14	2	1320	2	2345.5	2	7.5377	2	2413	2	-9	-9	-9	-9	-9
109	2	2599.4	34.665	2	34.666	2	1.825	1.638	27.731	0.008	0.0	2	37.9	2	2.60	2	147.9	2	-9	9	-9	9	125.80	6	1278	2	2342.4	2	7.5479	2	2416	2	-9	-9	-9	-9	-9
108	2	2801.4	34.671	2	34.671	2	1.735	1.532	27.744	0.006	0.0	2	37.0	2	2.56	2	148.0	2	-9	9	-9	9	134.37	2	1242	2	2339.7	2	7.5574	2	2415	2	-9	-9	-9	-9	-9
107	2	3001.2	34.675	2	34.676	2	1.657	1.436	27.754	0.006	0.0	2	36.4	2	2.52	2	147.4	2	-9	9	-9	9	140.44	2	1209	2	2335.9	2	7.5714	2	-9	5	-9	-9	-9	-9	-9
106	2	3200.5	34.679	2	34.679	2	1.595	1.356	27.763	0.005	0.0	2	36.3	2	2.51	2	146.4	2	-9	9	-9	9	144.01	2	1191	2	2332.6	2	7.5773	2	2419	2	-9	-9	-9	-9	-9
105	2	3401.1	34.683	2	34.683	2	1.545	1.288	27.771	0.005	0.0	2	36.3	2	2.49	2	146.2	2	-9	9	-9	9	148.59	6	1163	2	2331.9	2	7.5876	2	2422	2	-9	-9	-9	-9	-9
104	2	3600.8	34.688	2	34.688	2	1.473	1.197	27.782	0.005	0.0	2	35.4	2	2.44	2	146.7	2	-9	9	-9	9	155.62	2	1124	2	2326.9	2	7.6005	2	2419	2	-9	-9	-9	-9	-9
103	2	3798.5	34.690	2	34.691	2	1.465	1.169	27.785	0.005	0.0	2	35.0	2	2.42	2	147.5	2	0.014	2	0.008	2	157.44	2	1104	2	2327.1	2	7.6070	2	2424	2	-9	-9	-9	-9	-9
102	2	3800.0	34.690	2	34.689	2	1.465	1.168	27.785	0.005	0.0	2	35.4	2	2.43	2	147.4	2	-9	9	-9	9	158.81	2	1112	2	2326.7	2	7.6047	2	2420	2	-9	-9	-9	-9	-9
101	3	3937.9	34.690	2	34.691	2	1.477	1.165	27.785	0.005	0.0	2	35.8	2	2.42	2	146.5	2	-9	9	-9	9	157.86	6	1109	2	2327.5	2	-9	9	2423	2	-9	38.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 138 DATE 4/11/94 LATITUDE 2°20.0'S Btm Depth: 3987
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.7	35.068	2	35.074	2	26.673	26.671	22.874	0.099	0.2	2	6.7	2	0.66	2	4.6	2	1.785	2	0.978	2	201.63	2	383	2	2039.1	2	7.9901	2	2311	6	1.20	-9	-9	-9	-9
135	2	25.2	35.066	2	35.091	2	23.153	23.147	23.941	0.140	0.3	2	10.5	2	0.92	2	7.1	2	1.643	2	0.877	2	169.30	2	-9	9	-9	9	-9	9	-9	9	1.10	-9	-9	-9	-9
134	2	49.8	35.058	2	35.054	2	15.462	15.455	25.916	0.102	0.3	2	22.1	2	1.61	2	15.9	2	-9	9	-9	9	79.41	2	833	2	2173.2	2	7.7010	2	2301	2	0.50	-9	-9	-9	-9
133	2	75.3	34.961	2	34.962	2	13.651	13.640	26.232	0.063	0.4	2	23.6	2	1.69	2	18.7	2	0.781	2	0.408	2	80.58	2	-9	9	-9	9	7.6780	2	-9	9	-9	-9	-9	-9	-9
132	2	99.9	34.925	2	34.924	2	13.255	13.241	26.286	0.038	0.0	2	24.6	2	1.74	2	19.8	2	-9	9	-9	9	76.23	2	915	2	2184.9	2	7.6610	2	2298	2	0.40	-9	-9	-9	-9
131	2	124.7	34.920	2	34.920	2	13.130	13.113	26.308	0.031	0.0	2	26.1	2	1.80	2	20.8	2	0.657	2	0.348	2	67.40	2	968	2	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
130	2	148.7	34.915	2	34.914	2	13.023	13.002	26.327	0.030	0.0	2	27.5	2	1.91	2	22.1	2	-9	9	-9	9	53.93	2	1053	2	2201.4	2	7.6092	2	2300	2	0.30	-9	-9	-9	-9
129	2	173.4	34.909	2	34.909	2	12.916	12.892	26.344	0.029	0.0	2	28.3	2	1.96	2	22.6	2	0.549	6	0.297	6	48.51	2	-9	9	2207.3	2	7.5916	2	2294	2	0.20	-9	-9	-9	-9
128	3	199.7	34.902	2	34.902	2	12.818	12.790	26.359	0.030	0.0	2	28.8	2	1.98	2	22.9	2	-9	9	-9	9	46.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	251.7	34.892	2	34.891	2	12.644	12.610	26.387	0.031	0.0	2	30.5	2	2.09	2	24.7	2	0.455	2	0.247	2	31.50	2	1225	2	2222.6	2	7.5467	2	2295	2	-9	-9	-9	-9	-9
126	2	302.6	34.883	2	34.882	2	12.356	12.316	26.438	0.027	0.0	2	32.5	2	2.28	2	26.3	2	-9	9	-9	9	11.47	2	-9	9	2240.4	2	7.4915	2	2296	2	0.00	-9	-9	-9	-9
125	2	352.3	34.836	2	34.837	2	11.540	11.495	26.557	0.030	0.0	2	33.4	2	2.39	2	29.2	2	0.200	2	0.104	2	9.04	2	1413	3	-9	9	7.4583	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	401.5	34.786	2	34.786	2	10.739	10.690	26.665	0.028	0.0	2	34.9	2	2.55	2	33.2	2	0.114	2	0.060	2	5.95	2	1668	2	2265.7	2	7.4255	2	2299	2	0.00	-9	-9	-9	-9
122	2	499.2	34.666	2	34.667	2	8.692	8.638	26.914	0.027	0.0	2	39.6	2	2.73	2	42.0	2	-9	9	-9	9	13.82	2	1767	2	2277.2	2	7.4002	2	2307	2	0.00	-9	-9	-9	-9
121	2	600.5	34.610	2	34.610	2	7.458	7.398	27.055	0.024	0.0	2	42.4	2	2.89	2	50.5	2	0.012	2	0.003	2	22.09	2	1802	2	2286.3	2	7.3939	2	2312	2	-9	-9	-9	-9	-9
120	2	699.7	34.569	2	34.569	2	6.439	6.375	27.163	0.022	0.0	2	41.7	2	2.85	2	56.9	2	-9	9	-9	9	47.51	2	1669	2	2282.8	2	7.4289	2	2316	2	-9	-9	-9	-9	-9
119	2	798.4	34.555	2	34.558	2	5.760	5.690	27.240	0.021	0.0	2	41.3	2	2.82	2	65.3	2	0.010	2	0.053	4	59.86	2	1613	2	2287.6	2	7.4437	2	2328	2	0.10	-9	-9	-9	-9
118	2	900.7	34.553	2	34.554	2	4.916	4.842	27.339	0.020	0.0	2	41.4	2	2.85	2	79.5	2	-9	9	-9	9	68.84	2	1580	2	2299.2	2	7.4540	2	2345	6	-9	-9	-9	-9	-9
117	2	1001.9	34.559	2	34.560	2	4.498	4.418	27.391	0.018	0.0	2	40.2	2	2.83	2	87.6	2	0.001	2	-0.002	2	73.69	2	1557	2	2306.8	2	7.4596	2	2350	2	-9	-9	-9	-9	-9
116	2	1200.7	34.574	2	34.575	2	3.754	3.664	27.482	0.017	0.0	2	39.9	2	2.81	2	103.5	2	-9	9	-9	9	-9	1	-9	9	-9	9	7.4745	2	-9	9	-9	-9	-9	-9	-9
115	2	1401.3	34.594	2	34.594	2	3.201	3.100	27.552	0.016	0.0	2	39.6	2	2.78	2	115.7	2	-9	9	-9	9	90.77	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1601.5	34.610	2	34.610	2	2.821	2.707	27.600	0.012	0.0	2	39.6	2	2.74	2	123.4	2	-9	9	-9	9	98.94	2	-9	9	-9	9	7.4976	2	-9	9	-9	-9	-9	-9	-9
113	2	1799.3	34.634	2	34.634	2	2.440	2.314	27.653	0.012	0.0	2	39.8	2	2.75	2	137.2	2	-9	9	-9	9	98.16	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1999.7	34.646	2	34.646	2	2.227	2.087	27.681	0.010	0.0	2	39.2	2	2.71	2	143.0	2	-9	9	-9	9	104.27	2	-9	9	-9	9	7.5133	2	-9	9	-9	-9	-9	-9	-9
111	2	2197.9	34.654	2	34.654	2	2.068	1.914	27.701	0.010	0.0	2	39.0	2	2.66	2	146.8	2	-9	9	-9	9	110.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2400.1	34.659	2	34.659	2	1.930	1.760	27.717	0.009	0.0	2	38.2	2	2.62	2	146.1	2	-9	9	-9	9	119.06	2	-9	9	-9	9	7.5376	2	-9	9	-9	-9	-9	-9	-9
109	2	2600.3	34.664	2	34.664	2	1.829	1.642	27.730	0.009	0.0	2	37.8	2	2.59	2	144.4	2	-9	9	-9	9	125.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2798.5	34.670	2	34.671	2	1.721	1.519	27.744	0.007	0.0	2	37.0	2	2.52	2	144.9	2	-9	9	-9	9	133.94	2	-9	9	-9	9	7.5603	2	-9	9	-9	-9	-9	-9	-9
107	2	2998.9	34.673	2	34.673	2	1.666	1.445	27.752	0.006	0.0	2	36.8	2	2.51	2	145.3	2	-9	9	-9	9	137.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3197.4	34.678	2	34.680	2	1.592	1.354	27.763	0.005	0.0	2	36.4	2	2.49	2	145.8	2	-9	9	-9	9	143.42	2	-9	9	-9	9	7.5747	2	-9	9	-9	-9	-9	-9	-9
105	2	3398.7	34.683	2	34.684	2	1.538	1.281	27.772	0.004	0.0	2	36.7	2	2.45	2	144.9	2	-9	9	-9	9	149.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3598.6	34.689	2	34.690	2	1.459	1.184	27.783	0.005	0.0	2	36.1	2	2.42	2	144.2	2	-9	9	-9	9	156.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3798.2	34.690	2	34.692	2	1.452	1.156	27.786	0.005	0.0	2	35.9	2	2.41	2	145.4	2	-9	9	-9	9	157.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3797.8	34.690	2	34.690	2	1.452	1.156	27.786	0.005	0.0	2	35.9	2	2.40	2	146.3	2	-9	9	-9	9	157.78	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4022.5	34.690	2	34.691	2	1.476	1.156	27.786	0.006	0.0	2	35.8	2	2.42	2	145.8	2	-9	9	-9	9	157.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 139 DATE 4/12/94 LATITUDE 2°0.7'S Btm Depth: 3989
CAST 1 LONGITUDE 110°20.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	35.066	2	34.691	4	26.269	26.267	23.000	0.111	0.2	2	6.6	2	0.63	2	4.0	2	2.046	4	0.967	2	201.29	6	377	2	2038.3	2	7.9904	2	2302	2	1.30	-9	-9	-9	-9
135	2	9.1	35.058	2	35.081	2	26.159	26.157	23.028	0.108	0.2	2	6.7	2	0.66	2	4.0	2	2.254	4	0.961	2	199.86	2	378	2	2039.8	2	7.9885	2	2306	2	-9	71.9	4.3	-9	-9
134	2	23.6	35.042	2	35.070	3	22.079	22.075	24.229	0.152	0.3	2	13.4	2	1.08	2	8.3	2	1.420	2	0.743	2	145.61	2	-9	9	-9	9	7.8618	2	-9	9	-9	81.1	5.2	-9	-9
133	2	49.6	35.099	2	35.106	2	15.768	15.760	25.878	0.115	0.4	2	21.2	2	1.56	2	14.0	2	1.018	2	0.522	2	81.73	2	-9	9	-9	9	7.7121	2	-9	9	-9	56.6	4.1	-9	-9
132	3	74.7	35.019	2	35.010	2	14.186	14.176	26.165	0.083	0.4	2	22.9	2	1.66	2	16.9	2	0.795	2	0.419	2	76.71	2	-9	9	-9	9	-9	9	-9	9	-9	58.1	3.7	-9	-9
131	2	100.1	34.933	2	34.931	2	13.334	13.320	26.276	0.061	0.1	2	23.7	2	1.67	2	18.6	2	0.752	6	0.393	6	83.33	2	-9	9	-9	9	-9	1	-9	9	-9	57.8	2.6	-9	-9
130	2	124.5	34.917	2	34.915	2	13.105	13.088	26.311	0.045	0.0	2	25.9	2	1.80	2	20.3	2	0.654	2	0.340	2	65.72	2	-9	9	-9	9	7.6339	2	-9	9	-9	48.5	3.3	-9	-9
129	2	147.8	34.909	2	34.908	2	13.008	12.987	26.325	0.037	0.0	2	25.4	2	1.76	2	20.2	2	0.663	2	0.349	2	72.40	2	-9	9	-9	9	7.6467	2	-9	9	-9	-9	-9	-9	-9
128	3	171.6	34.911	2	34.911	2	12.962	12.938	26.336	0.031	0.0	2	28.0	2	1.91	2	21.7	2	0.572	2	0.308	4	50.94	2	-9	9	-9	9	7.5968	2	-9	9	-9	-9	-9	-9	-9
127	2	199.1	34.909	2	34.909	2	12.861	12.833	26.356	0.029	0.0	2	29.7	2	2.06	2	22.9	2	0.476	6	0.259	2	32.93	2	-9	9	-9	9	7.5527	2	-9	9	-9	-9	-9	-9	-9
126	2	248.8	34.896	2	34.895	2	12.648	12.614	26.389	0.031	0.0	2	29.7	2	2.05	2	23.3	2	0.442	2	0.238	2	35.79	2	-9	9	-9	9	7.5539	2	-9	9	-9	-9	-9	-9	-9
125	2	281.7	34.879	2	34.879	2	12.349	12.312	26.435	0.031	0.0	2	32.1	2	2.24	2	25.8	2	-9	1	-9	1	14.06	2	1368	2	2241.7	2	7.4957	2	2295	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	349.8	34.804	2	34.803	2	11.010	10.966	26.629	0.027	0.0	2	33.7	2	2.47	2	31.1	2	0.125	6	0.070	6	6.84	2	-9	9	-9	9	7.4328	2	-9	9	-9	-9	-9	-9	-9
122	2	399.8	34.733	2	34.730	2	9.850	9.804	26.777	0.025	0.0	2	35.6	2	2.68	2	37.4	2	0.043	2	0.022	2	3.49	2	-9	9	-9	9	7.3955	2	-9	9	-9	46.4	-9	-9	-9
121	2	498.5	34.633	2	34.629	2	8.026	7.975	26.989	0.026	0.0	2	39.9	2	2.72	2	44.7	2	0.021	2	0.010	2	26.06	2	-9	9	-9	9	7.4109	2	-9	9	-9	45.6	2.4	-9	-9
120	2	600.7	34.576	2	34.577	2	6.919	6.862	27.104	0.023	0.0	2	39.3	2	2.67	2	48.9	2	0.022	2	0.013	2	56.08	2	-9	9	-9	9	7.4533	2	-9	9	-9	-9	-9	-9	-9
119	2	700.3	34.555	2	34.555	2	6.039	5.977	27.204	0.021	0.0	2	40.1	2	2.75	2	58.7	2	0.006	2	-0.002	2	62.59	6	-9	9	-9	9	7.4523	2	-9	9	-9	-9	-9	-9	-9
118	2	797.9	34.548	2	34.549	2	5.554	5.485	27.259	0.021	0.0	2	40.2	2	2.75	2	66.1	2	0.003	2	0.000	2	69.47	2	-9	9	-9	9	7.4591	2	-9	9	-9	-9	-9	-9	-9
117	2	899.6	34.553	2	34.554	2	5.002	4.927	27.329	0.019	0.0	2	40.3	2	2.83	2	78.0	2	0.006	2	0.016	2	69.87	2	-9	9	-9	9	7.4534	2	-9	9	-9	-9	-9	-9	-9
116	2	998.7	34.558	2	34.560	2	4.566	4.486	27.383	0.019	0.0	2	39.8	2	2.84	2	87.4	2	-9	9	-9	9	72.94	2	-9	9	-9	9	7.4556	2	-9	9	-9	47.3	-9	-9	-9
115	2	1100.2	34.564	2	34.564	2	4.104	4.019	27.437	0.017	0.0	2	39.7	2	2.80	2	95.5	2	-0.001	2	-0.002	2	82.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1198.7	34.574	2	34.577	2	3.764	3.674	27.481	0.017	0.0	2	40.5	2	2.81	2	102.0	2	-9	9	-9	9	86.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1400.2	34.593	2	34.594	2	3.276	3.173	27.545	0.017	0.0	2	39.8	2	2.82	2	114.0	2	0.014	2	0.000	2	86.59	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1599.1	34.607	2	34.608	2	2.910	2.795	27.590	0.015	0.0	2	39.4	2	2.78	2	122.0	2	-9	9	-9	9	95.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1799.8	34.627	2	34.628	2	2.547	2.419	27.639	0.012	0.0	2	39.3	2	2.75	2	134.3	2	0.001	2	-0.002	2	98.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1998.1	34.644	2	34.644	2	2.268	2.128	27.676	0.010	0.0	2	38.6	2	2.71	2	144.5	2	-9	9	-9	9	104.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2250.4	34.656	2	34.656	2	2.042	1.883	27.705	0.010	0.0	2	38.2	2	2.67	2	149.1	2	-9	9	-9	9	111.72	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2446.3	34.661	2	34.661	2	1.882	1.709	27.723	0.009	0.0	2	37.1	2	2.59	2	145.9	2	-9	9	-9	9	124.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2749.2	34.669	2	34.670	2	1.740	1.542	27.742	0.008	0.0	2	36.9	2	2.55	2	144.6	2	-0.001	2	-0.002	2	134.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3002.8	34.673	2	34.673	2	1.652	1.431	27.753	0.006	0.0	2	36.7	2	2.52	2	143.9	2	-9	9	-9	9	139.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3249.5	34.678	2	34.679	2	1.589	1.346	27.763	0.006	0.0	2	36.7	2	2.48	2	147.5	2	0.000	2	-0.002	2	144.00	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3488.3	34.685	2	34.685	2	1.524	1.258	27.775	0.004	0.0	2	36.0	2	2.45	2	149.2	2	-9	9	-9	9	151.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3750.6	34.690	2	-9	5	1.453	1.162	27.785	0.005	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3751.9	34.690	2	34.690	2	1.453	1.161	27.785	0.006	0.0	2	35.6	2	2.41	2	147.9	2	0.000	2	0.002	2	158.62	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4019.5	34.691	2	34.691	2	1.473	1.153	27.786	0.006	0.0	2	35.3	2	2.41	2	147.4	2	-9	9	-9	9	158.81	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 140 DATE 4/12/94 LATITUDE 1°40.0'S Btm Depth: 3906
CAST 1 LONGITUDE 110°19.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	35.076	2	35.092	2	26.799	26.797	22.840	0.108	0.2	2	6.6	2	0.69	2	5.0	2	-9	9	-9	9	200.55	2	374	2	2037.3	2	7.9923	2	2304	2	-9	-9	-9	-9	-9
135	2	8.2	35.076	2	35.078	2	26.803	26.801	22.838	0.108	0.2	2	6.6	2	0.68	2	4.4	2	1.790	2	0.963	2	200.99	2	-9	9	2037.9	2	7.9926	2	2311	2	-9	-9	-9	-9	-9
134	2	23.5	35.043	2	35.051	2	26.518	26.513	22.905	0.137	0.2	2	6.8	2	0.66	2	4.5	2	1.757	2	0.936	2	190.87	2	-9	9	-9	9	7.9882	2	-9	9	-9	-9	-9	-9	-9
133	2	49.7	35.087	2	35.103	2	18.756	18.748	25.152	0.128	0.4	2	16.6	2	1.28	2	11.0	2	1.258	2	0.653	2	120.92	6	626	2	2133.6	2	7.8039	2	2311	2	-9	-9	-9	-9	-9
132	2	75.9	35.065	2	35.076	2	15.237	15.225	25.973	0.077	0.4	2	21.8	2	1.62	2	15.1	2	0.969	2	0.504	2	76.93	2	-9	9	-9	9	7.7056	2	-9	9	-9	-9	-9	-9	-9
131	2	100.4	35.006	2	35.019	2	14.187	14.172	26.156	0.063	0.4	2	24.0	2	1.75	2	18.0	2	0.810	2	0.414	2	69.60	2	898	2	2184.5	2	7.6645	2	2303	2	-9	-9	-9	-9	-9
130	2	125.3	34.975	2	34.980	2	13.761	13.743	26.222	0.050	0.4	2	24.2	2	1.74	2	19.0	2	-9	9	-9	9	69.92	2	-9	9	-9	9	7.6663	2	-9	9	-9	-9	-9	-9	-9
129	2	149.6	34.938	2	34.936	2	13.315	13.294	26.286	0.043	0.1	2	24.5	2	1.76	2	20.0	2	0.722	2	0.372	2	74.08	2	-9	9	2184.2	2	7.6600	2	2300	2	-9	-9	-9	-9	-9
128	2	175.3	34.915	2	34.914	2	13.074	13.050	26.317	0.037	0.0	2	25.6	2	1.86	2	21.7	2	-9	9	-9	9	70.07	2	-9	9	-9	9	7.6454	2	-9	9	-9	-9	-9	-9	-9
127	2	200.6	34.910	2	34.909	2	12.993	12.965	26.330	0.030	0.0	2	26.4	2	1.90	2	21.9	2	0.646	2	0.331	2	64.83	2	978	2	2194.8	2	7.6296	2	2300	2	-9	-9	-9	-9	-9
126	2	249.6	34.904	2	34.903	2	12.838	12.803	26.358	0.029	0.0	2	28.2	2	2.04	2	23.6	2	-9	9	-9	9	49.83	2	-9	9	2207.7	2	7.5943	2	2295	2	-9	-9	-9	-9	-9
125	2	299.6	34.887	2	34.887	2	12.562	12.522	26.401	0.028	0.0	2	31.1	2	2.20	2	26.3	2	0.407	2	0.216	2	23.82	2	1278	2	2230.2	2	7.5272	2	2295	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	351.6	34.858	2	34.858	2	11.994	11.948	26.489	0.025	0.0	2	32.9	2	2.35	2	28.6	2	-9	9	-9	9	10.16	2	-9	9	-9	9	7.4782	2	-9	9	-9	-9	-9	-9	-9
122	2	399.9	34.792	2	34.790	2	10.834	10.785	26.652	0.026	0.0	2	34.3	2	2.51	2	33.0	2	0.123	2	0.064	2	9.72	2	1596	2	2260.6	2	7.4406	2	2301	2	-9	-9	-9	-9	-9
121	2	501.1	34.652	2	34.653	2	8.458	8.405	26.939	0.025	0.0	2	39.3	2	2.72	2	42.1	2	-9	9	-9	9	23.69	2	1680	2	2271.2	2	7.4206	2	2305	2	-9	-9	-9	-9	-9
120	2	601.7	34.578	2	34.578	2	6.935	6.878	27.103	0.019	0.0	2	39.6	2	2.75	2	50.2	2	0.012	2	0.005	2	56.21	2	1550	2	2267.7	2	7.4567	2	2314	2	-9	-9	-9	-9	-9
119	2	700.1	34.557	2	34.577	4	6.193	6.130	27.186	0.018	0.0	2	40.6	2	2.80	2	59.0	2	-9	9	-9	9	59.67	2	1578	2	2278.1	2	7.4502	2	2319	2	-9	-9	-9	-9	-9
118	2	802.3	34.550	2	34.557	3	5.596	5.526	27.256	0.018	0.0	2	40.6	2	2.94	2	70.4	2	0.004	2	-0.001	2	64.45	2	1580	2	2286.5	2	7.4527	2	2333	2	-9	-9	-9	-9	-9
117	2	898.2	34.552	2	34.551	2	5.005	4.931	27.328	0.017	0.0	2	40.8	2	2.97	2	81.7	2	-9	9	-9	9	68.61	2	1579	6	2299.0	2	7.4530	2	2339	2	-9	-9	-9	-9	-9
116	2	999.1	34.560	2	34.553	3	4.534	4.454	27.388	0.016	0.0	2	40.6	2	3.00	2	91.3	2	0.002	2	0.001	2	70.36	2	1576	2	2307.5	2	7.4554	2	2353	6	-9	-9	-9	-9	-9
115	2	1098.7	34.563	2	34.561	2	4.106	4.022	27.437	0.015	0.0	2	40.0	2	2.94	2	97.8	2	-9	9	-9	9	83.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1199.4	34.574	2	34.564	3	3.747	3.657	27.482	0.014	0.0	2	40.4	2	2.93	2	105.9	2	-9	9	-9	9	85.00	2	-9	9	-9	9	7.4791	2	-9	9	-9	-9	-9	-9	-9
113	2	1402.0	34.595	2	34.574	4	3.183	3.081	27.554	0.013	0.0	2	40.1	2	2.88	2	119.3	2	-9	9	-9	9	89.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1562.4	34.605	2	34.596	3	2.944	2.832	27.585	0.011	0.0	2	39.6	2	2.86	2	125.6	2	-9	9	-9	9	93.33	2	-9	9	-9	9	7.4917	2	-9	9	-9	-9	-9	-9	-9
111	2	1801.3	34.633	2	34.606	4	2.510	2.382	27.646	0.010	0.0	2	40.3	2	2.80	2	142.1	2	-9	9	-9	9	92.55	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1998.3	34.647	2	34.633	4	2.232	2.092	27.681	0.010	0.0	2	39.6	2	2.84	2	148.5	2	-9	9	-9	9	97.85	2	-9	9	-9	9	7.5116	2	-9	9	-9	-9	-9	-9	-9
109	2	2247.2	34.656	2	34.647	3	1.998	1.841	27.708	0.010	0.0	2	38.8	2	2.76	2	148.4	2	-9	9	-9	9	115.10	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2491.7	34.662	2	34.655	3	1.839	1.662	27.727	0.008	0.0	2	38.1	2	2.73	2	148.7	2	-9	9	-9	9	125.04	2	-9	9	-9	9	7.5456	2	-9	9	-9	-9	-9	-9	-9
107	2	2752.8	34.669	2	34.663	3	1.721	1.522	27.743	0.006	0.0	2	37.4	2	2.67	2	150.9	2	-9	9	-9	9	131.26	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3000.5	34.672	2	34.669	2	1.657	1.436	27.752	0.006	0.0	2	37.1	2	2.66	2	151.3	2	-9	9	-9	9	137.63	2	-9	9	-9	9	7.5635	2	-9	9	-9	-9	-9	-9	-9
105	2	3248.5	34.678	2	34.673	3	1.589	1.346	27.763	0.005	0.0	2	37.0	2	2.62	2	151.9	2	-9	9	-9	9	141.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3501.3	34.685	2	34.678	3	1.511	1.244	27.775	0.005	0.0	2	36.7	2	2.57	2	152.4	2	-9	9	-9	9	148.70	2	-9	9	-9	9	7.5894	2	-9	9	-9	-9	-9	-9	-9
103	2	3748.0	34.690	2	34.685	3	1.449	1.158	27.786	0.005	0.0	2	36.1	2	2.50	2	149.5	2	0.003	2	-0.002	2	156.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3747.3	34.690	2	34.692	2	1.449	1.158	27.786	0.005	0.0	2	36.2	2	2.50	2	150.6	2	-9	9	-9	9	153.73	2	-9	9	-9	9	7.6058	2	-9	9	-9	-9	-9	-9	-9
101	2	3951.4	34.690	2	34.691	2	1.467	1.154	27.786	0.006	0.0	2	33.8	2	2.51	2	151.2	2	-9	9	-9	9	157.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 141 DATE 4/12/94 LATITUDE 1°20.0'S Btm Depth: 3820
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	35.028	2	35.033	2	26.631	26.629	22.857	0.099	0.1	2	6.5	2	0.67	2	4.4	2	1.785	2	0.970	2	200.72	6	375	2	2034.3	2	7.9931	2	2299	2	-9	-9	-9	0.125	0.061
135	2	8.9	35.028	2	35.032	2	26.642	26.640	22.854	0.099	0.1	2	6.5	2	0.69	2	4.8	2	1.776	2	0.958	2	200.56	2	371	2	2034.3	2	7.9946	2	2300	2	-9	-9	-9	-9	-9
134	2	24.6	35.011	2	35.032	2	26.567	26.561	22.866	0.113	0.1	2	6.6	2	0.67	2	5.3	2	1.783	2	0.950	2	198.23	2	378	2	2033.9	2	7.9920	2	2303	2	-9	-9	-9	0.161	0.069
133	2	50.2	35.083	2	35.090	2	16.348	16.340	25.733	0.126	0.7	2	20.9	2	1.68	2	14.9	2	1.050	2	0.554	2	83.42	2	784	2	2169.4	2	7.7161	2	2305	2	-9	-9	-9	-9	-9
132	3	71.3	35.008	2	35.008	2	14.299	14.289	26.132	0.065	0.4	2	25.1	2	1.91	2	19.0	2	0.804	6	0.420	6	58.87	2	942	2	2190.6	2	7.6453	2	2299	2	-9	-9	2.3	0.238	0.243
131	2	87.8	34.966	2	34.975	2	13.481	13.469	26.271	0.050	0.1	2	26.3	2	1.97	2	20.7	2	0.697	2	0.361	2	57.33	2	988	2	2196.0	2	7.6281	2	2303	2	-9	44.5	2.2	0.164	0.174
130	2	107.4	34.943	2	34.945	2	13.229	13.214	26.306	0.042	0.0	2	26.4	2	1.96	2	21.6	2	0.652	2	0.337	2	62.95	2	980	2	2194.8	2	7.6322	2	2304	2	-9	45.8	2.2	0.115	0.133
129	2	148.6	34.916	2	34.914	2	12.957	12.936	26.340	0.039	0.0	2	27.0	2	1.97	2	22.6	2	0.632	2	0.335	2	61.03	2	1011	2	2198.6	2	7.6223	2	2300	2	-9	-9	-9	0.060	0.071
128	2	199.7	34.912	2	34.911	2	12.895	12.868	26.351	0.032	0.0	2	29.7	2	2.12	2	23.9	2	0.499	2	0.273	2	34.60	2	1177	2	2217.7	2	7.5593	2	-9	5	-9	45.5	-9	0.015	0.024
127	2	251.2	34.899	2	34.897	2	12.690	12.656	26.383	0.029	0.0	2	31.5	2	2.29	2	26.3	2	0.398	6	0.218	6	21.16	2	1287	2	2230.0	2	7.5247	2	2297	2	-9	-9	-9	-9	-9
126	2	300.8	34.880	2	34.881	2	12.371	12.331	26.432	0.029	0.0	2	32.1	2	2.36	2	27.9	2	0.322	2	0.172	2	16.40	2	1362	2	2238.2	2	7.5036	2	2296	2	-9	-9	-9	-9	-9
125	2	349.6	34.831	2	34.826	2	11.482	11.437	26.564	0.028	0.0	2	33.5	2	2.53	2	31.5	2	0.173	6	0.093	6	10.09	2	1526	2	2254.8	2	7.4597	2	2295	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.7	34.771	2	34.767	2	10.495	10.447	26.696	0.030	0.0	2	34.6	2	2.60	2	34.2	2	0.121	2	0.060	2	18.05	2	1554	2	2258.7	2	7.4527	2	2299	2	-9	39.0	-9	-9	-9
122	2	499.7	34.649	2	34.644	3	8.495	8.441	26.931	0.024	0.0	2	38.0	2	2.68	2	40.7	2	0.038	2	0.016	2	40.18	2	1551	2	2262.1	2	7.4529	2	2308	2	-9	-9	-9	-9	-9
121	2	599.5	34.580	2	34.578	2	7.080	7.022	27.085	0.020	0.0	2	38.7	2	2.76	2	49.7	2	0.025	2	0.043	2	60.63	2	1505	2	2265.7	2	7.4680	2	2317	2	-9	42.8	1.7	-9	-9
120	2	695.8	34.553	2	34.552	2	6.223	6.160	27.179	0.019	0.0	2	39.3	2	2.76	2	57.7	2	0.009	2	0.003	2	70.92	2	1491	2	2271.4	2	7.4735	2	2322	2	-9	-9	-9	-9	-9
119	2	800.8	34.544	2	34.544	2	5.635	5.566	27.247	0.019	0.0	2	39.4	2	2.80	2	65.7	2	0.006	2	0.002	2	76.66	2	1484	2	2277.0	2	7.4761	2	2327	2	-9	-9	-9	-9	-9
118	2	899.0	34.550	2	34.550	2	5.036	4.961	27.323	0.019	0.0	2	40.9	2	2.89	2	78.5	2	0.001	2	-0.002	2	69.93	3	1569	3	2291.7	2	-9	9	2338	2	-9	-9	-9	-9	-9
117	2	1000.8	34.551	2	34.547	2	4.567	4.487	27.377	0.017	0.0	2	39.9	2	2.79	2	84.4	2	0.002	2	0.000	2	83.54	2	1484	2	2297.5	2	7.4801	2	2351	2	-9	39.4	1.6	-9	-9
116	2	1097.2	34.559	2	34.558	2	4.188	4.103	27.425	0.016	0.0	2	39.7	2	2.82	2	92.3	2	0.011	2	0.000	2	88.39	2	1468	2	2301.7	2	7.4861	2	2345	3	-9	-9	-9	-9	-9
115	2	1197.7	34.569	2	34.568	2	3.872	3.781	27.466	0.016	0.0	2	39.9	2	2.83	2	100.3	2	-9	9	-9	9	88.64	2	1477	2	2310.5	2	7.4832	2	2363	2	-9	-9	-9	-9	-9
114	2	1400.6	34.595	2	34.596	2	3.282	3.179	27.546	0.015	0.0	2	40.8	2	2.89	2	120.7	2	-9	9	-9	9	83.66	2	1527	2	2332.6	2	7.4743	2	2386	2	-9	-9	-9	-9	-9
113	2	1600.4	34.608	2	34.609	2	2.884	2.769	27.593	0.013	0.0	2	40.0	2	2.82	2	127.6	2	-9	9	-9	9	96.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1800.8	34.631	2	34.631	2	2.513	2.386	27.645	0.012	0.0	2	40.1	2	2.81	2	141.4	2	0.000	2	-0.002	2	95.85	2	1457	2	2348.2	2	7.4965	2	2403	2	-9	-9	-9	-9	-9
111	2	1999.1	34.644	2	34.644	2	2.292	2.152	27.675	0.011	0.0	2	39.5	2	2.73	2	146.9	2	-9	9	-9	9	101.03	2	1422	2	2352.3	2	7.5090	2	2416	2	-9	35.3	-9	-9	-9
110	2	2205.7	34.654	2	34.654	2	2.016	1.861	27.705	0.010	0.0	2	38.9	2	2.71	2	149.1	2	-0.002	2	-0.002	2	113.89	2	1355	2	2347.7	2	7.5261	2	-9	5	-9	-9	-9	-9	-9
109	2	2403.8	34.657	2	34.657	2	1.932	1.762	27.716	0.009	0.0	2	38.4	2	2.66	2	148.0	2	-9	9	-9	9	119.49	6	1322	2	2343.7	2	7.5370	2	2427	2	-9	-9	-9	-9	-9
108	2	2595.3	34.665	2	34.665	2	1.795	1.609	27.733	0.009	0.0	2	37.9	2	2.62	2	148.3	2	-9	9	-9	9	127.47	2	1283	2	2342.7	2	7.5492	2	2420	2	-9	-9	-9	-9	-9
107	2	2799.1	34.670	2	34.670	2	1.734	1.531	27.743	0.007	0.0	2	37.5	2	2.61	2	151.3	2	-9	9	-9	9	130.52	2	1260	2	2344.4	2	7.5571	2	2425	2	-9	-9	-9	-9	-9
106	2	2998.6	34.672	2	34.672	2	1.711	1.490	27.747	0.007	0.0	2	37.8	2	2.61	2	151.3	2	-9	9	-9	9	132.59	2	1252	2	2342.2	2	7.5601	2	2427	2	-9	43.1	-9	-9	-9
105	2	3196.6	34.677	2	34.674	2	1.619	1.381	27.759	0.007	0.0	2	37.4	2	2.57	2	151.0	2	0.001	2	-0.002	2	139.64	2	1218	2	2336.9	2	7.5675	2	2428	2	-9	-9	-9	-9	-9
104	2	3399.1	34.680	2	34.679	2	1.577	1.319	27.767	0.006	0.0	2	36.8	2	2.53	2	153.0	2	-9	9	-9	9	142.79	2	1191	2	2336.2	2	7.5783	2	2427	2	-9	-9	-9	-9	-9
103	2	3596.5	34.685	2	34.687	2	1.512	1.236	27.777	0.006	0.0	2	36.7	2	2.51	2	154.6	2	0.000	2	-0.002	2	148.77	6	1145	2	2334.3	2	7.5936	2	2434	2	-9	-9	-9	-9	-9
102	2	3597.2	34.686	2	34.684	2	1.500	1.223	27.778	0.006	0.0	2	36.7	2	2.49	2	154.2	2	-9	9	-9	9	149.35	2	1150	2	2334.5	2	7.5925	2	2431	2	-9	-9	-9	-9	-9
101	2	3865.3	34.690	2	34.691	2	1.458	1.155	27.786	0.006	0.0	2	36.1	2	2.48	2	151.0	2	0.001	2	0.001	2	157.46	2	1111	2	2329.7	2	7.6070	2	2435	2	-9	39.4	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 142 DATE 4/13/94 LATITUDE 1°0.1'S Btm Depth: 4070
CAST 1 LONGITUDE 110°19.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	35.153	2	35.156	2	25.688	25.686	23.247	0.113	0.2	2	6.4	2	0.69	2	3.6	2	1.807	2	0.977	2	203.50	6	406	2	2042.2	2	7.9878	2	2306	2	1.20	-9	-9	-9	-9
135	2	25.3	35.141	2	35.150	2	25.339	25.333	23.346	0.155	0.2	2	6.5	2	0.70	2	3.9	2	1.792	2	0.971	2	195.33	6	-9	9	-9	9	7.9838	2	-9	9	1.20	-9	-9	-9	-9
134	2	49.2	35.306	2	35.305	2	17.444	17.436	25.644	0.155	0.8	2	18.3	2	1.57	2	9.9	2	1.354	2	0.695	2	85.26	6	722	2	2166.9	2	-9	1	2321	2	0.60	-9	-9	-9	-9
133	2	75.4	35.140	2	35.141	2	15.386	15.375	25.997	0.092	0.5	2	23.5	2	1.82	2	14.4	2	0.979	2	0.507	2	59.42	6	892	2	2188.9	2	7.6682	2	-9	9	0.40	-9	-9	-9	-9
132	3	99.3	34.918	2	34.921	2	13.188	13.174	26.295	0.038	0.0	2	22.3	2	1.60	2	17.4	2	0.829	2	0.441	2	100.44	6	-9	9	-9	9	-9	9	2307	3	0.50	-9	-9	-9	-9
131	2	124.0	34.910	2	34.910	2	13.079	13.062	26.311	0.030	0.0	2	22.8	2	1.67	2	18.4	2	0.770	6	0.401	6	97.46	6	-9	9	-9	9	7.6985	2	-9	9	0.50	-9	-9	-9	-9
130	2	149.7	34.906	2	34.906	2	13.023	13.002	26.320	0.029	0.0	2	23.5	2	1.70	2	18.5	2	-9	1	-9	1	91.69	6	851	2	2175.8	2	7.6866	2	2303	2	0.40	-9	-9	-9	-9
129	2	175.9	34.899	2	34.899	2	12.911	12.887	26.338	0.029	0.0	2	24.4	2	1.75	2	19.7	2	0.687	2	0.355	2	81.65	6	-9	9	-9	9	7.6657	2	-9	9	0.40	-9	-9	-9	-9
128	2	198.2	34.898	2	34.897	2	12.868	12.841	26.346	0.029	0.0	2	25.3	2	1.79	2	20.2	2	0.656	2	0.343	2	75.28	2	931	2	2187.8	2	7.6512	2	2301	2	0.40	-9	-9	-9	-9
127	2	221.7	34.895	2	34.897	2	12.770	12.740	26.364	0.032	0.0	2	26.5	2	1.86	2	20.7	2	0.600	6	0.315	6	66.65	2	-9	9	-9	9	7.6293	2	-9	9	0.30	-9	-9	-9	-9
126	2	249.8	34.890	2	34.890	2	12.665	12.631	26.381	0.031	0.0	2	28.3	2	1.94	2	22.3	2	0.524	2	0.277	2	59.52	2	1063	2	2206.7	2	7.5947	2	2298	2	0.30	-9	-9	-9	-9
125	2	299.2	34.876	2	34.874	2	12.366	12.326	26.430	0.031	0.0	2	31.4	2	2.24	2	24.7	2	0.354	2	0.189	2	26.19	2	1296	2	2230.1	2	7.5229	2	2297	2	0.10	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.2	34.731	2	34.731	2	9.866	9.819	26.772	0.034	0.0	2	35.0	2	2.48	2	31.7	2	0.112	2	0.059	2	35.82	2	1463	2	2249.7	2	7.4760	2	2304	2	0.20	-9	-9	-9	-9
122	2	498.3	34.636	2	34.636	2	8.370	8.318	26.940	0.028	0.0	2	36.6	2	2.49	2	38.4	2	0.061	2	0.030	2	53.38	2	1452	2	2251.3	3	7.4800	2	2305	2	0.20	-9	-9	-9	-9
121	2	599.0	34.582	2	34.581	2	7.120	7.062	27.081	0.031	0.0	2	38.4	2	2.67	2	48.1	2	0.019	2	0.009	2	59.86	2	1504	2	2262.2	2	7.4676	2	2309	2	0.20	-9	-9	-9	-9
120	2	702.0	34.555	2	34.555	2	6.240	6.176	27.178	0.025	0.0	2	39.3	2	2.74	2	56.5	2	-9	9	-9	9	68.67	2	1505	2	2270.6	2	7.4697	2	2322	2	0.20	-9	-9	-9	-9
119	3	799.0	34.545	2	34.909	4	5.570	5.501	27.255	0.023	0.1	2	24.3	4	1.79	4	25.7	4	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	0.50	-9	-9	-9	-9
118	2	898.0	34.544	2	34.545	2	5.049	4.974	27.317	0.021	0.0	2	39.7	2	2.79	2	73.9	2	-9	9	-9	9	81.93	2	1477	2	2286.2	2	7.4800	2	2340	2	0.20	-9	-9	-9	-9
117	2	1002.5	34.554	2	34.554	2	4.574	4.494	27.379	0.020	0.0	2	40.7	2	2.86	2	84.4	2	0.001	2	0.000	2	78.23	2	1510	2	2298.8	2	7.4733	2	2351	2	0.10	-9	-9	-9	-9
116	2	1060.2	34.559	2	34.559	2	4.327	4.244	27.410	0.020	0.0	2	40.9	2	2.87	2	89.2	2	-9	9	-9	9	80.86	2	-9	9	-9	9	7.4739	2	-9	9	0.10	-9	-9	-9	-9
115	2	1198.5	34.569	2	34.569	2	3.878	3.786	27.466	0.018	0.0	2	40.7	2	2.84	2	98.5	2	0.002	2	-0.002	2	86.20	2	-9	9	-9	9	-9	9	-9	9	0.10	-9	-9	-9	-9
114	2	1399.0	34.594	2	34.599	3	3.215	3.113	27.551	0.017	0.0	2	40.4	2	2.87	2	117.0	2	-9	9	-9	9	89.43	2	-9	9	-9	9	7.4836	2	-9	9	0.00	-9	-9	-9	-9
113	3	1598.1	34.607	2	34.607	2	2.915	2.800	27.590	0.016	0.0	2	40.3	2	2.85	2	123.6	2	-9	9	-9	9	94.46	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
112	2	1801.4	34.630	2	34.631	2	2.475	2.348	27.647	0.015	0.0	2	40.3	2	2.81	2	135.7	2	-9	9	-9	9	98.24	2	-9	9	-9	9	7.4999	2	-9	9	-0.10	-9	-9	-9	-9
111	2	1995.4	34.644	2	34.645	2	2.259	2.119	27.677	0.012	0.0	2	39.7	2	2.80	2	141.4	2	-9	9	-9	9	101.93	2	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
110	2	2251.8	34.654	2	34.655	2	2.007	1.849	27.706	0.011	0.0	2	39.3	2	2.73	2	143.2	2	-9	9	-9	9	112.22	2	-9	9	-9	9	7.5273	2	-9	9	0.00	-9	-9	-9	-9
109	2	2499.5	34.662	2	34.662	2	1.862	1.684	27.725	0.010	0.0	2	38.9	2	2.68	2	143.2	2	-9	9	-9	9	122.07	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
108	2	2749.2	34.668	2	34.669	2	1.766	1.567	27.739	0.009	0.0	2	38.7	2	2.66	2	145.2	2	-9	9	-9	9	125.75	2	-9	9	-9	9	7.5523	2	-9	9	0.00	-9	-9	-9	-9
107	2	2999.5	34.672	2	34.672	2	1.703	1.482	27.749	0.009	0.0	2	38.0	2	2.62	2	145.8	2	-9	9	-9	9	132.95	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
106	2	3248.8	34.678	2	34.678	2	1.607	1.364	27.761	0.008	0.0	2	37.2	2	2.58	2	147.7	2	-9	9	-9	9	139.90	2	-9	9	-9	9	7.5725	2	-9	9	0.10	-9	-9	-9	-9
105	2	3499.9	34.684	2	34.684	2	1.534	1.267	27.773	0.007	0.0	2	36.9	2	2.55	2	149.7	2	-9	9	-9	9	146.67	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
104	2	3748.6	34.690	2	34.690	2	1.453	1.162	27.785	0.007	0.0	2	36.6	2	2.50	2	148.2	2	-9	9	-9	9	151.49	2	-9	9	-9	9	-9	9	-9	9	0.20	-9	-9	-9	-9
103	2	4000.3	34.690	2	34.693	2	1.472	1.153	27.786	0.007	0.0	2	36.6	2	2.49	2	146.9	2	-9	9	-9	9	155.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	4001.6	34.690	2	34.690	2	1.471	1.153	27.786	0.007	0.0	2	36.6	2	2.50	2	145.5	2	-9	9	-9	9	156.40	2	-9	9	-9	9	-9	9	-9	9	0.10	-9	-9	-9	-9
101	2	4118.0	34.690	2	34.690	2	1.485	1.153	27.786	0.008	0.0	2	36.6	2	2.51	2	144.9	2	-9	9	-9	9	157.51	2	-9	9	-9	9	-9	9	-9	9	0.20	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 143 DATE 4/14/94 LATITUDE 0°41.0'S Btm Depth: 3807
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.2	35.171	2	35.174	2	25.095	25.092	23.442	0.118	0.2	2	6.2	2	0.67	2	4.3	2	1.808	2	0.997	2	194.56	6	386	2	2044.9	2	7.9824	2	2308	6	-9	-9	-9	-9	-9
135	2	24.5	35.263	2	35.253	2	23.472	23.467	23.998	0.111	0.4	2	7.3	2	0.79	2	4.7	2	1.762	6	0.921	6	174.56	6	-9	9	-9	9	7.9499	2	-9	9	-9	-9	-9	-9	-9
134	2	48.3	35.403	2	35.409	2	18.005	17.997	25.581	0.122	0.4	2	14.4	2	1.24	2	8.3	2	1.380	2	0.709	2	109.43	2	611	2	2142.0	2	7.8168	2	2321	2	-9	-9	-9	-9	-9
133	2	74.0	35.121	2	35.131	2	15.056	15.044	26.055	0.062	0.0	2	17.9	2	1.35	2	12.8	2	1.024	2	0.531	2	109.18	2	-9	9	-9	9	7.7677	2	-9	9	-9	-9	-9	-9	-9
132	2	100.5	35.033	2	35.037	2	14.141	14.126	26.186	0.044	0.0	2	20.5	2	1.51	2	15.4	2	0.889	2	0.452	4	97.44	2	768	2	2164.2	2	7.7264	2	2307	2	-9	-9	-9	-9	-9
131	2	124.1	34.933	2	34.932	2	13.366	13.349	26.270	0.031	0.0	2	20.8	2	1.53	2	17.8	2	0.832	6	0.431	6	104.41	2	-9	9	-9	9	7.7204	2	-9	9	-9	-9	-9	-9	-9
130	2	149.4	34.892	2	34.892	2	13.084	13.063	26.297	0.027	0.0	2	21.9	2	1.58	2	19.0	2	0.800	2	0.399	2	100.50	2	-9	9	2168.0	2	7.7060	2	2300	2	-9	-9	-9	-9	-9
129	2	169.1	34.894	2	34.893	2	13.000	12.977	26.315	0.025	0.0	2	22.9	2	1.66	2	19.6	2	0.762	2	0.385	2	91.32	2	-9	9	-9	9	7.6848	2	-9	9	-9	-9	-9	-9	-9
128	2	198.2	34.893	2	34.893	2	12.928	12.900	26.330	0.026	0.0	2	23.8	2	1.71	2	20.3	2	0.693	2	0.363	2	83.36	2	900	2	2182.4	2	7.6653	2	2306	2	-9	-9	-9	-9	-9
127	2	248.3	34.892	2	34.890	2	12.773	12.739	26.361	0.029	0.0	2	26.3	2	1.83	2	21.4	2	0.605	6	0.320	2	66.82	2	-9	9	2196.2	2	7.6293	2	2298	2	-9	-9	-9	-9	-9
126	2	297.1	34.872	2	34.870	2	12.358	12.318	26.428	0.029	0.0	2	31.2	2	2.15	2	24.9	2	0.421	2	0.202	2	28.74	2	1265	2	2228.2	2	7.5318	2	2293	2	-9	-9	-9	-9	-9
125	2	348.1	34.823	2	34.822	2	11.463	11.419	26.561	0.031	0.0	2	33.5	2	2.32	2	28.1	2	0.214	2	0.114	2	18.08	2	-9	9	-9	9	7.4801	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	402.5	34.736	2	34.739	2	10.041	9.994	26.747	0.032	0.0	2	33.7	2	2.28	2	29.6	2	0.169	2	0.073	2	47.00	2	1337	2	2238.0	2	7.5125	2	2294	2	-9	-9	-9	-9	-9
122	2	500.5	34.642	2	34.641	2	8.397	8.344	26.940	0.030	0.0	2	39.6	2	2.65	2	41.0	2	0.032	2	0.013	2	29.38	2	1636	2	2267.3	2	7.4323	2	2303	2	-9	-9	-9	-9	-9
121	2	599.1	34.590	2	34.589	2	7.282	7.223	27.065	0.024	0.0	2	40.4	2	2.69	2	46.9	2	0.021	2	0.006	2	50.08	2	1558	2	2267.9	2	7.4519	2	2306	2	-9	-9	-9	-9	-9
120	2	700.0	34.561	2	34.561	2	6.402	6.338	27.162	0.023	0.0	2	40.7	2	2.73	2	54.9	2	0.007	2	-0.002	2	61.96	2	1544	2	2273.0	2	7.4599	2	2316	2	-9	-9	-9	-9	-9
119	2	798.7	34.547	2	34.548	2	5.450	5.381	27.271	0.022	0.0	2	40.6	2	2.76	2	68.5	2	0.001	2	-0.002	2	72.26	2	1521	6	2284.4	2	7.4655	2	2332	2	-9	-9	-9	-9	-9
118	2	898.4	34.546	2	34.545	2	5.107	5.032	27.311	0.021	0.0	2	40.7	2	2.73	2	74.1	2	0.004	2	-0.002	2	79.08	2	1489	2	2287.2	2	7.4763	2	2342	2	-9	-9	-9	-9	-9
117	2	999.6	34.554	2	34.553	2	4.604	4.524	27.375	0.019	0.0	2	40.7	2	2.86	2	84.3	2	0.006	2	-0.002	2	78.59	2	1526	2	2297.7	2	7.4701	2	2350	2	-9	-9	-9	-9	-9
116	2	1099.8	34.563	2	34.562	2	4.166	4.081	27.430	0.019	0.0	2	41.1	2	2.87	2	92.6	2	-9	9	-9	9	81.86	2	-9	9	-9	9	7.4739	2	-9	9	-9	-9	-9	-9	-9
115	2	1199.1	34.569	2	34.568	2	3.961	3.868	27.457	0.017	0.0	2	40.9	2	2.88	2	97.0	2	-0.003	2	-0.002	2	83.45	2	-9	9	-9	9	7.4757	2	-9	9	-9	-9	-9	-9	-9
114	2	1500.7	34.598	2	34.599	2	3.107	2.998	27.565	0.015	0.0	2	40.9	2	2.87	2	116.3	2	-9	9	-9	9	91.65	2	-9	9	-9	9	7.4872	2	-9	9	-9	-9	-9	-9	-9
113	2	1598.9	34.606	2	34.606	2	2.929	2.813	27.587	0.015	0.0	2	40.3	2	2.85	2	121.1	2	0.003	2	-0.002	2	95.10	2	-9	9	-9	9	7.4927	2	-9	9	-9	-9	-9	-9	-9
112	2	1785.4	34.629	2	34.629	2	2.512	2.386	27.643	0.013	0.0	2	40.3	2	2.81	2	136.0	2	-9	9	-9	9	97.21	2	-9	9	-9	9	7.4989	2	-9	9	-9	-9	-9	-9	-9
111	2	2001.2	34.643	2	34.643	2	2.257	2.116	27.676	0.011	0.0	2	39.8	2	2.79	2	143.4	2	-9	1	-9	1	103.31	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	3	2243.1	34.652	2	-9	5	2.051	1.893	27.702	0.010	-9	1	-9	1	-9	1	-9	1	-0.001	2	-0.002	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2492.4	34.658	2	34.658	2	1.938	1.760	27.717	0.011	0.0	2	39.1	2	2.70	2	146.8	2	-9	9	-9	9	117.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2745.8	34.668	2	34.669	2	1.766	1.567	27.739	0.008	0.0	2	38.4	2	2.58	2	146.4	2	-9	9	-9	9	127.82	2	-9	9	-9	9	7.5529	2	-9	9	-9	-9	-9	-9	-9
107	2	3000.2	34.673	2	34.674	2	1.721	1.500	27.748	0.010	0.0	2	38.3	2	2.60	2	147.1	2	-0.003	2	-0.002	2	132.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3247.8	34.678	2	34.678	2	1.618	1.375	27.761	0.007	0.0	2	38.0	2	2.56	2	146.0	2	-9	9	-9	9	139.39	2	-9	9	-9	9	7.5725	2	-9	9	-9	-9	-9	-9	-9
105	2	3499.0	34.683	2	34.683	2	1.550	1.283	27.771	0.008	0.0	2	38.2	2	2.53	2	146.4	2	-0.001	2	-0.002	2	145.13	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3629.6	34.688	2	34.688	2	1.483	1.204	27.781	0.007	0.0	2	37.6	2	2.52	2	146.8	2	-9	9	-9	9	151.68	2	-9	9	-9	9	7.5958	2	-9	9	-9	-9	-9	-9	-9
103	2	3630.4	34.688	2	34.689	2	1.482	1.203	27.781	0.007	0.0	2	37.1	2	2.51	2	149.2	2	-0.002	2	-0.002	2	151.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3747.3	34.689	2	34.689	2	1.464	1.173	27.784	0.007	0.0	2	36.7	2	2.49	2	150.5	2	-9	9	-9	9	154.56	2	-9	9	-9	9	7.6020	2	-9	9	-9	-9	-9	-9	-9
101	2	3860.7	34.690	2	34.690	2	1.464	1.161	27.785	0.010	0.0	2	36.8	2	2.43	2	149.0	2	-9	9	-9	9	156.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 144 DATE 4/14/94 LATITUDE 0°20.1'S Btm Depth: 3810
CAST 1 LONGITUDE 110°19.6'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	35.169	2	35.173	2	24.418	24.417	23.645	0.108	0.3	2	5.2	2	0.67	2	4.1	2	1.792	2	0.971	2	188.09	6	396	2	2049.8	2	7.9743	2	2310	6	-9	-9	-9	-9	-9
135	2	26.7	35.234	2	35.231	2	22.460	22.455	24.267	0.123	0.5	2	7.5	2	0.79	2	5.0	2	1.721	2	0.919	2	163.18	6	-9	9	-9	9	7.9422	2	-9	9	-9	-9	-9	-9	-9
134	2	48.8	35.292	2	35.292	2	18.341	18.332	25.413	0.117	0.3	2	11.9	2	0.98	2	7.6	2	1.416	2	0.744	2	127.86	2	530	2	2108.9	2	7.8671	2	2314	2	-9	-9	-9	-9	-9
133	2	75.5	35.249	2	35.232	2	16.570	16.558	25.810	0.078	0.1	2	15.3	2	1.19	2	9.6	2	1.192	2	0.616	2	117.60	2	-9	9	-9	9	7.8085	2	-9	9	-9	-9	-9	-9	-9
132	2	101.9	35.000	2	34.998	2	14.340	14.325	26.118	0.039	0.0	2	17.2	2	1.29	2	14.1	2	1.052	2	0.552	2	124.81	2	669	2	2141.8	2	7.7812	2	2304	2	-9	-9	-9	-9	-9
131	2	121.8	34.989	2	34.989	2	14.069	14.051	26.168	0.034	0.0	2	16.8	2	1.35	2	14.7	2	0.959	2	0.508	2	118.67	2	-9	9	-9	9	7.7638	2	-9	9	-9	-9	-9	-9	-9
130	2	149.5	34.938	2	34.937	2	13.540	13.519	26.239	0.029	0.0	2	20.0	2	1.47	2	16.5	2	-9	9	-9	9	110.32	2	-9	9	2158.8	2	7.7346	2	2299	2	-9	-9	-9	-9	-9
129	2	173.8	34.894	2	34.894	2	13.198	13.174	26.276	0.029	0.0	2	21.2	2	1.55	2	18.0	2	0.853	2	0.438	2	104.84	2	-9	9	-9	9	7.7150	2	-9	9	-9	-9	-9	-9	-9
128	2	201.2	34.884	2	34.883	2	13.040	13.012	26.300	0.024	0.0	2	22.7	2	1.64	2	19.4	2	-9	9	-9	9	90.03	2	858	2	2175.6	2	7.6824	2	2297	2	-9	-9	-9	-9	-9
127	2	225.6	34.889	2	34.889	2	12.901	12.870	26.333	0.030	0.0	2	24.0	2	1.74	2	20.5	2	0.668	2	0.347	2	77.29	2	-9	9	-9	9	7.6530	2	-9	9	-9	-9	-9	-9	-9
126	2	250.4	34.889	2	34.891	2	12.809	12.775	26.352	0.033	0.0	2	25.4	2	1.81	2	21.1	2	-9	9	-9	9	67.96	2	-9	9	2194.7	2	7.6316	2	2298	2	-9	-9	-9	-9	-9
125	2	299.6	34.865	2	34.863	2	12.269	12.230	26.440	0.031	0.0	2	31.2	2	2.22	2	25.5	2	0.324	2	0.191	2	21.02	2	1329	2	2234.4	2	7.5121	2	2293	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	349.7	34.792	2	34.789	2	10.951	10.908	26.630	0.032	0.0	2	32.1	2	2.31	2	28.5	2	0.190	2	0.105	2	27.70	2	-9	9	-9	9	7.4866	2	-9	9	-9	-9	-9	-9	-9
122	2	398.2	34.700	2	34.697	2	9.468	9.423	26.814	0.030	0.0	2	35.2	2	2.43	2	33.3	2	0.099	2	0.051	2	35.59	2	1478	2	2253.0	2	7.4719	2	2296	2	-9	-9	-9	-9	-9
121	2	497.7	34.629	2	34.630	2	8.143	8.092	26.969	0.027	0.0	2	38.3	2	2.64	2	41.7	2	-9	9	-9	9	34.09	2	1608	2	2268.1	2	7.4373	2	2306	2	-9	-9	-9	-9	-9
120	2	601.2	34.588	2	34.586	2	7.257	7.199	27.066	0.025	0.0	2	38.5	2	2.68	2	48.0	2	-0.004	2	-0.002	2	51.21	2	1545	2	2271.1	2	7.4538	2	2313	2	-9	-9	-9	-9	-9
119	2	697.2	34.569	2	34.568	2	6.459	6.395	27.161	0.024	0.0	2	39.1	2	2.75	2	57.7	2	-9	9	-9	9	52.35	2	1593	2	2282.2	2	7.4396	2	2321	2	-9	-9	-9	-9	-9
118	2	799.0	34.548	2	34.549	2	5.577	5.508	27.257	0.022	0.0	2	38.9	2	2.73	2	67.5	2	-9	9	-9	9	69.59	2	1537	2	2285.1	2	7.4653	2	2333	2	-9	-9	-9	-9	-9
117	2	901.3	34.547	2	34.547	2	5.140	5.064	27.309	0.019	0.0	2	39.9	2	2.76	2	74.4	2	-9	9	-9	9	75.32	2	1514	2	2289.3	2	7.4683	2	2340	2	-9	-9	-9	-9	-9
116	2	1000.1	34.553	2	34.551	2	4.684	4.603	27.366	0.018	0.0	2	40.4	2	3.03	4	82.0	2	-9	9	-9	9	77.95	2	1522	2	2299.2	2	7.4665	2	2346	6	-9	-9	-9	-9	-9
115	2	1200.0	34.569	2	34.568	2	4.005	3.912	27.452	0.017	0.0	2	40.4	2	2.84	2	97.6	2	-9	9	-9	9	79.96	2	-9	9	-9	9	7.4693	2	-9	9	-9	-9	-9	-9	-9
114	2	1398.4	34.590	2	34.589	2	3.444	3.340	27.526	0.016	0.0	2	40.0	2	2.83	2	111.3	2	-9	9	-9	9	82.14	2	-9	9	-9	9	7.4710	2	-9	9	-9	-9	-9	-9	-9
113	2	1599.2	34.607	2	34.606	2	2.928	2.813	27.588	0.014	0.0	2	39.7	2	2.78	2	121.3	2	-9	9	-9	9	93.88	2	-9	9	-9	9	7.4895	2	-9	9	-9	-9	-9	-9	-9
112	2	1794.1	34.627	2	34.629	2	2.545	2.418	27.639	0.013	0.0	2	40.5	2	2.87	2	133.4	2	-9	9	-9	9	96.79	2	-9	9	-9	9	7.4969	2	-9	9	-9	-9	-9	-9	-9
111	2	1997.3	34.639	2	34.638	2	2.315	2.174	27.668	0.011	0.0	2	37.8	2	2.74	2	141.1	2	-9	9	-9	9	102.75	2	-9	9	-9	9	7.5085	2	-9	9	-9	-9	-9	-9	-9
110	2	2200.2	34.650	2	34.649	2	2.099	1.943	27.696	0.010	0.0	2	38.5	2	3.04	4	146.8	2	-9	9	-9	9	109.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2402.7	34.657	2	34.657	2	1.944	1.774	27.715	0.010	0.0	2	37.7	2	2.13	4	148.5	2	-9	9	-9	9	117.05	2	-9	9	-9	9	7.5315	2	-9	9	-9	-9	-9	-9	-9
108	2	2602.7	34.663	2	34.663	2	1.854	1.667	27.728	0.010	0.0	2	37.2	2	2.59	2	148.4	2	-9	9	-9	9	122.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2799.6	34.668	2	34.668	2	1.778	1.574	27.738	0.008	0.0	2	37.1	2	2.56	2	147.6	2	-9	9	-9	9	127.79	2	-9	9	-9	9	7.5527	2	-9	9	-9	-9	-9	-9	-9
106	2	2982.6	34.673	2	34.672	2	1.706	1.486	27.749	0.009	0.0	2	36.7	2	2.52	2	147.8	2	-9	9	-9	9	133.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3249.1	34.677	2	34.675	2	1.629	1.385	27.759	0.006	0.0	2	36.0	2	2.48	2	147.0	2	-9	9	-9	9	139.27	2	-9	9	-9	9	7.5692	2	-9	9	-9	-9	-9	-9	-9
104	2	3501.3	34.683	2	34.682	2	1.553	1.285	27.771	0.006	0.0	2	36.1	2	2.46	2	147.8	2	-9	9	-9	9	145.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3751.1	34.689	2	34.690	2	1.465	1.174	27.784	0.007	0.0	2	35.8	2	2.44	2	145.2	2	-9	9	-9	9	154.84	6	-9	9	-9	9	7.6034	2	-9	9	-9	-9	-9	-9	-9
102	2	3751.0	34.689	2	34.689	2	1.465	1.174	27.784	0.007	0.0	2	35.6	2	2.38	2	146.6	2	-9	9	-9	9	155.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3840.2	34.690	2	34.690	2	1.465	1.164	27.785	0.008	0.0	2	35.2	2	2.40	2	149.2	2	-9	9	-9	9	155.93	2	-9	9	-9	9	7.6014	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 145 DATE 4/13/94 LATITUDE 0°0.0'S Btm Depth: 3785
CAST 3 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.0	35.132	2	35.134	2	24.723	24.721	23.525	0.120	0.3	2	6.2	2	0.66	2	4.7	2	1.788	2	0.960	2	190.99	2	395	2	2047.8	2	7.9763	2	2305	2	1.10	-9	-9	0.171	0.057
335	2	26.1	35.120	2	35.128	2	23.985	23.980	23.739	0.133	0.3	2	6.7	2	0.68	2	4.9	2	1.758	2	0.948	2	183.21	2	398	2	2048.8	2	7.9676	2	2303	2	1.10	-9	-9	0.243	0.121
334	2	52.2	34.869	2	34.859	2	17.479	17.470	25.301	0.141	0.3	2	13.4	2	1.07	2	12.7	2	1.433	2	0.733	2	128.67	2	578	2	2103.5	2	7.8364	2	2290	2	0.70	-9	-9	0.514	0.383
333	2	76.1	34.920	2	34.911	2	15.856	15.844	25.721	0.073	0.1	2	14.7	2	1.13	2	14.4	2	1.350	2	0.691	2	126.04	2	611	2	2119.3	2	7.8144	2	2297	2	-9	58.2	6.6	0.335	0.286
332	2	101.6	34.946	2	34.952	2	14.707	14.692	25.997	0.054	0.0	2	16.1	2	1.23	2	14.8	2	1.188	2	0.616	2	128.31	2	650	2	2132.2	2	7.7944	2	2299	2	0.70	57.7	5.6	0.127	0.095
331	2	124.1	34.925	2	34.924	2	14.004	13.986	26.132	0.036	0.0	2	17.8	2	1.35	2	16.0	2	1.055	2	0.546	2	123.00	2	693	2	2142.0	2	7.7684	2	2313	2	-9	57.0	3.9	0.060	0.052
330	2	148.8	34.939	2	34.938	2	13.726	13.705	26.202	0.031	0.0	2	18.3	2	1.42	2	16.2	2	0.956	2	0.496	2	113.75	2	728	2	2151.0	2	7.7496	2	2299	2	0.50	-9	-9	0.028	0.036
329	2	171.7	34.903	2	34.903	2	13.402	13.378	26.241	0.032	0.0	2	19.9	2	1.51	2	18.0	2	0.883	2	0.458	2	107.15	2	772	2	2160.6	2	7.7257	2	2299	2	-9	-9	-9	0.020	0.031
328	3	195.2	34.884	2	34.883	2	13.135	13.108	26.281	0.031	0.0	2	22.4	2	1.63	2	19.6	2	0.784	2	0.401	2	92.08	2	855	2	2174.0	2	7.6871	2	2299	2	0.40	54.2	-9	0.014	0.028
327	2	224.6	34.888	2	34.888	2	12.843	12.813	26.344	0.031	0.0	2	25.0	2	1.79	2	20.8	2	0.642	2	0.331	2	72.37	2	963	2	2191.5	2	7.6414	2	2296	2	-9	-9	-9	-9	-9
326	3	248.8	34.888	2	34.887	2	12.728	12.695	26.367	0.031	0.0	2	26.9	2	1.95	2	22.4	2	0.556	2	0.281	2	52.66	2	1083	2	2205.8	2	7.5961	2	2298	2	-9	-9	-9	-9	-9
325	2	299.8	34.859	2	34.853	2	12.158	12.118	26.457	0.034	0.0	2	31.8	2	2.27	2	26.6	2	0.320	2	0.164	2	18.03	2	1389	2	2239.7	2	7.4965	2	2297	2	0.00	50.4	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	348.6	34.780	2	34.777	2	10.774	10.732	26.652	0.033	0.0	2	33.6	2	2.38	2	29.6	2	0.184	2	0.094	2	24.45	2	1466	2	2249.1	2	7.4755	2	2297	2	-9	46.0	-9	-9	-9
322	2	398.5	34.699	2	34.699	2	9.475	9.430	26.812	0.035	0.0	2	36.1	2	2.51	2	34.5	2	0.085	2	0.045	2	27.39	2	1558	2	2257.6	2	7.4530	2	2299	2	0.10	-9	-9	-9	-9
321	2	498.9	34.626	2	34.626	2	8.057	8.006	26.979	0.029	0.0	2	38.4	2	2.67	2	43.0	2	0.024	2	0.012	2	34.09	2	1630	2	2269.9	2	7.4328	2	2305	2	0.10	-9	-9	-9	-9
320	2	598.6	34.593	2	34.592	2	7.272	7.214	27.068	0.028	0.0	2	39.2	2	2.72	2	48.7	2	0.014	2	0.007	2	45.77	2	1606	2	2271.6	2	7.4431	2	2310	2	-9	-9	-9	-9	-9
319	2	700.4	34.568	2	34.568	2	6.503	6.438	27.154	0.025	0.0	2	40.3	2	2.82	2	57.0	2	0.006	2	0.003	2	52.07	2	1607	2	2279.9	2	7.4405	2	2322	2	-9	-9	-9	-9	-9
318	2	800.0	34.550	2	34.558	3	5.669	5.600	27.247	0.025	0.0	2	39.8	2	2.80	2	66.4	2	0.001	2	0.002	2	66.52	2	1550	2	2283.3	2	7.4575	2	2329	2	0.20	-9	-9	-9	-9
317	2	898.5	34.547	2	34.547	2	5.078	5.004	27.315	0.022	0.0	2	40.0	2	2.79	2	75.1	2	0.006	2	0.004	2	75.38	2	1521	2	2290.8	2	7.4674	2	2350	2	-9	-9	-9	-9	-9
316	2	998.2	34.551	2	34.551	2	4.786	4.705	27.353	0.023	0.0	2	40.4	2	2.84	2	79.4	2	0.002	2	0.002	2	77.28	2	1517	2	2297.8	2	7.4679	2	2354	2	-9	43.1	-9	-9	-9
315	2	1200.6	34.570	2	34.569	2	3.959	3.866	27.458	0.022	0.0	2	41.2	2	2.86	2	96.7	2	-0.003	2	-0.002	2	80.86	2	1530	2	2320.1	2	7.4690	2	2369	2	-9	-9	-9	-9	-9
314	2	1400.8	34.593	2	34.594	2	3.314	3.211	27.541	0.017	0.0	2	40.3	2	2.86	2	112.9	2	-9	9	-9	9	84.45	2	1513	2	2335.0	2	7.4746	2	2387	2	-9	-9	-9	-9	-9
313	2	1599.5	34.610	2	34.609	2	2.881	2.766	27.595	0.015	0.0	2	39.8	2	2.81	2	123.0	2	0.003	2	-0.002	2	92.42	2	1471	2	2342.6	2	7.4869	2	2400	2	-9	-9	-9	-9	-9
312	2	1801.9	34.628	2	34.627	2	2.537	2.410	27.640	0.014	0.0	2	39.4	2	2.78	2	132.8	2	-9	9	-9	9	96.56	2	1441	2	2351.8	2	7.4961	2	2411	2	-9	-9	-9	-9	-9
311	2	1999.6	34.642	2	34.641	2	2.251	2.111	27.676	0.012	0.0	2	39.6	2	2.75	2	137.9	2	0.017	4	-0.002	2	104.92	2	1403	2	2353.6	2	7.5105	2	2416	2	-9	39.5	-9	-9	-9
310	2	2200.5	34.649	2	34.649	2	2.117	1.962	27.693	0.011	0.0	2	38.9	2	2.72	2	139.6	2	-9	9	-9	9	108.92	2	1372	2	2352.5	2	7.5193	2	2418	2	-9	-9	-9	-9	-9
309	2	2400.4	34.656	2	34.655	2	1.975	1.804	27.711	0.010	0.0	2	38.1	2	2.66	2	142.8	2	-0.002	2	-0.002	2	115.74	2	1337	2	2351.9	2	7.5305	2	2422	2	-9	-9	-9	-9	-9
308	2	2600.0	34.663	2	34.663	2	1.864	1.677	27.727	0.010	0.0	2	37.5	2	2.65	2	146.4	2	-9	9	-9	9	121.32	2	1300	2	2350.5	2	7.5404	2	2421	2	-9	-9	-9	-9	-9
307	2	2798.7	34.668	2	34.667	2	1.778	1.575	27.739	0.010	0.0	2	37.9	2	2.62	2	145.7	2	0.000	2	-0.002	2	127.81	2	1264	2	2347.7	2	7.5521	2	2433	2	-9	-9	-9	-9	-9
306	2	2999.8	34.674	2	34.673	2	1.698	1.477	27.750	0.008	0.0	2	37.6	2	2.59	2	145.9	2	-9	9	-9	9	133.34	2	1238	2	2344.5	2	7.5625	2	2432	2	-9	38.6	-9	-9	-9
305	2	3198.1	34.677	2	34.676	2	1.619	1.380	27.760	0.007	0.0	2	37.0	2	2.54	2	146.4	2	0.000	2	-0.002	2	139.18	2	1217	2	2340.9	2	7.5695	2	2419	3	-9	-9	-9	-9	-9
304	2	3398.7	34.682	2	34.682	2	1.550	1.293	27.770	0.009	0.0	2	36.8	2	2.50	2	149.1	2	-9	9	-9	9	144.57	2	1172	2	2339.2	2	7.5821	2	2423	2	-9	-9	-9	-9	-9
303	2	3600.0	34.687	2	34.688	2	1.505	1.229	27.778	0.009	0.0	2	37.0	2	2.50	2	150.6	2	0.011	2	-0.002	2	147.41	2	1143	2	-9	9	7.5925	2	2432	2	-9	-9	-9	-9	-9
302	2	3598.7	34.687	2	34.686	2	1.504	1.228	27.778	0.009	0.0	2	37.1	2	2.50	2	149.9	2	-9	9	-9	9	148.49	2	1151	2	2339.6	2	7.5905	2	2431	2	-9	-9	-9	-9	-9
301	2	3836.1	34.690	2	34.690	2	1.464	1.163	27.785	0.010	0.0	2	36.1	2	2.44	2	147.2	2	0.001	2	-0.002	2	156.01	2	1116	2	2332.2	3	7.6012	2	2391	2	-9	39.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 146 DATE 4/14/94 LATITUDE 0°20.1'N Btm Depth: 3850
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.3	35.067	2	35.067	2	24.634	24.632	23.503	0.137	0.3	2	5.8	2	0.66	4	5.4	2	1.798	2	0.958	2	184.97	6	391	2	2044.8	2	7.9729	2	2305	6	-9	-9	-9	-9	-9
135	2	24.8	35.056	2	35.059	2	24.199	24.193	23.626	0.152	0.3	2	6.0	2	0.66	4	5.4	2	1.775	2	0.940	2	180.08	6	-9	9	-9	9	7.9702	2	-9	9	-9	-9	-9	-9	-9
134	2	49.3	34.760	2	34.770	2	20.040	20.031	24.571	0.147	0.4	2	11.6	2	1.04	4	9.4	2	1.478	2	0.795	2	134.44	6	526	2	2084.4	2	7.8634	2	-9	5	-9	-9	-9	-9	-9
133	2	73.6	34.756	2	34.758	2	14.642	14.631	25.864	0.054	0.1	2	17.4	2	1.35	4	18.3	2	1.239	2	0.636	2	112.44	6	-9	9	-9	9	7.7646	2	-9	9	-9	-9	-9	-9	-9
132	2	97.6	34.808	2	34.810	2	13.990	13.976	26.044	0.046	0.0	2	18.6	2	1.45	4	19.1	2	-9	9	-9	9	107.10	6	729	2	2148.7	2	7.7413	2	2295	2	-9	-9	-9	-9	-9
131	2	123.6	34.895	2	34.895	2	13.688	13.670	26.175	0.036	0.0	2	18.3	2	1.43	4	17.9	2	0.987	2	0.515	2	113.07	2	-9	9	-9	9	7.7491	2	-9	9	-9	-9	-9	-9	-9
130	2	151.9	34.885	2	34.885	2	13.413	13.392	26.225	0.031	0.0	2	20.0	2	1.52	4	18.9	2	-9	9	-9	9	103.51	6	763	2	2159.8	2	7.7235	2	2296	2	-9	-9	-9	-9	-9
129	2	171.8	34.883	2	34.882	2	13.200	13.177	26.266	-9	0.0	2	22.2	2	1.64	4	19.8	2	0.807	2	0.420	2	88.56	2	-9	9	-9	9	7.6901	2	-9	9	-9	-9	-9	-9	-9
128	2	197.7	34.884	2	34.884	2	12.962	12.935	26.316	-9	0.0	2	24.7	2	1.81	4	21.1	2	-9	9	-9	9	70.91	6	941	2	2189.4	2	7.6440	2	2298	2	-9	-9	-9	-9	-9
127	2	249.0	34.883	2	34.882	2	12.621	12.587	26.385	-9	0.0	2	29.1	2	2.11	4	23.6	2	0.497	2	0.253	2	36.13	2	1168	2	2219.9	2	7.5599	2	2298	2	-9	-9	-9	-9	-9
126	2	299.7	34.855	2	34.854	2	12.125	12.086	26.460	0.034	0.0	2	32.1	2	2.30	4	26.4	2	-9	9	-9	9	18.98	6	1362	2	2237.8	2	7.5000	2	2294	2	-9	-9	-9	-9	-9
125	2	350.5	34.796	2	34.796	2	11.033	10.989	26.619	0.034	0.0	2	32.9	2	2.36	4	29.2	2	0.197	2	0.104	2	22.38	2	-9	9	-9	9	7.4818	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.1	34.708	2	34.713	2	9.690	9.644	26.784	0.033	0.0	2	34.5	2	2.42	4	33.4	2	0.122	2	0.063	2	34.71	2	1442	2	2246.7	2	7.4749	2	2307	2	-9	-9	-9	-9	-9
122	2	498.5	34.626	2	34.625	2	8.052	8.000	26.980	0.027	0.0	2	39.4	2	2.71	4	43.2	2	-9	9	-9	9	32.24	2	1637	2	2269.9	2	7.4320	2	2312	2	-9	-9	-9	-9	-9
121	2	599.5	34.593	2	34.592	2	7.203	7.144	27.078	0.025	0.0	2	40.4	2	2.78	4	50.3	2	0.017	2	0.006	2	40.15	2	1631	2	2274.6	2	7.4322	2	2311	2	-9	-9	-9	-9	-9
120	2	696.8	34.560	2	34.560	2	6.187	6.125	27.189	0.025	0.0	2	40.8	2	2.83	4	58.0	2	-9	9	-9	9	56.15	2	1587	2	2278.2	2	7.4494	2	2325	2	-9	-9	-9	-9	-9
119	2	796.9	34.550	2	34.550	2	5.336	5.269	27.287	0.023	0.0	2	40.8	2	2.83	4	68.8	2	0.010	2	0.000	2	67.71	2	1548	2	2287.6	2	7.4594	2	2330	2	-9	-9	-9	-9	-9
118	2	901.2	34.550	2	34.551	2	4.983	4.909	27.329	0.021	0.0	2	40.0	2	2.84	4	76.8	2	-9	9	-9	9	73.77	2	1532	2	2291.3	2	7.4649	2	2338	2	-9	-9	-9	-9	-9
117	2	999.8	34.554	2	34.554	2	4.592	4.511	27.377	0.020	0.0	2	41.3	2	2.86	2	84.7	2	0.000	2	0.001	2	78.88	2	1517	2	2299.0	2	7.4702	2	2343	2	-9	-9	-9	-9	-9
116	2	1097.5	34.564	2	34.564	2	4.243	4.157	27.423	0.019	0.0	2	41.7	2	2.88	2	93.1	2	-9	9	-9	9	78.00	2	-9	9	-9	9	7.4657	2	-9	9	-9	-9	-9	-9	-9
115	2	1199.9	34.571	2	-9	9	3.946	3.853	27.460	0.019	0.0	2	42.6	2	2.96	2	101.7	2	-9	9	-9	9	79.56	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1290.1	34.583	2	-9	9	3.623	3.527	27.502	0.018	0.0	2	42.8	2	2.97	2	109.8	2	-9	9	-9	9	78.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1398.8	34.594	2	-9	9	3.297	3.194	27.543	0.017	0.0	2	43.1	2	2.96	2	118.9	2	-9	9	-9	9	83.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1599.9	34.611	2	34.610	2	2.865	2.750	27.597	0.015	0.0	2	41.1	2	2.84	2	124.7	2	-9	9	-9	9	92.01	2	-9	9	-9	9	7.4889	2	-9	9	-9	-9	-9	-9	-9
111	2	1794.6	34.627	2	34.627	2	2.556	2.428	27.637	0.015	0.0	2	41.0	2	2.81	2	133.6	2	-9	9	-9	9	96.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2000.1	34.641	2	34.640	2	2.258	2.118	27.674	0.013	0.0	2	40.3	2	2.77	2	140.1	2	-9	9	-9	9	105.14	2	-9	9	-9	9	7.5102	2	-9	9	-9	-9	-9	-9	-9
109	2	2247.6	34.651	2	34.651	2	2.078	1.919	27.698	0.012	0.0	2	39.9	2	2.72	2	144.5	2	-9	9	-9	9	110.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2498.7	34.660	2	34.660	2	1.911	1.733	27.720	0.010	0.0	2	39.8	2	2.67	2	147.2	2	-9	9	-9	9	118.58	2	-9	9	-9	9	7.5353	2	-9	9	-9	-9	-9	-9	-9
107	2	2747.7	34.668	2	34.667	2	1.795	1.596	27.737	0.009	0.0	2	39.0	2	2.64	2	149.2	2	-9	9	-9	9	124.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2999.6	34.673	2	34.672	2	1.694	1.473	27.750	0.009	0.0	2	38.7	2	2.59	2	148.7	2	-9	9	-9	9	131.59	2	-9	9	-9	9	7.5608	2	-9	9	-9	-9	-9	-9	-9
105	2	3248.7	34.677	2	34.677	2	1.614	1.370	27.761	0.007	0.0	2	38.3	2	2.56	2	148.1	2	-9	9	-9	9	138.38	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3499.3	34.684	2	34.683	2	1.541	1.274	27.773	0.006	0.0	2	38.0	2	2.51	2	150.5	2	-9	9	-9	9	142.26	2	-9	9	-9	9	7.5851	2	-9	9	-9	-9	-9	-9	-9
103	2	3748.8	34.690	2	34.691	2	1.460	1.169	27.785	0.010	0.0	2	37.3	2	2.46	2	149.1	2	-9	9	-9	9	153.54	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3748.8	34.690	2	34.689	2	1.460	1.169	27.785	0.010	0.0	2	37.5	2	2.46	2	148.6	2	-9	9	-9	9	154.84	2	-9	9	-9	9	7.6019	2	-9	9	-9	-9	-9	-9	-9
101	2	3887.3	34.690	2	34.690	2	1.471	1.165	27.785	0.010	0.0	2	37.4	2	2.46	2	149.1	2	-9	9	-9	9	155.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 147 DATE 4/14/94 LATITUDE 0°39.9'N Btm Depth: 3850
CAST 1 LONGITUDE 110°20.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	35.029	2	35.036	2	24.725	24.723	23.447	-9	0.3	2	5.9	2	0.67	2	4.5	2	1.780	2	0.961	2	191.99	6	-9	9	2043.2	2	7.9717	2	2298	6	-9	-9	-9	-9	-9
135	2	9.7	35.028	2	35.033	2	24.728	24.726	23.446	-9	0.3	2	5.9	2	0.68	2	4.8	2	1.773	2	0.956	2	192.20	2	397	2	-9	9	7.9730	2	-9	9	-9	74.5	5.1	-9	-9
134	2	24.0	35.011	2	35.017	2	24.352	24.347	23.546	-9	0.3	2	6.2	2	0.69	2	5.1	2	1.762	2	0.939	2	187.23	6	-9	9	2044.1	2	7.9692	2	2305	2	-9	76.1	5.9	-9	-9
133	2	47.5	34.768	2	34.769	2	16.825	16.817	25.379	-9	0.5	2	16.6	2	1.37	2	14.6	2	1.270	6	0.656	6	102.69	2	703	2	-9	9	7.7638	2	-9	9	-9	60.9	4.0	-9	-9
132	2	74.5	34.833	2	34.831	2	14.937	14.926	25.860	-9	0.4	2	20.5	2	1.62	2	17.5	2	-9	9	-9	9	80.74	2	-9	9	2161.6	2	7.6971	2	2290	2	-9	54.1	3.9	-9	-9
131	2	99.5	34.837	2	34.840	2	14.216	14.202	26.019	-9	0.1	2	21.4	2	1.66	2	18.9	2	0.950	2	0.489	2	80.76	2	849	2	-9	9	7.6837	2	-9	9	-9	47.6	4.0	-9	-9
130	2	123.5	34.836	2	34.836	2	13.557	13.540	26.156	-9	0.0	2	21.9	2	1.70	2	20.2	2	-9	9	-9	9	83.51	2	865	2	2173.1	2	7.6793	2	2291	2	-9	43.1	3.0	-9	-9
129	2	148.5	34.857	2	34.857	2	13.289	13.268	26.228	-9	0.0	2	22.9	2	1.73	2	20.6	2	0.796	6	0.413	6	81.05	2	-9	9	-9	9	7.6694	2	-9	9	-9	-9	-9	-9	-9
128	3	201.1	34.889	2	34.887	2	12.783	12.756	26.356	-9	0.0	2	25.4	2	1.87	2	21.8	2	-9	9	-9	9	65.99	2	993	2	2196.5	2	-9	9	2300	2	-9	-9	-9	-9	-9
127	2	251.5	34.881	2	34.884	2	12.600	12.566	26.387	-9	0.0	2	28.4	2	2.07	2	23.8	2	0.514	2	0.268	2	43.09	2	1139	2	2215.1	2	-9	9	2296	2	-9	-9	-9	-9	-9
126	2	299.5	34.846	2	34.844	2	12.032	11.993	26.471	-9	0.0	2	32.0	2	2.33	2	27.9	2	-9	9	-9	9	17.70	2	1387	2	2239.9	2	7.4944	2	2294	2	-9	43.4	-9	-9	-9
125	2	348.3	34.799	2	34.798	2	11.146	11.103	26.600	-9	0.0	2	33.5	2	2.41	2	30.6	2	0.199	2	0.111	2	16.04	2	1482	2	-9	9	7.4677	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.9	34.714	2	34.714	2	9.764	9.718	26.777	-9	0.0	2	36.7	2	2.53	2	35.3	2	0.099	2	0.052	2	24.22	6	1554	2	2257.9	2	-9	1	2296	2	-9	40.9	-9	-9	-9
122	2	499.5	34.627	2	34.627	2	8.111	8.060	26.972	-9	0.0	2	39.7	2	2.73	2	43.9	2	-9	9	-9	9	33.35	2	1619	2	2270.0	2	7.4349	2	2301	2	-9	44.7	-9	-9	-9
121	2	598.0	34.596	2	34.595	2	7.322	7.264	27.064	-9	0.0	2	41.0	2	2.81	2	50.3	2	0.014	2	0.004	2	40.22	2	1640	2	2275.8	2	7.4323	2	2311	2	-9	-9	-9	-9	-9
120	2	698.7	34.564	2	34.563	2	6.225	6.162	27.188	-9	0.0	2	42.3	2	2.89	2	62.5	2	-9	9	-9	9	49.14	2	1647	2	2288.1	2	7.4323	2	2334	2	-9	-9	-9	-9	-9
119	2	797.0	34.550	2	34.551	2	5.423	5.355	27.277	-9	0.0	2	41.0	2	2.82	2	71.4	2	0.000	2	-0.002	2	68.27	2	1561	2	2288.5	2	7.4573	2	2342	2	-9	42.9	-9	-9	-9
118	2	898.4	34.549	2	34.550	2	4.979	4.904	27.329	-9	0.0	2	40.9	2	2.80	2	78.6	2	-9	9	-9	9	74.29	2	1534	2	2294.6	2	7.4660	2	2355	3	-9	-9	-9	-9	-9
117	2	1000.6	34.554	2	34.554	2	4.561	4.481	27.380	-9	0.0	2	40.8	2	2.80	2	86.5	2	0.001	2	0.000	2	79.49	2	1519	2	2301.8	2	7.4701	2	2351	6	-9	39.3	-9	-9	-9
116	2	1099.5	34.564	2	34.564	2	4.217	4.131	27.426	-9	0.0	2	41.4	2	2.84	2	95.2	2	-9	9	-9	9	77.77	2	-9	9	-9	9	7.4650	2	-9	9	-9	-9	-9	-9	-9
115	2	1198.8	34.571	2	34.571	2	3.931	3.839	27.461	-9	0.0	2	41.1	2	2.85	2	101.1	2	-9	9	-9	9	81.51	2	-9	9	-9	9	7.4706	2	-9	9	-9	-9	-9	-9	-9
114	2	1300.1	34.582	2	34.582	2	3.640	3.542	27.500	-9	0.0	2	41.6	2	2.87	2	109.0	2	-9	9	-9	9	79.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1401.1	34.592	2	34.593	2	3.367	3.264	27.535	-9	0.0	2	41.4	2	2.87	2	115.8	2	-9	9	-9	9	82.19	2	-9	9	-9	9	7.4702	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.2	34.609	2	34.609	2	2.904	2.789	27.592	-9	0.0	2	40.9	2	2.82	2	125.4	2	-9	9	-9	9	93.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1800.8	34.629	2	34.628	2	2.515	2.387	27.643	-9	0.0	2	40.5	2	2.79	2	136.2	2	-9	9	-9	9	97.44	2	-9	9	-9	9	7.4973	2	-9	9	-9	-9	-9	-9	-9
110	2	2002.5	34.643	2	34.644	2	2.199	2.059	27.681	-9	0.0	2	39.9	2	2.73	2	143.1	2	-9	9	-9	9	106.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2245.9	34.654	2	34.654	2	2.013	1.855	27.705	-9	0.0	2	38.7	2	2.65	2	149.0	2	-9	9	-9	9	113.06	2	-9	9	-9	9	7.5267	2	-9	9	-9	-9	-9	-9	-9
108	2	2498.7	34.662	2	34.662	2	1.870	1.692	27.725	-9	0.0	2	39.7	2	2.68	2	146.7	2	-9	9	-9	9	120.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2748.9	34.669	2	34.670	2	1.775	1.576	27.739	-9	0.0	2	38.7	2	2.60	2	150.8	2	-9	9	-9	9	126.91	2	-9	9	-9	9	7.5532	2	-9	9	-9	-9	-9	-9	-9
106	2	3000.2	34.672	2	34.672	2	1.697	1.475	27.749	-9	0.0	2	38.5	2	2.58	2	149.8	2	-9	9	-9	9	131.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3250.9	34.678	2	34.678	2	1.614	1.370	27.761	-9	0.0	2	38.1	2	2.54	2	150.1	2	-9	9	-9	9	138.73	2	-9	9	-9	9	7.5692	2	-9	9	-9	-9	-9	-9	-9
104	2	3500.2	34.686	2	34.686	2	1.513	1.247	27.776	-9	0.0	2	37.9	2	2.49	2	153.0	2	-9	9	-9	9	145.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3752.1	34.689	2	34.691	2	1.470	1.179	27.783	-9	0.0	2	37.5	2	2.47	2	152.2	2	-9	9	-9	9	150.64	2	-9	9	-9	9	7.5999	2	-9	9	-9	-9	-9	-9	-9
102	2	3751.1	34.689	2	34.689	2	1.470	1.179	27.783	-9	0.0	2	37.7	2	2.46	2	152.1	2	-9	9	-9	9	151.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3886.1	34.690	2	34.689	2	1.472	1.166	27.785	-9	0.0	2	37.3	2	2.45	2	150.8	2	-9	9	-9	9	154.16	2	-9	9	-9	9	7.5999	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 148 DATE 4/14/94 LATITUDE 1°0.0'N Btm Depth: 3675
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	7.6	34.902	2	34.904	2	25.256	25.255	23.190	0.092	0.2	2	5.8	2	0.62	2	3.2	2	1.839	2	0.984	2	194.12	6	385	2	2033.1	2	7.9817	2	2296	2	1.20	-9	-9	-9	-9
135	2	25.0	34.962	2	34.968	2	24.486	24.481	23.469	0.100	0.2	2	6.4	2	0.66	2	3.9	2	1.757	2	0.934	2	187.27	6	-9	9	-9	9	7.9714	2	-9	9	1.00	-9	-9	-9	-9
134	2	48.6	34.855	2	34.859	2	17.735	17.727	25.228	0.128	0.5	2	17.3	2	1.37	2	11.3	2	1.216	2	0.643	2	103.40	6	688	2	2130.3	2	7.7718	2	2292	2	0.50	-9	-9	-9	-9
133	2	74.2	34.949	2	34.951	2	15.301	15.290	25.869	0.068	0.5	2	21.6	2	1.62	2	15.0	2	0.977	2	0.504	2	74.14	2	-9	9	-9	9	7.6900	2	-9	9	0.40	-9	-9	-9	-9
132	2	101.4	34.928	2	-9	9	14.041	14.026	26.126	0.051	-9	9	-9	9	-9	9	-9	9	0.863	6	0.446	6	64.65	6	907	2	2181.9	2	-9	9	2296	2	-9	-9	-9	-9	-9
131	2	124.0	34.916	2	34.915	2	13.770	13.752	26.174	0.036	0.0	2	24.0	2	1.72	2	18.1	2	0.799	2	0.420	2	69.96	2	-9	9	-9	9	7.6581	2	-9	9	-9	-9	-9	-9	-9
130	2	151.3	34.913	2	34.913	2	13.445	13.424	26.239	0.034	0.0	2	25.3	2	1.80	2	19.3	2	0.712	2	0.365	2	62.78	6	-9	9	2192.5	2	7.6366	2	2293	2	0.30	-9	-9	-9	-9
129	2	173.7	34.895	2	34.896	2	12.977	12.953	26.321	0.032	0.0	2	25.8	2	1.85	2	20.5	2	0.622	2	0.331	2	62.25	2	-9	9	-9	9	7.6244	2	-9	9	-9	-9	-9	-9	-9
128	2	200.7	34.888	2	34.888	2	12.743	12.716	26.363	0.030	0.0	2	26.9	2	1.93	2	21.6	2	0.552	2	0.295	2	53.43	6	1054	2	2206.7	2	7.5999	2	2296	2	0.20	-9	-9	-9	-9
127	2	249.9	34.877	2	34.877	2	12.546	12.513	26.394	0.033	0.0	2	28.6	2	2.04	2	23.2	2	0.469	2	0.253	2	39.98	2	-9	9	2217.4	2	7.5658	2	2297	2	-9	-9	-9	-9	-9
126	2	301.4	34.815	2	34.714	4	11.604	11.565	26.528	0.033	0.0	2	35.5	4	2.50	4	39.2	4	0.129	6	0.069	6	26.72	6	1529	2	2260.9	2	-9	9	2302	2	0.00	-9	-9	-9	-9
125	2	350.8	34.809	2	34.807	2	11.325	11.280	26.576	0.031	0.0	2	33.0	2	2.36	2	29.3	2	0.242	2	0.138	2	13.65	2	-9	9	-9	9	7.4673	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.2	34.714	2	34.713	2	9.854	9.807	26.762	0.034	0.0	2	35.5	2	2.47	2	34.4	2	0.107	2	0.056	2	20.36	2	1568	2	2260.7	2	7.4471	2	2300	2	0.00	-9	-9	-9	-9
122	2	499.5	34.637	2	34.635	2	8.356	8.304	26.943	0.030	0.0	2	37.9	2	2.61	2	41.3	2	0.030	2	0.016	2	32.11	2	1619	2	2268.2	2	7.4371	2	2302	2	-0.20	-9	-9	-9	-9
121	2	601.0	34.590	2	34.587	2	7.342	7.283	27.056	0.026	0.0	2	38.5	2	2.70	2	48.0	2	0.021	6	0.005	6	46.13	2	1586	2	2272.0	2	7.4462	2	2306	2	-9	-9	-9	-9	-9
120	2	700.4	34.562	2	34.561	2	6.095	6.032	27.203	0.025	0.0	2	40.6	2	2.86	2	63.1	2	0.005	2	0.000	2	47.96	2	1677	2	2291.1	2	-9	9	2325	2	-9	-9	-9	-9	-9
119	2	800.8	34.551	2	34.550	2	5.514	5.445	27.266	0.023	0.0	2	39.9	2	2.79	2	68.8	2	0.001	2	-0.001	2	65.85	2	1573	2	2289.0	2	7.4558	2	2329	2	0.10	-9	-9	-9	-9
118	2	898.5	34.548	2	34.548	2	5.032	4.957	27.322	0.022	0.0	2	39.6	2	2.78	2	76.1	2	0.029	2	0.010	2	73.54	2	1531	2	2293.5	2	7.4666	2	2337	2	-9	-9	-9	-9	-9
117	2	1000.4	34.554	2	34.554	2	4.597	4.517	27.376	0.018	0.0	2	39.8	2	2.80	2	84.7	2	0.003	2	0.000	2	78.10	2	1513	2	2301.7	2	7.4694	2	2350	2	-9	-9	-9	-9	-9
116	2	1098.3	34.564	2	34.564	2	4.226	4.140	27.425	0.020	0.0	2	40.2	2	2.83	2	93.5	2	0.000	2	0.000	2	77.29	2	-9	9	-9	9	7.4650	2	-9	9	-9	-9	-9	-9	-9
115	2	1202.1	34.570	2	34.570	2	3.982	3.889	27.455	0.019	0.0	2	40.2	2	2.83	2	99.0	2	0.002	2	-0.001	2	79.63	2	-9	9	-9	9	7.4683	2	-9	9	-9	-9	-9	-9	-9
114	2	1400.9	34.589	2	34.589	2	3.464	3.359	27.524	0.017	0.0	2	40.5	2	2.85	2	112.6	2	-9	9	-9	9	80.55	2	-9	9	-9	9	7.4690	2	-9	9	-9	-9	-9	-9	-9
113	2	1601.9	34.606	2	34.607	2	2.959	2.843	27.585	0.014	0.0	2	39.6	2	2.77	2	124.1	2	0.001	2	0.000	2	91.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1802.0	34.624	2	34.624	2	2.580	2.452	27.633	0.013	0.0	2	39.3	2	2.75	2	134.0	2	-9	9	-9	9	96.52	2	-9	9	-9	9	7.4946	2	-9	9	-9	-9	-9	-9	-9
111	2	2000.2	34.641	2	34.641	2	2.249	2.109	27.675	0.011	0.0	2	38.7	2	2.70	2	141.3	2	0.002	2	-0.001	2	104.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2202.0	34.649	2	34.649	2	2.099	1.943	27.695	0.010	0.0	2	38.5	2	2.67	2	144.9	2	-9	9	-9	9	109.70	2	-9	9	-9	9	7.5209	2	-9	9	-9	-9	-9	-9	-9
109	2	2399.9	34.658	2	34.658	2	1.936	1.766	27.716	0.010	0.0	2	38.2	2	2.63	2	146.8	2	-9	9	-9	9	117.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2600.8	34.666	2	34.664	2	1.820	1.634	27.732	0.012	0.0	2	37.7	2	2.59	2	149.1	2	-9	9	-9	9	122.86	2	-9	9	-9	9	7.5454	2	-9	9	-9	-9	-9	-9	-9
107	2	2798.6	34.669	2	34.668	2	1.762	1.559	27.741	0.008	0.0	2	37.3	2	2.57	2	149.3	2	-9	9	-9	9	126.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2998.5	34.672	2	34.672	2	1.702	1.480	27.748	0.007	0.0	2	37.0	2	2.54	2	148.5	2	-9	9	-9	9	131.43	2	-9	9	-9	9	7.5575	2	-9	9	-9	-9	-9	-9	-9
105	2	3201.7	34.677	2	34.676	2	1.629	1.390	27.759	0.006	0.0	2	36.6	2	2.51	2	149.5	2	-9	9	-9	9	137.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3401.5	34.683	2	34.682	2	1.546	1.289	27.771	0.008	0.0	2	36.3	2	2.47	2	150.7	2	-9	9	-9	9	143.16	2	-9	9	-9	9	7.5807	2	-9	9	-9	-9	-9	-9	-9
103	2	3600.2	34.688	2	34.688	2	1.480	1.204	27.781	0.009	0.0	2	36.1	2	2.44	2	152.3	2	-9	9	-9	9	147.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3601.0	34.687	2	34.686	2	1.480	1.204	27.780	0.010	0.0	2	36.2	2	2.43	2	152.0	2	-9	9	-9	9	-9	1	-9	9	-9	9	7.5925	2	-9	9	-9	-9	-9	-9	-9
101	2	3702.7	34.688	2	34.687	2	1.481	1.194	27.781	0.010	0.0	2	36.1	2	2.43	2	151.4	2	-9	9	-9	9	149.11	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 149 DATE 4/14/94 LATITUDE 1°20.0'N Btm Depth: 3775
CAST 2 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
236	2	9.7	34.790	2	34.794	2	25.943	25.941	22.893	0.094	0.2	2	5.1	2	0.59	2	4.3	2	1.769	2	0.957	2	200.25	6	373	2	2021.8	2	-9	1	2288	2	-9	-9	-9	0.096	0.039
235	2	24.6	34.997	2	35.013	2	25.077	25.071	23.318	0.099	0.2	2	6.0	2	0.66	2	4.6	2	1.766	2	0.956	2	195.97	2	-9	9	-9	9	7.9780	2	-9	9	-9	-9	-9	0.117	0.062
234	2	49.7	34.828	2	34.841	2	18.726	18.717	24.961	0.104	0.4	2	15.8	2	1.25	2	11.6	2	1.278	2	0.656	2	118.35	2	626	2	2115.5	2	7.8026	2	2287	2	-9	66.1	4.4	0.172	0.137
233	2	74.8	34.935	2	34.937	2	15.762	15.750	25.754	0.066	0.5	2	20.7	2	1.55	2	14.8	2	1.045	2	0.539	2	84.69	2	-9	9	-9	9	7.7146	2	-9	9	-9	54.0	3.7	0.173	0.167
232	2	101.4	34.952	2	34.950	2	14.585	14.570	26.029	0.047	0.4	2	23.7	2	1.72	2	17.2	2	0.893	6	0.461	6	64.02	2	903	2	2180.2	2	7.6608	2	2297	2	-9	53.3	4.0	0.153	0.177
231	2	127.4	34.920	2	34.920	2	13.867	13.849	26.157	0.038	0.1	2	23.9	2	1.73	2	18.8	2	-9	9	-9	9	70.01	2	-9	9	-9	9	7.6617	2	-9	9	-9	50.8	3.0	0.078	0.120
230	2	148.8	34.907	2	34.906	2	13.444	13.423	26.235	0.032	0.0	2	25.4	2	1.77	2	20.2	2	0.738	2	0.381	2	67.62	2	-9	9	2187.1	2	7.6462	2	2303	2	-9	-9	-9	0.039	0.054
229	2	167.0	34.899	2	34.898	2	13.027	13.004	26.314	0.031	0.0	2	26.7	2	1.87	2	21.2	2	-9	9	-9	9	62.02	2	-9	9	-9	9	7.6236	2	-9	9	-9	-9	-9	0.011	0.030
228	2	199.6	34.891	2	34.889	2	12.789	12.762	26.356	0.031	0.1	2	28.7	2	1.97	2	23.0	2	0.528	2	0.278	6	46.52	2	1100	2	2209.6	2	7.5850	2	2300	2	-9	-9	-9	0.004	0.020
227	2	251.0	34.858	2	34.854	2	12.348	12.315	26.418	0.033	0.0	2	31.6	2	2.16	2	25.7	2	-9	9	-9	9	27.31	2	-9	9	2229.9	2	7.5300	2	2302	2	-9	-9	-9	-9	-9
226	2	302.0	34.808	2	34.808	2	11.551	11.512	26.532	0.034	0.0	2	33.9	2	2.29	2	29.2	2	0.261	2	0.139	2	18.75	2	1409	2	2243.5	2	7.4853	2	2301	2	-9	52.1	2.3	-9	-9
225	2	349.4	34.766	2	34.765	2	10.949	10.906	26.610	0.036	0.0	2	34.7	2	2.36	2	30.9	2	-9	9	-9	9	23.86	2	-9	9	-9	9	7.4818	2	-9	9	-9	-9	-9	-9	-9
224	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
223	2	399.3	34.688	2	34.686	2	9.537	9.491	26.794	0.034	0.0	2	37.4	2	2.49	2	35.7	2	0.091	2	0.054	2	28.01	2	1536	2	2258.1	2	7.4545	2	2303	2	-9	-9	-9	-9	-9
222	2	499.6	34.629	2	34.628	2	8.235	8.182	26.955	0.030	0.0	2	39.7	2	2.64	2	41.8	2	-9	9	-9	9	35.44	2	1590	2	2266.6	2	7.4425	2	2304	2	-9	55.9	-9	-9	-9
221	2	600.2	34.586	2	34.586	2	7.239	7.181	27.067	0.024	0.0	2	40.9	2	2.72	2	48.7	2	0.000	2	0.001	2	47.99	6	1575	2	2270.5	2	7.4482	2	2321	2	-9	-9	-9	-9	-9
220	2	699.9	34.563	2	34.562	2	6.176	6.112	27.193	0.024	0.0	2	42.9	2	2.88	2	61.7	2	-9	9	-9	9	50.30	2	1642	2	2288.1	2	7.4325	2	2319	2	-9	-9	-9	-9	-9
219	2	798.0	34.554	2	34.554	2	5.504	5.435	27.270	0.023	0.0	2	43.2	2	2.91	2	71.3	2	0.006	2	0.001	2	54.31	2	1650	2	2298.2	2	7.4325	2	2333	2	-9	-9	-9	-9	-9
218	3	899.9	34.550	2	-9	5	4.993	4.919	27.328	0.022	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	5	-9	-9	-9	-9	-9
217	2	1000.0	34.559	2	34.558	2	4.428	4.349	27.398	0.019	0.0	2	40.8	2	2.85	2	90.7	2	0.001	2	0.000	2	72.10	2	1558	2	2308.9	2	7.4610	2	2353	6	-9	44.7	1.5	-9	-9
216	2	1100.8	34.567	2	34.564	2	4.098	4.013	27.440	0.019	0.1	2	40.9	2	2.82	2	95.8	2	-9	9	-9	9	78.58	2	-9	9	-9	1	-9	9	-9	9	-9	-9	-9	-9	-9
215	2	1199.8	34.570	2	34.570	2	3.912	3.821	27.463	0.019	0.0	2	40.5	2	2.78	2	101.4	2	-9	9	-9	9	88.46	2	-9	9	-9	9	7.4739	2	-9	9	-9	-9	-9	-9	-9
214	2	1400.0	34.593	2	34.592	2	3.349	3.245	27.537	0.017	0.0	2	41.1	2	2.84	2	117.0	2	-9	9	-9	9	81.31	2	-9	9	-9	9	7.4717	2	-9	9	-9	-9	-9	-9	-9
213	2	1597.4	34.613	2	34.611	2	2.857	2.743	27.599	0.015	0.0	2	40.6	2	2.81	2	128.5	2	-9	9	-9	9	92.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
212	2	1801.0	34.630	2	34.629	2	2.466	2.339	27.647	0.013	0.0	2	40.2	2	2.73	2	136.5	2	-9	9	-9	9	98.60	2	-9	9	-9	9	7.4999	2	-9	9	-9	-9	-9	-9	-9
211	2	2000.7	34.642	2	34.640	2	2.221	2.081	27.679	0.011	0.0	2	39.3	2	2.68	2	142.8	2	-9	9	-9	9	107.76	2	-9	9	-9	9	-9	9	-9	9	-9	37.4	-9	-9	-9
210	2	2200.8	34.651	2	34.650	2	2.069	1.915	27.699	0.010	0.0	2	39.4	2	2.66	2	146.9	2	-9	9	-9	9	110.39	2	-9	9	-9	9	7.5219	2	-9	9	-9	-9	-9	-9	-9
209	2	2399.4	34.657	2	34.656	2	1.957	1.786	27.713	0.010	0.0	2	39.2	2	2.65	2	147.9	2	-9	9	-9	9	116.29	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
208	2	2599.3	34.666	2	34.666	2	1.813	1.627	27.733	0.009	0.0	2	38.5	2	2.59	2	148.8	2	-9	9	-9	9	123.40	2	-9	9	-9	9	7.5460	2	-9	9	-9	-9	-9	-9	-9
207	2	2798.8	34.669	2	34.667	2	1.776	1.572	27.739	0.008	0.0	2	38.2	2	2.55	2	150.8	2	-9	9	-9	9	127.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
206	2	3001.1	34.671	2	34.671	2	1.733	1.510	27.746	0.008	0.0	2	38.2	2	2.56	2	151.4	2	-9	9	-9	9	130.46	2	-9	9	-9	9	7.5565	2	-9	9	-9	40.6	-9	-9	-9
205	2	3198.4	34.675	2	34.673	2	1.658	1.418	27.755	0.007	0.0	2	37.9	2	2.54	2	150.2	2	-9	9	-9	9	135.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
204	2	3402.3	34.682	2	34.681	2	1.568	1.310	27.768	0.007	0.0	2	37.9	2	2.50	2	150.6	2	-9	9	-9	9	141.65	2	-9	9	-9	9	7.5770	2	-9	9	-9	-9	-9	-9	-9
203	2	3600.0	34.687	2	34.687	2	1.502	1.225	27.778	0.008	0.0	2	37.4	2	2.45	2	152.1	2	-9	9	-9	9	146.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
202	2	3598.9	34.686	2	34.686	2	1.500	1.224	27.778	0.007	0.0	2	37.4	2	2.45	2	153.9	2	-9	9	-9	9	146.19	2	-9	9	-9	9	7.5894	2	-9	9	-9	-9	-9	-9	-9
201	2	3806.5	34.688	2	34.687	2	1.487	1.190	27.782	0.011	0.0	2	37.9	2	2.45	2	154.0	2	-9	9	-9	9	148.02	2	-9	9	-9	9	-9	9	-9	9	-9	39.9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 150 DATE 4/15/94 LATITUDE 1°40.6'N Btm Depth: 3796
CAST 1 LONGITUDE 110°20.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.4	34.723	2	34.731	2	26.133	26.131	22.784	0.152	0.1	2	5.0	2	0.57	2	3.8	2	-9	9	-9	9	202.01	6	361	2	2016.0	2	8.0001	2	2282	6	-9	-9	-9	-9	-9
135	2	22.7	34.889	2	34.904	2	24.501	24.497	23.409	0.158	0.2	2	6.8	2	0.70	2	4.9	2	-9	9	-9	9	189.58	2	-9	9	-9	9	7.9661	2	-9	9	-9	-9	-9	-9	-9
134	2	50.7	34.758	2	34.744	2	21.327	21.317	24.223	0.117	0.2	2	9.3	2	0.86	2	6.3	2	-9	9	-9	9	169.13	2	470	2	2061.6	2	7.9124	2	2285	2	-9	-9	-9	-9	-9
133	2	73.5	34.950	2	34.952	2	16.017	16.006	25.708	0.070	0.4	2	19.5	2	1.50	2	14.4	2	-9	9	-9	9	86.84	2	-9	9	-9	9	7.7248	2	-9	9	-9	-9	-9	-9	-9
132	2	97.0	34.936	2	34.948	2	14.848	14.833	25.959	0.046	0.3	2	21.9	2	1.62	2	16.6	2	-9	9	-9	9	75.99	2	830	2	2170.2	2	7.6915	2	2296	2	-9	-9	-9	-9	-9
131	2	125.4	34.956	2	34.956	2	14.320	14.302	26.089	0.039	0.0	2	25.0	2	1.79	2	18.0	2	-9	9	-9	9	58.10	2	-9	9	-9	9	7.6457	2	-9	9	-9	-9	-9	-9	-9
130	2	149.4	34.924	2	34.924	2	13.647	13.626	26.206	0.031	0.0	2	24.4	2	1.74	2	18.8	2	-9	9	-9	9	71.01	2	906	2	2182.7	2	7.6585	2	2295	2	-9	-9	-9	-9	-9
129	2	173.0	34.909	2	34.910	2	13.232	13.208	26.281	0.030	0.0	2	25.6	2	1.81	2	20.1	2	-9	9	-9	9	63.84	2	-9	9	-9	9	7.6348	2	-9	9	-9	-9	-9	-9	-9
128	2	197.4	34.899	2	34.898	2	12.978	12.951	26.325	0.030	0.0	2	26.8	2	1.88	2	21.6	2	-9	9	-9	9	56.36	2	1028	2	2201.1	2	7.6113	2	2297	2	-9	-9	-9	-9	-9
127	2	199.1	34.898	2	34.898	2	12.964	12.937	26.327	0.030	0.0	2	26.4	2	1.89	2	21.3	2	-9	9	-9	9	57.35	2	-9	9	2200.9	2	7.6126	2	2300	2	-9	-9	-9	-9	-9
126	2	250.7	34.858	2	34.855	2	12.367	12.334	26.414	0.033	0.0	2	30.8	2	2.15	2	24.8	2	-9	9	-9	9	28.72	2	1260	2	2227.9	2	7.5290	2	2305	2	-9	-9	-9	-9	-9
125	2	299.9	34.808	2	34.808	2	11.576	11.537	26.528	0.034	0.0	2	33.0	2	2.28	2	28.0	2	-9	9	-9	9	20.22	2	-9	9	-9	9	7.4930	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	397.9	34.684	2	34.681	2	9.582	9.536	26.783	0.033	0.0	2	35.5	2	2.49	2	35.9	2	-9	9	-9	9	24.22	2	1572	2	2261.6	2	7.4452	2	2304	2	-9	-9	-9	-9	-9
122	2	497.8	34.627	2	34.628	2	8.178	8.126	26.962	0.028	0.0	2	38.4	2	2.62	2	41.9	2	-9	9	-9	9	36.25	2	1584	2	2266.0	2	7.4408	2	2303	2	-9	-9	-9	-9	-9
121	2	599.8	34.588	2	34.587	2	7.289	7.230	27.062	0.025	0.0	2	38.7	2	2.66	2	47.4	2	-9	9	-9	9	50.11	2	1557	2	2269.0	2	7.4509	2	2316	2	-9	-9	-9	-9	-9
120	2	698.4	34.573	2	34.573	2	6.578	6.513	27.148	0.024	0.0	2	41.5	2	2.83	2	56.7	2	-9	9	-9	9	44.13	2	1655	2	2284.0	2	7.4278	2	2317	2	-9	-9	-9	-9	-9
119	2	797.7	34.558	2	34.558	2	5.777	5.707	27.241	0.023	0.0	2	42.6	2	2.92	2	67.8	2	-9	9	-9	9	46.98	6	1704	2	2299.1	2	7.4196	2	2330	2	-9	-9	-9	-9	-9
118	2	898.5	34.555	2	34.556	2	5.027	4.952	27.328	0.021	0.0	2	42.4	2	2.91	2	80.4	2	-9	9	-9	9	55.40	2	1669	2	2307.3	2	7.4296	2	2351	2	-9	-9	-9	-9	-9
117	2	1000.1	34.561	2	34.561	2	4.440	4.361	27.399	0.020	0.0	2	41.7	2	2.90	2	90.5	2	-9	9	-9	9	69.52	2	1589	2	2312.1	2	7.4531	2	2357	6	-9	-9	-9	-9	-9
116	2	1101.3	34.566	2	34.565	2	4.104	4.019	27.439	0.018	0.0	2	40.6	2	2.84	2	96.4	2	-9	9	-9	9	79.71	2	-9	9	-9	9	7.4675	2	-9	9	-9	-9	-9	-9	-9
115	2	1198.1	34.571	2	34.572	2	3.896	3.804	27.465	0.018	0.0	2	40.5	2	2.82	2	101.2	2	-9	9	-9	9	82.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1299.7	34.587	2	34.588	2	3.565	3.468	27.511	0.018	0.0	2	40.4	2	2.83	2	101.0	2	-9	9	-9	9	76.34	2	-9	9	-9	9	7.4614	2	-9	9	-9	-9	-9	-9	-9
113	2	1398.9	34.592	2	34.593	2	3.380	3.276	27.534	0.017	0.0	2	41.3	2	2.89	2	111.4	2	-9	9	-9	9	80.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1499.9	34.602	2	34.602	2	3.171	3.061	27.561	0.017	0.0	2	41.0	2	2.85	2	120.4	2	-9	9	-9	9	81.29	2	-9	9	-9	9	7.4691	2	-9	9	-9	-9	-9	-9	-9
111	2	1600.9	34.611	2	34.610	2	2.944	2.829	27.590	0.014	0.0	2	40.5	2	2.82	2	126.6	2	-9	9	-9	9	86.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1799.6	34.630	2	34.630	2	2.564	2.436	27.639	0.012	0.0	2	39.9	2	2.78	2	137.9	2	-9	9	-9	9	94.22	2	-9	9	-9	9	7.4939	2	-9	9	-9	-9	-9	-9	-9
109	2	2001.0	34.640	2	34.640	2	2.265	2.124	27.673	0.011	0.0	2	39.7	2	2.71	2	140.9	2	-9	9	-9	9	107.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2250.6	34.652	2	34.652	2	2.034	1.876	27.703	0.010	0.0	2	38.9	2	2.66	2	145.1	2	-9	9	-9	9	113.00	2	-9	9	-9	9	7.5248	2	-9	9	-9	-9	-9	-9	-9
107	2	2501.6	34.662	2	34.661	2	1.874	1.696	27.724	0.009	0.0	2	38.6	2	2.62	2	147.8	2	-9	9	-9	9	119.76	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2749.6	34.669	2	34.677	3	1.772	1.573	27.740	0.008	0.0	2	38.2	2	2.59	2	149.2	2	-9	9	-9	9	126.79	2	-9	9	-9	9	7.5523	2	-9	9	-9	-9	-9	-9	-9
105	2	2997.7	34.671	2	34.672	2	1.737	1.515	27.745	0.008	0.0	2	38.3	2	2.58	2	148.0	2	-9	9	-9	9	129.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3250.1	34.677	2	34.677	2	1.633	1.388	27.759	0.007	0.0	2	37.7	2	2.51	2	149.1	2	-9	9	-9	9	136.45	2	-9	9	-9	9	7.5667	2	-9	9	-9	-9	-9	-9	-9
103	2	3501.5	34.683	2	34.685	2	1.552	1.284	27.771	0.006	0.0	2	37.0	2	2.48	2	152.6	2	-9	9	-9	9	142.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3501.6	34.683	2	34.683	2	1.552	1.284	27.771	0.006	0.0	2	37.4	2	2.49	2	152.0	2	-9	9	-9	9	143.50	2	-9	9	-9	9	7.5813	2	-9	9	-9	-9	-9	-9	-9
101	2	3796.4	34.688	2	34.688	2	1.485	1.188	27.782	0.010	0.0	2	37.1	2	2.46	2	152.9	2	-9	9	-9	9	147.88	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 151 DATE 4/15/94 LATITUDE 2°0.0'N Btm Depth: 3772
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.0	34.609	2	34.609	2	26.585	26.583	22.555	0.161	0.1	2	4.6	2	0.52	2	4.7	2	1.727	2	0.946	2	203.53	6	354	2	2003.9	2	8.0101	2	2281	2	1.40	70.9	5.7	-9	-9
135	2	24.4	34.684	2	34.694	2	26.018	26.012	22.791	0.182	0.1	2	5.4	2	0.57	2	5.0	2	1.699	2	0.924	2	199.71	2	378	2	2015.7	2	7.9949	2	2280	2	-9	74.4	5.9	-9	-9
134	2	48.4	34.856	2	34.847	2	17.701	17.693	25.237	0.146	0.3	2	16.8	2	1.30	2	13.7	2	1.236	2	0.636	2	117.16	2	639	2	2117.9	2	7.7973	2	2291	2	-9	58.5	5.7	-9	-9
133	2	74.1	34.927	2	34.931	2	15.311	15.300	25.850	0.069	0.7	2	22.9	2	1.69	2	18.0	2	0.979	6	0.507	6	71.96	2	857	2	2167.5	2	7.6839	2	2293	2	-9	-9	4.8	-9	-9
132	2	98.8	34.951	2	34.950	2	14.400	14.385	26.067	0.044	0.0	2	25.2	2	1.77	2	19.4	2	0.847	2	0.438	2	64.17	2	916	2	2179.5	2	7.6594	2	2294	2	-9	51.6	3.7	-9	-9
131	2	123.9	34.939	2	34.938	2	13.973	13.955	26.149	0.034	0.0	2	25.8	2	1.84	2	20.6	2	0.761	2	0.399	2	60.01	2	959	2	2186.7	2	7.6431	2	2295	2	-9	51.3	-9	-9	-9
130	2	149.3	34.929	2	34.930	2	13.679	13.658	26.204	0.031	0.0	2	27.2	2	1.91	2	22.0	2	0.692	2	0.356	2	53.60	2	1008	2	2193.4	2	7.6226	2	2296	2	-9	-9	-9	-9	-9
129	2	173.7	34.902	2	34.902	2	13.163	13.139	26.289	0.031	0.0	2	29.3	2	2.05	2	24.0	2	0.539	2	0.279	2	39.02	2	1126	2	2208.7	2	7.5795	2	2292	2	-9	-9	-9	-9	-9
128	2	199.0	34.880	2	34.879	2	12.772	12.745	26.351	0.032	0.0	2	30.6	2	2.15	2	25.7	2	0.434	2	0.233	2	33.05	2	1199	2	2217.1	2	7.5526	2	2295	2	-9	47.2	-9	-9	-9
127	2	199.7	34.879	2	34.878	2	12.772	12.745	26.350	0.031	0.0	2	30.3	2	2.14	2	25.8	2	0.444	6	0.236	6	32.54	2	1201	2	2216.9	2	7.5541	2	2292	2	-9	-9	-9	-9	-9
126	2	250.7	34.844	2	34.844	2	12.185	12.152	26.439	0.031	0.0	2	32.5	2	2.26	2	28.3	2	0.364	2	0.186	2	23.26	2	1320	2	2230.5	2	7.5157	2	2295	2	-9	52.0	3.1	-9	-9
125	2	296.6	34.812	2	34.812	2	11.709	11.671	26.506	0.034	0.0	2	33.1	2	2.28	2	29.9	2	0.287	2	0.153	2	20.94	2	1389	2	2237.3	2	7.4974	2	2294	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	395.3	34.693	2	34.693	2	9.799	9.754	26.754	0.032	0.0	2	35.0	2	2.51	2	37.2	2	0.112	6	0.062	6	25.01	2	1537	2	2254.6	2	7.4555	2	2313	3	-9	-9	-9	-9	-9
122	2	498.9	34.621	2	34.619	2	8.165	8.113	26.959	0.030	0.0	2	39.5	2	2.71	2	45.5	2	0.024	2	0.012	2	30.85	2	1642	2	2271.9	2	7.4322	2	2305	2	-9	-9	-9	-9	-9
121	3	599.9	34.588	2	34.587	2	7.317	7.259	27.058	0.025	0.0	2	39.3	2	2.73	2	49.6	2	0.026	2	0.007	2	50.25	2	-9	9	2269.7	2	-9	9	2309	3	-9	44.9	-9	-9	-9
120	2	700.3	34.566	2	34.566	2	6.553	6.488	27.147	0.023	0.0	2	41.0	2	2.87	2	58.0	2	0.004	2	0.002	2	49.47	2	1624	2	2281.3	2	7.4395	2	2317	2	-9	-9	-9	-9	-9
119	2	800.0	34.558	2	34.558	2	5.721	5.651	27.247	0.023	0.0	2	42.2	2	3.00	2	70.6	2	0.008	2	0.001	2	48.72	2	1699	2	2300.9	2	7.4207	2	2333	2	-9	-9	-9	-9	-9
118	2	900.9	34.557	2	34.558	2	5.082	5.007	27.324	0.021	0.0	2	42.7	2	3.02	2	82.0	2	0.000	2	-0.002	2	52.30	2	1699	2	2311.5	2	7.4249	2	2345	2	-9	-9	-9	-9	-9
117	2	1001.4	34.565	2	34.565	2	4.462	4.383	27.400	0.020	0.0	2	42.0	2	3.00	2	93.4	2	0.003	2	0.000	2	62.53	2	1650	2	-9	1	7.4375	2	-9	5	-9	41.9	-9	-9	-9
116	2	1099.8	34.570	2	34.570	2	4.138	4.052	27.438	0.019	0.0	2	41.8	2	2.98	2	99.5	2	-9	9	-9	9	69.84	2	1603	2	2322.1	2	7.4487	2	2368	2	-9	-9	-9	-9	-9
115	2	1199.5	34.578	2	34.578	2	3.870	3.778	27.473	0.017	0.0	2	41.7	2	2.95	2	105.8	2	0.000	2	-0.002	2	71.72	2	1600	2	2327.5	2	7.4516	2	2368	2	-9	-9	-9	-9	-9
114	2	1300.7	34.587	2	34.588	2	3.549	3.452	27.513	0.017	0.0	2	41.4	2	2.96	2	114.9	2	-9	9	-9	9	77.01	2	1567	2	2330.8	2	7.4623	2	2381	2	-9	-9	-9	-9	-9
113	2	1399.7	34.594	2	34.595	2	3.316	3.213	27.541	0.017	0.0	2	41.4	2	2.95	2	120.0	2	-0.002	2	-0.002	2	81.17	2	1543	2	2334.3	2	7.4668	2	2382	2	-9	-9	-9	-9	-9
112	2	1600.3	34.609	2	34.610	2	2.960	2.844	27.587	0.017	0.0	2	41.1	2	2.89	2	127.8	2	-9	9	-9	9	86.51	2	1507	2	2342.3	2	7.4789	2	2396	2	-9	-9	-9	-9	-9
111	2	1800.4	34.627	2	34.627	2	2.612	2.483	27.633	0.012	0.0	2	40.6	2	2.84	2	137.4	2	-9	9	-9	9	93.20	2	1472	2	2348.5	2	7.4900	2	2406	2	-9	-9	-9	-9	-9
110	2	2001.8	34.638	2	34.638	2	2.337	2.195	27.666	0.010	0.0	2	40.2	2	2.81	2	141.7	2	-0.001	2	-0.002	2	101.46	2	1416	2	2350.8	2	7.5061	2	2415	2	-9	-9	-9	-9	-9
109	2	2247.7	34.651	2	34.652	2	2.069	1.910	27.699	0.010	0.0	2	39.5	2	2.73	2	148.3	2	-9	9	-9	9	109.87	2	1371	2	2349.6	2	7.5204	2	2416	2	-9	-9	-9	-9	-9
108	2	2500.5	34.664	2	34.665	2	1.840	1.663	27.729	0.010	0.0	2	38.9	2	2.68	2	152.2	2	-9	9	-9	9	119.38	2	1311	2	2349.6	2	7.5390	2	2425	2	-9	-9	-9	-9	-9
107	2	2743.1	34.668	2	34.668	2	1.774	1.575	27.738	0.008	0.0	2	38.5	2	2.64	2	154.2	2	0.001	2	-0.001	2	123.98	2	1289	2	2346.9	2	7.5387	2	2427	2	-9	-9	-9	-9	-9
106	2	2997.6	34.672	2	34.672	2	1.710	1.489	27.747	0.006	0.0	2	38.1	2	2.63	2	152.1	2	-9	9	-9	9	130.29	2	1263	2	2342.1	2	7.5532	2	2427	2	-9	-9	-9	-9	-9
105	2	3247.6	34.678	2	34.678	2	1.602	1.359	27.762	0.006	0.0	2	37.9	2	2.58	2	152.6	2	-9	1	-9	1	139.07	2	1222	2	2337.1	2	7.5695	2	2429	2	-9	-9	-9	-9	-9
104	2	3499.2	34.685	2	34.685	2	1.507	1.240	27.776	0.006	0.0	2	37.8	2	2.57	2	154.6	2	-9	9	-9	9	145.34	2	1170	2	2336.9	2	7.5852	2	2429	2	-9	-9	-9	-9	-9
103	2	3748.1	34.688	2	34.689	2	1.477	1.186	27.782	0.009	0.0	2	37.3	2	2.51	2	155.3	2	0.002	2	0.000	2	148.12	2	1149	2	2336.8	2	7.5938	2	2432	2	-9	-9	-9	-9	-9
102	2	3747.7	34.688	2	34.688	2	1.477	1.186	27.782	0.009	0.0	2	37.4	2	2.52	2	155.2	2	-9	9	-9	9	148.24	2	1146	2	2337.1	2	7.5930	2	2437	2	-9	-9	-9	-9	-9
101	2	3838.6	34.688	2	34.688	2	1.487	1.186	27.782	0.009	0.0	2	37.4	2	2.54	2	155.1	2	-9	9	-9	9	147.91	2	1143	2	2336.2	2	7.5896	2	2440	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 152 DATE 4/15/94 LATITUDE 2°20.0'N Btm Depth: 3701
CAST 1 LONGITUDE 110°20.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.0	34.387	2	34.392	2	27.037	27.035	22.245	0.132	0.1	2	4.3	2	0.53	2	4.0	2	1.853	6	0.946	6	201.80	2	354	2	1996.3	2	8.0129	2	2261	3	1.40	-9	-9	-9	-9
135	2	24.9	34.502	2	34.501	2	27.057	27.052	22.326	0.133	0.1	2	4.5	2	0.54	2	3.9	2	1.725	2	0.946	2	201.73	2	-9	9	-9	9	-9	9	-9	9	1.30	-9	-9	-9	-9
134	2	49.9	34.814	2	34.814	2	18.835	18.826	24.923	0.151	0.3	2	14.4	2	1.21	2	10.6	2	1.284	2	0.666	2	126.31	2	588	2	2109.2	2	7.8232	2	2284	2	0.80	-9	-9	-9	-9
133	2	74.9	34.942	2	34.945	2	15.569	15.557	25.804	0.086	0.9	2	24.7	2	1.84	2	17.7	2	0.910	2	0.479	2	45.13	2	-9	9	-9	9	7.6329	2	-9	9	-9	-9	-9	-9	-9
132	2	101.0	34.957	2	34.956	2	14.955	14.940	25.952	0.052	0.2	2	22.4	2	1.65	2	17.3	2	-9	9	-9	9	74.20	2	825	2	2169.7	2	7.6900	2	2292	2	0.40	-9	-9	-9	-9
131	2	126.4	34.948	2	34.948	2	14.178	14.159	26.114	0.034	0.0	2	24.7	2	1.79	2	19.2	2	0.810	2	0.426	2	64.00	2	-9	9	-9	9	7.6540	2	-9	9	-9	-9	-9	-9	-9
130	2	153.3	34.932	2	34.932	2	13.634	13.612	26.215	0.033	0.0	2	26.5	2	1.90	2	21.0	2	-9	9	-9	9	53.25	2	-9	9	2197.5	2	7.6220	2	2295	2	0.30	-9	-9	-9	-9
129	2	175.0	34.912	2	34.913	2	13.305	13.281	26.268	0.033	0.0	2	27.2	2	1.95	2	22.0	2	0.591	2	0.313	2	47.72	6	-9	9	-9	9	7.6024	2	-9	9	-9	-9	-9	-9	-9
128	2	200.3	34.887	2	34.885	2	12.905	12.877	26.330	0.033	0.0	2	29.3	2	2.09	2	24.2	2	-9	9	-9	9	35.36	2	1154	2	2217.8	2	7.5638	2	2296	2	0.20	-9	-9	-9	-9
127	2	227.3	34.860	2	34.859	2	12.547	12.516	26.381	0.034	0.0	2	30.4	2	2.15	2	25.4	2	1.348	4	0.571	4	30.89	2	-9	9	-9	9	7.5436	2	-9	9	-9	-9	-9	-9	-9
126	2	248.4	34.833	2	34.831	2	12.165	12.132	26.434	0.035	0.0	2	30.9	2	2.17	2	26.8	2	-9	9	-9	9	30.52	2	-9	9	2228.8	2	-9	9	2293	2	-9	-9	-9	-9	-9
125	2	302.0	34.774	2	34.774	2	11.266	11.228	26.558	0.036	0.0	2	32.1	2	2.27	2	30.0	2	0.278	2	0.143	2	29.27	2	1347	2	2238.8	2	7.5054	2	2293	2	0.10	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	348.6	34.719	2	34.719	2	10.308	10.267	26.687	0.035	0.0	2	34.3	2	2.45	2	35.1	2	-9	9	-9	9	23.94	2	-9	9	-9	9	7.4670	2	-9	9	-9	-9	-9	-9	-9
122	2	401.5	34.672	2	34.671	2	9.276	9.231	26.824	0.032	0.0	2	36.7	2	2.60	2	40.2	2	0.068	2	0.030	2	21.11	2	1608	2	2267.5	2	7.4351	2	2301	2	0.10	-9	-9	-9	-9
121	2	500.5	34.617	2	34.615	2	8.079	8.027	26.969	0.029	0.0	2	38.3	2	2.69	2	45.2	2	0.028	2	0.013	2	36.15	2	1597	2	2269.3	2	7.4399	2	2303	2	0.10	-9	-9	-9	-9
120	2	602.1	34.580	2	34.578	2	7.091	7.033	27.083	0.025	0.0	2	39.4	2	2.76	2	51.6	2	0.018	2	0.004	2	49.26	2	1574	2	2273.7	2	7.4491	2	2311	2	-9	-9	-9	-9	-9
119	2	700.5	34.562	2	34.562	2	6.432	6.368	27.159	0.024	0.0	2	40.3	2	2.83	2	58.5	2	-9	9	-9	9	52.44	6	1600	2	2281.2	2	7.4423	2	2316	2	-9	-9	-9	-9	-9
118	2	800.4	34.561	2	34.560	2	5.747	5.677	27.246	0.024	0.0	2	42.4	2	2.99	2	71.5	2	0.005	2	0.001	2	41.87	2	1745	2	2302.9	2	7.4124	2	2329	2	0.10	-9	-9	-9	-9
117	2	901.6	34.559	2	34.559	2	5.063	4.988	27.327	0.022	0.0	2	42.3	2	2.99	2	82.9	2	-9	9	-9	9	52.88	6	1681	2	2310.4	2	7.4248	2	2344	6	-9	-9	-9	-9	-9
116	2	1001.3	34.564	2	34.563	2	4.499	4.420	27.395	0.021	0.0	2	41.7	2	2.98	2	93.4	2	-9	9	-9	9	61.13	2	1655	2	2318.0	2	7.4355	2	2354	2	-9	-9	-9	-9	-9
115	2	1201.2	34.582	2	34.581	2	3.773	3.682	27.486	0.018	0.0	2	41.6	2	3.00	2	109.0	2	-9	9	-9	9	69.71	2	-9	9	-9	9	7.4508	2	-9	9	-9	-9	-9	-9	-9
114	2	1399.4	34.594	2	34.593	2	3.327	3.224	27.541	0.017	0.0	2	40.9	2	2.92	2	116.5	2	-9	9	-9	9	80.64	2	-9	9	-9	9	7.4678	2	-9	9	-9	-9	-9	-9	-9
113	2	1599.6	34.611	2	34.611	2	2.929	2.813	27.592	0.015	0.0	2	40.9	2	2.88	2	125.9	2	-9	9	-9	9	92.91	2	-9	9	-9	9	7.4781	2	-9	9	-9	-9	-9	-9	-9
112	2	1800.1	34.628	2	34.627	2	2.592	2.464	27.635	0.014	0.0	2	40.5	2	2.85	2	133.5	2	-9	9	-9	9	93.42	2	-9	9	-9	9	7.4920	2	-9	9	-9	-9	-9	-9	-9
111	2	2003.4	34.637	2	34.636	2	2.373	2.231	27.662	0.012	0.0	2	39.6	2	2.82	2	143.4	2	-9	9	-9	9	99.73	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2201.5	34.647	2	34.646	2	2.183	2.026	27.687	0.010	0.0	2	39.2	2	2.75	2	151.1	2	-9	9	-9	9	115.12	2	-9	9	-9	9	7.5154	2	-9	9	-9	-9	-9	-9	-9
109	2	2394.0	34.661	2	34.660	2	1.914	1.745	27.720	0.010	0.0	2	38.6	2	2.69	2	153.8	2	-9	9	-9	9	115.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2599.5	34.667	2	34.666	2	1.822	1.635	27.733	0.009	0.0	2	38.3	2	2.67	2	154.1	2	-9	9	-9	9	119.82	2	-9	9	-9	9	7.5424	2	-9	9	-9	-9	-9	-9	-9
107	2	2799.1	34.669	2	34.669	2	1.770	1.567	27.740	0.008	0.0	2	37.9	2	2.63	2	151.4	2	-9	9	-9	9	124.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2998.7	34.673	2	34.671	2	1.699	1.478	27.749	0.008	0.0	2	38.0	2	2.60	2	148.1	2	-9	9	-9	9	131.39	2	-9	9	-9	9	7.5565	2	-9	9	-9	-9	-9	-9	-9
105	2	3201.2	34.678	2	34.678	2	1.612	1.373	27.761	0.006	0.0	2	37.4	2	2.58	2	147.6	2	-9	9	-9	9	136.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3401.2	34.683	2	34.682	2	1.549	1.292	27.770	0.006	0.0	2	37.2	2	2.55	2	152.7	2	-9	9	-9	9	140.71	2	-9	9	-9	9	7.5749	2	-9	9	-9	-9	-9	-9	-9
103	2	3524.4	34.686	2	34.687	2	1.497	1.229	27.777	0.006	0.0	2	36.6	2	2.52	2	156.4	2	-9	9	-9	9	145.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3600.5	34.688	2	34.688	2	1.470	1.195	27.781	0.008	0.0	2	36.9	2	2.51	2	156.7	2	-9	9	-9	9	147.80	2	-9	9	-9	9	7.5912	2	-9	9	-9	-9	-9	-9	-9
101	2	3731.2	34.688	2	34.691	2	1.472	1.183	27.782	0.009	0.0	2	36.9	2	2.51	2	154.8	2	-9	9	-9	9	147.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 153 DATE 4/15/94 LATITUDE 2°40.0'N Btm Depth: 3710
CAST 3 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	SiOH4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Pheo µg/L
336	2	9.1	34.422	2	34.425	2	27.412	27.410	22.151	0.111	0.1	2	4.3	2	0.57	2	3.3	2	-9	9	-9	9	202.78	6	353	2	1995.7	2	8.0149	2	2290	3	-9	-9	-9	0.141	0.064
335	2	25.2	34.444	2	34.449	2	27.370	27.364	22.183	0.115	0.1	2	4.3	2	0.58	2	3.2	2	-9	9	-9	9	202.42	2	-9	9	-9	9	8.0150	2	-9	9	-9	-9	-9	0.156	0.074
334	2	50.2	34.854	2	34.854	2	18.362	18.353	25.073	0.103	0.2	2	14.6	2	1.27	2	10.7	2	-9	9	-9	9	127.65	2	-9	9	-9	9	7.8209	2	-9	9	-9	-9	-9	0.172	0.127
333	2	73.3	34.942	2	34.945	2	15.618	15.606	25.792	0.086	0.4	2	20.6	2	1.64	2	15.3	2	-9	9	-9	9	80.44	2	-9	9	-9	9	7.7070	2	-9	9	-9	52.3	4.4	0.252	0.391
332	2	99.5	34.960	2	34.959	2	14.749	14.734	25.999	0.047	0.2	2	23.3	2	1.72	2	18.1	2	-9	9	-9	9	62.85	2	-9	9	-9	9	-9	1	-9	9	-9	42.2	4.7	0.122	0.180
331	2	122.8	34.946	2	34.945	2	14.107	14.089	26.127	0.039	0.0	2	23.6	2	1.75	2	19.4	2	-9	9	-9	9	67.19	2	-9	9	-9	9	7.6598	2	-9	9	-9	-9	3.9	0.031	0.052
330	2	148.7	34.942	2	34.940	2	13.791	13.770	26.190	0.033	0.0	2	26.3	2	1.93	2	21.0	2	-9	9	-9	9	50.63	2	-9	9	-9	9	7.6182	2	-9	9	-9	-9	-9	0.010	0.034
329	2	173.9	34.921	2	34.920	2	13.444	13.419	26.246	0.033	0.0	2	26.9	2	1.98	2	21.8	2	-9	9	-9	9	48.71	2	-9	9	-9	9	7.6074	2	-9	9	-9	-9	-9	0.005	0.027
328	2	199.6	34.903	2	34.912	2	13.077	13.050	26.308	0.034	0.0	2	27.8	2	2.03	2	22.9	2	-9	9	-9	9	44.44	2	-9	9	-9	9	7.5866	2	-9	9	-9	49.3	-9	0.004	0.024
327	2	220.7	34.876	2	34.874	2	12.742	12.712	26.354	0.035	0.0	2	29.8	2	2.14	2	24.6	2	-9	9	-9	9	32.05	2	-9	9	-9	9	7.5527	2	-9	9	-9	-9	-9	-9	-9
326	2	248.9	34.841	2	34.838	2	12.300	12.267	26.414	0.035	0.0	2	30.4	2	2.22	2	26.7	2	-9	9	-9	9	30.24	2	-9	9	-9	9	7.5345	2	-9	9	-9	-9	-9	-9	-9
325	2	301.5	34.776	2	34.779	2	11.428	11.390	26.530	0.037	0.0	2	30.8	2	2.25	2	29.7	2	-9	9	-9	9	34.18	2	-9	9	-9	9	7.5208	2	-9	9	-9	42.7	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	39.8	-9	-9	-9
323	2	349.5	34.738	2	34.734	2	10.662	10.620	26.640	0.037	0.0	2	33.0	2	2.43	2	35.0	2	-9	9	-9	9	23.98	2	-9	9	-9	9	7.4739	2	-9	9	-9	-9	-9	-9	-9
322	2	399.6	34.682	2	34.681	2	9.486	9.441	26.798	0.032	0.0	2	35.6	2	2.67	2	41.8	2	-9	9	-9	9	14.48	2	-9	9	-9	9	7.4245	2	-9	9	-9	39.6	2.7	-9	-9
321	2	498.3	34.620	2	34.618	2	8.117	8.065	26.966	0.029	0.0	2	38.6	2	2.73	2	46.1	2	-9	9	-9	9	33.86	2	-9	9	-9	9	7.4365	2	-9	9	-9	-9	-9	-9	-9
320	2	601.7	34.583	2	34.582	2	7.041	6.983	27.093	0.026	0.0	2	39.9	2	2.85	2	54.2	2	-9	9	-9	9	42.60	2	-9	9	-9	9	7.4338	2	-9	9	-9	-9	-9	-9	-9
319	2	700.5	34.574	2	34.572	2	6.497	6.433	27.160	0.025	0.0	2	41.5	2	2.96	2	61.0	2	-9	9	-9	9	36.74	2	-9	9	-9	9	7.4119	2	-9	9	-9	-9	-9	-9	-9
318	2	797.0	34.563	2	34.562	2	5.821	5.751	27.238	0.026	0.0	2	42.4	2	3.01	2	70.3	2	-9	9	-9	9	39.85	2	-9	9	-9	9	7.4091	2	-9	9	-9	-9	-9	-9	-9
317	2	902.8	34.558	2	34.557	2	5.188	5.112	27.312	0.023	0.0	2	43.5	2	3.02	2	78.7	2	-9	9	-9	9	49.36	2	-9	9	-9	9	7.4197	2	-9	9	-9	-9	-9	-9	-9
316	2	1001.6	34.561	2	34.561	2	4.521	4.441	27.390	0.022	0.0	2	42.4	2	3.03	2	91.1	2	-9	9	-9	9	61.22	2	-9	9	-9	9	7.4376	2	-9	9	-9	37.7	-9	-9	-9
315	2	1098.0	34.572	2	34.571	2	4.120	4.035	27.442	0.021	0.0	2	41.7	2	3.01	2	103.0	2	-9	9	-9	9	65.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1197.7	34.581	2	34.581	2	3.784	3.693	27.484	0.019	0.0	2	42.1	2	2.99	2	109.6	2	-9	9	-9	9	69.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	2	1300.2	34.589	2	34.590	2	3.486	3.389	27.521	0.017	0.0	2	41.7	2	2.96	2	113.4	2	-9	9	-9	9	77.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
312	2	1401.3	34.596	2	34.595	2	3.275	3.172	27.547	0.017	0.0	2	41.5	2	2.91	2	116.7	2	-9	9	-9	9	81.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
311	2	1602.2	34.613	2	34.612	2	2.928	2.812	27.593	0.017	0.0	2	41.1	2	2.92	2	126.6	2	-9	9	-9	9	85.23	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	1799.4	34.625	2	34.625	2	2.630	2.502	27.630	0.013	0.0	2	40.9	2	2.87	2	134.0	2	-9	9	-9	9	92.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
309	2	1999.8	34.635	2	34.635	2	2.408	2.266	27.658	0.012	0.0	2	39.8	2	2.84	2	140.3	2	-9	9	-9	9	99.22	6	-9	9	-9	9	-9	9	-9	9	-9	41.3	-9	-9	-9
308	2	2247.5	34.651	2	34.650	2	2.108	1.948	27.696	0.010	0.0	2	39.1	2	2.76	2	150.9	2	-9	9	-9	9	108.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2499.7	34.664	2	34.665	2	1.873	1.695	27.726	0.010	0.0	2	38.9	2	2.70	2	154.2	2	-9	9	-9	9	117.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	2749.3	34.669	2	34.668	2	1.792	1.593	27.738	0.010	0.0	2	38.7	2	2.69	2	153.4	2	-9	9	-9	9	122.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
305	2	2998.7	34.673	2	34.672	2	1.729	1.507	27.747	0.007	0.0	2	38.6	2	2.67	2	155.0	2	-9	9	-9	9	125.15	2	-9	9	-9	9	-9	9	-9	9	-9	37.3	-9	-9	-9
304	2	3249.5	34.678	2	34.677	2	1.610	1.367	27.761	0.007	0.0	2	37.7	2	2.60	2	149.3	2	-9	9	-9	9	137.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3502.0	34.685	2	34.686	2	1.501	1.234	27.776	0.006	0.0	2	37.1	2	2.55	2	151.0	2	-9	9	-9	9	144.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	3500.8	34.686	2	34.685	2	1.500	1.234	27.777	0.006	0.0	2	37.2	2	2.55	2	154.5	2	-9	9	-9	9	145.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	2	3741.6	34.688	2	34.689	2	1.466	1.176	27.783	0.009	0.0	2	37.4	2	2.52	2	155.7	2	-9	9	-9	9	147.84	2	-9	9	-9	9	-9	9	-9	9	-9	41.0	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 154 DATE 4/15/94 LATITUDE 3°0.0'N Btm Depth: 3770
CAST 1 LONGITUDE 110°20.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.2	34.634	2	34.639	2	27.702	27.700	22.217	0.105	0.1	2	4.5	2	0.53	2	2.9	2	1.732	2	0.976	2	203.26	6	343	2	2002.0	2	8.0181	2	2279	6	1.40	-9	-9	-9	-9
135	2	24.3	34.669	2	34.685	2	27.472	27.467	22.319	0.116	0.1	2	4.6	2	0.53	2	2.9	2	1.750	2	0.953	2	202.22	2	-9	9	-9	9	8.0149	2	-9	9	-9	-9	-9	-9	-9
134	2	48.5	34.913	2	34.922	2	16.660	16.652	25.530	0.134	0.3	2	19.0	2	1.45	2	12.9	2	1.115	2	0.578	2	98.86	2	778	2	2142.0	2	7.7544	2	2296	2	-9	-9	-9	-9	-9
133	2	73.6	34.943	2	34.948	2	15.207	15.196	25.885	0.100	0.4	2	21.9	2	1.65	2	15.3	2	1.007	6	0.519	6	76.91	2	-9	9	-9	9	7.6953	2	-9	9	-9	-9	-9	-9	-9
132	2	99.1	34.948	2	34.949	2	14.352	14.338	26.076	0.047	0.0	2	23.9	2	1.74	2	17.4	2	0.887	2	0.468	2	69.32	2	877	2	2176.4	2	-9	9	2295	2	-9	-9	-9	-9	-9
131	2	126.0	34.940	2	34.941	2	13.889	13.870	26.168	0.033	0.0	2	25.4	2	1.83	2	18.6	2	0.751	2	0.394	2	61.18	2	-9	9	-9	9	7.6440	2	-9	9	-9	-9	-9	-9	-9
130	2	149.4	34.933	2	34.932	2	13.636	13.615	26.216	0.031	0.0	2	26.4	2	1.91	2	19.4	2	0.690	2	0.355	2	54.94	2	987	2	2194.3	2	7.6249	2	2296	2	-9	-9	-9	-9	-9
129	2	174.2	34.911	2	34.909	2	13.270	13.245	26.274	0.032	0.0	2	28.0	2	2.00	2	20.9	2	0.567	6	0.301	6	44.86	2	-9	9	-9	9	7.5940	2	-9	9	-9	-9	-9	-9	-9
128	2	198.5	34.895	2	34.891	2	13.058	13.031	26.306	0.035	0.0	2	29.1	2	2.09	2	22.0	2	0.501	2	0.269	2	36.87	2	1138	2	2212.7	2	7.5695	2	2296	2	-9	-9	-9	-9	-9
127	2	248.4	34.840	2	34.838	2	12.264	12.231	26.420	0.035	0.0	2	31.4	2	2.21	2	25.1	2	0.363	2	0.195	2	27.30	2	1267	2	2225.9	2	7.5279	2	2295	2	-9	-9	-9	-9	-9
126	2	300.6	34.776	2	34.774	2	11.378	11.340	26.539	0.037	0.0	2	31.3	2	2.24	2	27.4	2	0.427	2	0.231	2	36.85	2	1282	2	-9	1	7.5243	2	2292	2	-9	-9	-9	-9	-9
125	2	350.2	34.722	2	34.721	2	10.442	10.400	26.666	0.036	0.0	2	33.4	2	2.39	2	31.2	2	0.193	6	0.098	6	30.96	2	-9	9	-9	9	7.4872	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.3	34.688	2	34.687	2	9.614	9.569	26.781	0.032	0.0	2	35.7	2	2.69	2	38.1	2	0.066	2	0.035	2	9.60	2	1687	2	2229.7	3	7.4157	2	2303	2	-9	-9	-9	-9	-9
122	2	498.6	34.619	2	34.617	2	7.811	7.761	27.010	0.029	0.0	2	40.7	2	2.88	2	47.2	2	-9	1	-9	1	21.09	2	1738	2	2271.9	3	7.4027	2	2313	2	-9	-9	-9	-9	-9
121	2	601.9	34.590	2	34.590	2	6.999	6.941	27.104	0.026	0.0	2	41.4	2	2.98	2	54.4	2	0.007	2	0.002	2	28.27	2	1750	2	2289.1	2	7.4018	2	2316	2	-9	-9	-9	-9	-9
120	2	697.6	34.566	2	34.565	2	6.378	6.314	27.169	0.024	0.0	2	42.3	2	2.95	2	59.3	2	0.005	2	0.000	2	38.91	2	1716	2	2291.4	2	7.4147	2	2322	2	-9	-9	-9	-9	-9
119	2	797.4	34.558	2	34.557	2	5.668	5.599	27.253	0.023	0.0	2	43.3	2	3.02	2	69.1	2	0.005	2	-0.001	2	43.60	2	1727	2	2303.0	2	7.4135	2	2331	2	-9	-9	-9	-9	-9
118	2	898.4	34.559	2	34.558	2	5.122	5.047	27.320	0.023	0.0	2	41.9	2	3.02	2	79.6	2	0.000	2	-0.001	2	50.82	2	1711	2	2309.8	2	7.4223	2	2341	2	-9	-9	-9	-9	-9
117	2	999.0	34.558	2	34.558	2	4.576	4.496	27.382	0.019	0.0	2	41.4	2	2.97	2	91.4	2	0.001	2	0.002	2	62.92	6	1633	2	2313.2	2	7.4400	2	2354	6	-9	-9	-9	-9	-9
116	2	1099.2	34.566	2	34.566	2	4.242	4.156	27.424	0.018	0.0	2	41.7	2	2.97	2	98.1	2	-9	9	-9	9	66.15	2	-9	9	-9	9	7.4438	2	-9	9	-9	-9	-9	-9	-9
115	2	1199.9	34.580	2	34.581	2	3.837	3.746	27.478	0.017	0.0	2	41.8	2	2.97	2	107.5	2	0.001	2	0.001	2	67.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1299.6	34.590	2	34.590	2	3.485	3.389	27.521	0.018	0.0	2	41.2	2	2.94	2	114.7	2	-9	9	-9	9	76.07	2	-9	9	-9	9	7.4595	2	-9	9	-9	-9	-9	-9	-9
113	2	1399.4	34.596	2	34.596	2	3.299	3.196	27.544	0.017	0.0	2	40.9	2	2.91	2	117.6	2	-0.002	2	-0.002	2	79.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1499.6	34.601	2	34.601	2	3.141	3.032	27.564	0.015	0.0	2	40.1	2	2.90	2	124.7	2	-9	9	-9	9	-9	9	-9	9	83.10	2	-9	9	7.4724	2	-9	9	-9	-9	-9
111	2	1600.8	34.611	2	34.610	2	2.950	2.834	27.590	0.017	0.0	2	39.6	2	2.87	2	133.9	2	0.008	2	0.002	2	85.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1799.1	34.624	2	34.625	2	2.646	2.517	27.628	0.014	0.0	2	40.0	2	2.84	2	142.4	2	-9	9	-9	9	92.36	2	-9	9	-9	9	7.4881	2	-9	9	-9	-9	-9	-9	-9
109	2	2000.3	34.636	2	34.635	2	2.395	2.252	27.660	0.012	0.0	2	39.6	2	2.80	2	146.3	2	-9	9	-9	9	98.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2234.7	34.649	2	34.649	2	2.136	1.977	27.693	0.011	0.0	2	39.0	2	2.75	2	151.4	2	0.005	2	0.000	2	106.97	2	-9	9	-9	9	7.5169	2	-9	9	-9	-9	-9	-9	-9
107	2	2500.1	34.663	2	34.662	2	1.887	1.709	27.724	0.009	0.0	2	38.4	2	2.68	2	155.4	2	-9	9	-9	9	117.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2750.7	34.668	2	34.668	2	1.815	1.615	27.735	0.008	0.0	2	38.3	2	2.66	2	155.8	2	-9	9	-9	9	119.43	2	-9	9	-9	9	7.5432	2	-9	9	-9	-9	-9	-9	-9
105	2	3000.1	34.673	2	34.673	2	1.715	1.493	27.748	0.007	0.0	2	38.0	2	2.63	2	154.8	2	0.258	4	-0.002	2	126.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3252.5	34.680	2	34.680	2	1.599	1.355	27.763	0.007	0.0	2	37.9	2	2.58	2	156.1	2	-9	9	-9	9	133.70	2	-9	9	-9	9	7.5632	2	-9	9	-9	-9	-9	-9	-9
103	2	3498.8	34.685	2	34.686	2	1.498	1.232	27.777	0.006	0.0	2	36.8	2	2.55	2	156.4	2	0.002	2	-0.002	2	142.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3499.9	34.685	2	34.686	2	1.498	1.232	27.777	0.006	0.0	2	37.2	2	2.54	2	156.9	2	-9	9	-9	9	144.23	2	-9	9	-9	9	7.5815	2	-9	9	-9	-9	-9	-9	-9
101	2	3816.7	34.688	2	34.689	2	1.467	1.169	27.784	0.009	0.0	2	36.6	2	2.50	2	154.9	2	-9	9	-9	9	148.89	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 155 DATE 4/16/94 LATITUDE 3°30.0'N Btm Depth: 3930
CAST 1 LONGITUDE 110°20.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.2	34.843	2	34.845	2	27.690	27.688	22.378	0.105	0.1	2	4.4	2	0.53	2	2.9	2	1.743	2	0.953	2	202.17	6	347	2	2012.3	2	8.0161	2	2294	6	-9	-9	-9	-9	-9
135	2	24.0	34.864	2	34.868	2	27.663	27.657	22.404	0.121	0.1	2	4.5	2	0.56	2	3.0	2	1.746	2	0.954	2	202.10	2	356	2	2014.6	2	8.0138	2	2291	2	-9	-9	-9	-9	-9
134	2	49.0	34.794	2	34.818	2	18.956	18.948	24.877	0.144	0.4	2	14.2	2	1.24	2	11.2	2	1.313	2	0.668	2	121.51	2	608	2	2112.3	2	7.8119	2	2293	2	-9	-9	-9	-9	-9
133	2	73.3	34.939	2	34.937	2	15.283	15.271	25.865	0.068	0.6	2	21.0	2	1.64	2	16.6	2	1.008	2	0.513	2	74.64	2	836	2	2167.2	2	7.6914	2	2300	2	-9	-9	-9	-9	-9
132	2	99.1	34.952	2	34.950	2	14.576	14.562	26.030	0.039	0.1	2	22.8	2	1.69	2	17.8	2	0.916	2	0.477	2	70.17	2	878	2	2176.1	2	7.6744	2	2297	2	-9	-9	-9	-9	-9
131	2	124.5	34.951	2	34.948	2	14.280	14.262	26.093	0.033	0.0	2	23.0	2	1.72	2	18.3	2	0.883	6	0.444	6	69.92	2	893	2	2179.5	2	7.6677	2	2298	2	-9	-9	-9	-9	-9
130	2	149.2	34.934	2	34.933	2	13.884	13.863	26.165	0.031	0.0	2	24.7	2	1.81	2	19.4	2	0.758	2	0.399	2	60.26	2	960	2	2189.3	2	7.6404	2	2301	2	-9	-9	-9	-9	-9
129	2	174.2	34.930	2	34.927	2	13.588	13.563	26.224	0.031	0.0	2	25.9	2	1.88	2	20.2	2	0.668	6	0.343	6	55.03	2	1006	2	2196.4	2	7.6226	2	2296	2	-9	-9	-9	-9	-9
128	2	198.6	34.916	2	34.913	2	13.300	13.272	26.272	0.032	0.0	2	26.8	2	1.92	2	21.1	2	0.600	2	0.324	2	51.77	2	1036	2	2200.9	2	7.6078	2	2291	2	-9	-9	-9	-9	-9
127	2	249.3	34.872	2	34.868	2	12.663	12.629	26.368	0.035	0.0	2	29.6	2	2.14	2	24.5	2	0.420	2	0.219	2	30.24	2	1223	2	2223.5	2	7.5448	2	2293	2	-9	-9	-9	-9	-9
126	2	299.8	34.795	2	34.785	2	11.638	11.600	26.506	0.036	0.0	2	30.0	2	2.18	2	28.8	2	0.329	2	0.169	2	35.06	2	1284	2	2232.0	2	7.5243	2	2294	2	-9	-9	-9	-9	-9
125	2	350.7	34.731	2	34.730	2	10.721	10.679	26.624	0.036	0.0	2	30.1	2	2.19	2	31.2	2	0.286	2	0.150	2	48.35	2	1264	2	2231.3	2	7.5316	2	2305	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.3	34.699	2	34.697	2	9.959	9.913	26.731	0.035	0.0	2	33.7	2	2.44	2	35.8	2	0.138	2	0.071	2	29.02	6	1493	2	2255.1	2	7.4643	2	2303	2	-9	-9	-9	-9	-9
122	2	500.3	34.625	2	34.623	2	8.041	7.989	26.981	0.029	0.0	2	39.1	2	2.85	2	49.2	2	0.020	2	0.003	2	15.52	2	1796	2	2287.2	2	7.3941	2	2313	2	-9	-9	-9	-9	-9
121	2	600.9	34.605	2	34.603	2	7.341	7.282	27.068	0.025	0.0	2	40.7	2	2.90	2	54.8	2	0.009	2	0.003	2	21.31	2	1803	2	2291.8	2	7.3933	2	2313	2	-9	-9	-9	-9	-9
120	2	700.4	34.568	2	34.566	2	6.410	6.346	27.167	0.025	0.0	2	40.7	2	2.87	2	60.4	2	0.013	2	0.003	2	42.91	2	1690	2	2289.1	2	7.4199	2	-9	5	-9	-9	-9	-9	-9
119	2	800.6	34.561	2	34.561	2	5.833	5.763	27.236	0.025	0.0	2	41.8	2	2.97	2	70.0	2	0.002	2	-0.002	2	40.74	2	1752	2	2302.1	2	7.4088	2	2328	2	-9	-9	-9	-9	-9
118	2	901.5	34.553	2	34.551	2	5.207	5.131	27.305	0.023	0.0	2	41.0	2	2.95	2	81.1	2	-9	9	-9	9	54.67	2	1660	2	2304.1	2	7.4291	2	2336	2	-9	-9	-9	-9	-9
117	2	1001.0	34.558	2	34.558	2	4.710	4.629	27.367	0.020	0.0	2	41.7	2	2.96	2	91.4	2	-9	9	-9	9	61.64	2	1635	2	2311.0	2	7.4384	2	2349	6	-9	-9	-9	-9	-9
116	2	1099.2	34.566	2	34.568	2	4.300	4.214	27.419	0.019	0.0	2	41.6	2	2.95	2	98.6	2	-9	9	-9	9	65.53	2	1622	2	2320.2	2	7.4423	2	2358	2	-9	-9	-9	-9	-9
115	2	1203.1	34.578	2	34.577	2	3.843	3.751	27.476	0.019	0.0	2	41.4	2	2.96	2	107.6	2	-9	9	-9	9	70.35	2	1608	2	2329.4	2	7.4501	2	2372	2	-9	-9	-9	-9	-9
114	3	1299.9	34.589	2	34.587	2	3.564	3.467	27.513	0.017	0.0	2	41.7	2	2.80	2	113.7	2	-9	9	-9	9	71.65	2	1598	2	2334.3	2	7.4522	2	2383	2	-9	-9	-9	-9	-9
113	2	1398.6	34.598	2	34.598	2	3.328	3.225	27.543	0.017	0.0	2	41.6	2	2.94	2	119.3	2	-9	9	-9	9	74.41	2	-9	9	2342.0	2	-9	9	2385	2	-9	-9	-9	-9	-9
112	2	1599.6	34.616	2	34.615	2	2.867	2.753	27.601	0.015	0.0	2	40.0	2	2.91	2	133.4	2	-9	9	-9	9	82.27	2	1534	2	2348.7	2	7.4690	2	2395	2	-9	-9	-9	-9	-9
111	2	1801.5	34.629	2	34.629	2	2.544	2.417	27.641	0.013	0.0	2	39.6	2	2.83	2	143.5	2	-9	9	-9	9	92.69	6	1475	2	2351.2	2	7.4895	2	2403	2	-9	-9	-9	-9	-9
110	2	1999.3	34.638	2	34.637	2	2.342	2.200	27.666	0.012	0.0	2	39.3	2	2.76	2	145.5	2	-9	9	-9	9	100.46	2	1421	2	2349.8	2	7.5037	2	2412	2	-9	-9	-9	-9	-9
109	2	2246.3	34.650	2	34.649	2	2.117	1.958	27.695	0.010	0.0	2	38.6	2	2.72	2	149.1	2	-9	9	-9	9	108.89	2	1377	2	2350.9	2	7.5183	2	2424	2	-9	-9	-9	-9	-9
108	2	2498.0	34.663	2	34.663	2	1.878	1.700	27.725	0.010	0.0	2	38.2	2	2.67	2	154.9	2	-9	9	-9	9	116.26	2	1326	2	2352.7	2	7.5344	2	2422	2	-9	-9	-9	-9	-9
107	2	2749.4	34.668	2	34.668	2	1.821	1.621	27.735	0.008	0.0	2	38.4	2	2.66	2	155.5	2	-9	9	-9	9	117.60	2	1321	2	2354.7	2	7.5376	2	2431	2	-9	-9	-9	-9	-9
106	2	2998.3	34.672	2	34.672	2	1.752	1.530	27.745	0.007	0.0	2	38.4	2	2.62	2	153.0	2	-9	9	-9	9	-9	1	1287	2	2353.0	2	7.5469	2	2431	2	-9	-9	-9	-9	-9
105	2	3247.5	34.680	2	34.678	2	1.601	1.358	27.763	0.006	0.0	2	37.7	2	2.58	2	150.7	2	0.003	2	0.002	2	134.66	2	1227	2	2345.6	2	7.5652	2	2429	2	-9	-9	-9	-9	-9
104	2	3498.2	34.686	2	34.686	2	1.477	1.211	27.779	0.006	0.0	2	36.9	2	2.52	2	150.8	2	-9	9	-9	9	144.99	2	1169	2	2339.1	2	7.5852	2	2433	2	-9	-9	-9	-9	-9
103	2	3748.5	34.689	2	34.690	2	1.463	1.172	27.784	0.008	0.0	2	36.0	2	2.50	2	155.0	2	-9	9	-9	9	148.36	2	1145	2	2337.3	2	7.5938	2	2434	2	-9	-9	-9	-9	-9
102	3	3748.2	34.689	2	34.688	2	1.463	1.172	27.784	0.008	0.0	2	36.2	2	2.48	2	156.2	2	-9	9	-9	9	148.77	2	1144	2	2337.5	2	-9	9	2436	2	-9	-9	-9	-9	-9
101	2	3973.0	34.688	2	34.689	2	1.487	1.171	27.783	0.009	0.0	2	36.5	2	2.50	2	156.6	2	-9	9	-9	9	144.94	2	1138	2	2337.6	2	7.5902	2	2436	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 156 DATE 4/16/94 LATITUDE 4°0.1'N Btm Depth: 3868
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.2	34.450	2	34.452	2	27.964	27.961	21.994	0.117	0.0	2	1.5	2	0.35	2	1.7	2	1.855	2	0.948	2	205.51	6	306	2	1966.7	2	8.0625	2	2264	2	1.60	-9	-9	0.206	0.087
135	2	24.7	34.405	2	34.424	2	25.979	25.974	22.593	0.140	0.0	2	1.0	2	0.37	2	2.5	2	1.760	2	0.933	2	199.49	2	-9	9	-9	9	-9	1	-9	9	1.50	-9	-9	0.298	0.167
134	2	50.7	34.717	2	34.723	2	19.717	19.707	24.622	0.087	0.7	2	13.5	2	1.19	2	10.4	2	1.481	2	0.777	2	115.85	2	594	2	2102.5	2	-9	1	2279	2	0.60	-9	-9	0.197	0.194
133	2	76.4	34.906	2	34.924	2	15.960	15.948	25.687	0.065	0.8	2	21.7	2	1.66	2	15.9	2	1.019	2	0.518	2	72.60	2	-9	9	-9	9	7.6896	2	-9	9	0.40	-9	-9	0.220	0.261
132	2	99.7	34.947	2	34.947	2	14.494	14.480	26.044	0.040	0.0	2	24.6	2	1.78	2	17.5	2	0.886	6	0.446	6	61.92	2	905	2	2183.7	2	7.6557	2	2293	2	0.30	-9	-9	0.123	0.183
131	2	124.5	34.937	2	34.937	2	13.960	13.942	26.150	0.034	0.0	2	25.9	2	1.85	2	18.9	2	0.747	2	0.384	2	55.55	2	-9	9	-9	9	7.6324	2	-9	9	0.20	-9	-9	0.056	0.096
130	2	148.5	34.931	2	34.930	2	13.687	13.666	26.203	0.032	0.0	2	26.6	2	1.91	2	19.8	2	0.682	2	0.348	2	52.16	2	-9	9	2197.5	2	7.6207	2	2294	2	0.30	-9	-9	0.021	0.046
129	2	168.5	34.920	2	34.919	2	13.462	13.439	26.242	0.031	0.0	2	26.9	2	1.98	2	21.3	2	0.613	2	0.319	2	46.94	2	-9	9	-9	9	7.6037	2	-9	9	0.20	-9	-9	0.012	0.033
128	2	197.6	34.902	2	34.901	2	13.133	13.105	26.296	0.033	0.0	2	28.1	2	2.04	2	22.8	2	0.549	2	0.300	2	41.82	2	1105	2	2209.9	2	7.5809	2	2296	2	0.20	-9	-9	0.005	0.024
127	2	249.6	34.854	2	34.853	2	12.449	12.416	26.395	0.037	0.0	2	30.9	2	2.19	2	25.7	2	0.384	2	0.206	2	25.52	2	-9	9	2229.5	2	7.5286	2	2293	2	0.10	-9	-9	-9	-9
126	2	302.6	34.810	2	34.808	2	11.792	11.753	26.488	0.036	0.0	2	32.0	2	2.28	2	27.9	2	0.311	6	0.161	2	22.75	2	1349	2	2237.5	2	7.5046	2	2298	2	0.00	-9	-9	-9	-9
125	2	350.4	34.749	2	34.750	2	10.952	10.909	26.596	0.036	0.0	2	30.2	2	2.15	2	28.7	2	0.337	2	0.179	2	54.19	2	-9	9	-9	9	7.5540	3	-9	9	0.30	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.8	34.712	2	34.713	2	10.253	10.206	26.692	0.033	0.0	2	33.2	2	2.37	2	32.5	2	0.184	2	0.096	2	34.88	2	1407	2	2244.1	2	7.4904	2	2299	2	0.10	-9	-9	-9	-9
122	2	498.8	34.642	2	34.643	2	8.428	8.375	26.936	0.031	0.0	2	38.8	2	2.88	2	46.1	2	0.021	6	0.007	6	8.02	2	1810	2	2287.8	2	7.3883	3	2306	2	-0.10	-9	-9	-9	-9
121	2	601.6	34.592	2	34.590	2	7.322	7.263	27.060	0.027	0.0	2	39.9	2	2.80	2	49.1	2	0.019	2	0.011	2	39.95	2	1637	2	2275.0	2	7.4344	2	2309	2	0.10	-9	-9	-9	-9
120	2	699.3	34.564	2	34.563	2	6.566	6.501	27.143	0.025	0.0	2	40.6	2	2.85	2	55.1	2	0.019	2	0.003	2	49.78	2	1615	2	2278.9	2	7.4404	2	2319	2	0.20	-9	-9	-9	-9
119	2	801.7	34.556	2	34.557	2	6.010	5.938	27.210	0.026	0.0	2	42.1	2	2.91	2	62.9	2	0.002	2	-0.001	2	49.20	2	1660	2	2290.5	2	7.4294	2	2325	2	-0.40	-9	-9	-9	-9
118	2	901.7	34.552	2	34.552	2	5.372	5.294	27.285	0.023	0.0	2	42.8	2	2.97	2	73.4	2	0.000	2	-0.002	2	50.79	2	1680	2	2301.6	2	7.4248	2	2334	2	0.00	-9	-9	-9	-9
117	2	1001.9	34.555	2	34.555	2	4.847	4.764	27.350	0.022	0.0	2	43.1	2	3.07	2	85.4	2	0.003	2	0.001	2	53.18	2	1696	2	2313.7	2	7.4236	2	2348	2	0.00	-9	-9	-9	-9
116	2	1100.7	34.564	2	34.563	2	4.473	4.385	27.398	0.022	0.0	2	43.1	2	3.08	2	97.1	2	-9	9	-9	9	53.84	2	-9	9	-9	9	7.4219	2	-9	9	0.00	-9	-9	-9	-9
115	2	1199.7	34.575	2	34.575	2	4.015	3.922	27.456	0.019	0.0	2	42.8	2	3.08	2	107.6	2	0.014	2	0.001	2	59.02	2	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
114	2	1301.3	34.583	2	34.583	2	3.692	3.593	27.496	0.019	0.0	2	42.2	2	3.02	2	112.9	2	-9	9	-9	9	67.25	2	-9	9	-9	9	7.4452	2	-9	9	-0.10	-9	-9	-9	-9
113	2	1400.4	34.593	2	34.593	2	3.426	3.322	27.530	0.017	0.0	2	42.0	2	2.96	2	117.5	2	0.002	2	0.000	2	71.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1600.9	34.614	2	34.614	2	2.941	2.826	27.593	0.018	0.0	2	41.4	2	2.96	2	129.8	2	-9	9	-9	9	80.19	2	-9	9	-9	9	7.4669	2	-9	9	-0.10	-9	-9	-9	-9
111	2	1802.0	34.629	2	34.630	2	2.561	2.433	27.639	0.015	0.0	2	40.9	2	2.89	2	135.6	2	0.004	2	-0.002	2	90.56	6	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
110	2	1999.5	34.640	2	34.640	2	2.320	2.179	27.669	0.013	0.0	2	40.2	2	2.84	2	141.9	2	-9	9	-9	9	98.45	2	-9	9	-9	9	7.5002	2	-9	9	-0.10	-9	-9	-9	-9
109	2	2239.9	34.653	2	34.653	2	2.076	1.917	27.700	0.011	0.0	2	39.5	2	2.77	2	150.4	2	0.004	2	0.007	2	108.75	2	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
108	2	2501.0	34.664	2	34.664	2	1.876	1.698	27.725	0.010	0.0	2	38.8	2	2.69	2	156.2	2	-9	9	-9	9	115.23	2	-9	9	-9	9	7.5339	2	-9	9	-0.10	-9	-9	-9	-9
107	2	2751.3	34.668	2	34.668	2	1.818	1.617	27.735	0.009	0.0	2	38.8	2	2.68	2	157.2	2	-9	9	-9	9	115.40	2	-9	9	-9	9	-9	9	-9	9	-0.10	-9	-9	-9	-9
106	2	2998.7	34.672	2	34.672	2	1.763	1.540	27.744	0.008	0.0	2	37.0	2	2.54	2	155.3	2	0.008	2	-0.002	2	120.74	2	-9	9	-9	9	7.5469	2	-9	9	0.00	-9	-9	-9	-9
105	2	3251.7	34.679	2	34.678	2	1.617	1.373	27.762	0.007	0.0	2	37.6	2	2.59	2	154.7	2	-9	9	-9	9	133.20	2	-9	9	-9	9	-9	9	-9	9	0.00	-9	-9	-9	-9
104	2	3499.9	34.686	2	34.686	2	1.494	1.228	27.777	0.007	0.0	2	36.7	2	2.53	2	153.4	2	-9	9	-9	9	143.23	2	-9	9	-9	9	7.5822	2	-9	9	0.10	-9	-9	-9	-9
103	2	3750.4	34.688	2	34.690	2	1.465	1.174	27.783	0.008	0.0	2	36.5	2	2.52	2	151.8	2	0.002	2	0.003	2	148.21	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3750.8	34.688	2	34.688	2	1.465	1.174	27.783	0.008	0.0	2	36.2	2	2.49	2	151.0	2	-9	9	-9	9	148.35	2	-9	9	-9	9	7.5912	2	-9	9	0.10	-9	-9	-9	-9
101	2	3902.1	34.689	2	34.689	2	1.477	1.169	27.784	0.009	0.0	2	36.0	2	2.51	2	151.0	2	0.003	2	0.012	2	149.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 157 DATE 4/16/94 LATITUDE 4°30.0'N Btm Depth: 3973
CAST 3 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	9.8	33.891	2	33.892	2	28.666	28.663	21.344	0.075	0.0	2	0.1	2	0.16	2	1.5	2	1.719	2	0.945	2	201.27	2	267	2	1908.8	2	8.1102	2	2225	6	-9	-9	-9	0.149	0.055
335	2	25.5	33.984	2	33.963	2	28.415	28.409	21.497	0.095	0.0	2	0.0	2	0.15	2	1.6	2	1.744	2	0.960	2	204.22	2	-9	9	-9	9	8.1124	2	-9	9	-9	-9	-9	0.208	0.083
334	2	49.5	34.689	2	34.694	2	21.749	21.740	24.054	0.100	0.7	2	9.4	2	0.96	2	7.1	2	-9	9	-9	9	145.34	2	-9	9	-9	9	7.8927	2	-9	9	-9	-9	-9	0.451	0.340
333	2	75.4	34.916	2	34.911	2	15.353	15.341	25.831	0.061	0.6	2	22.2	2	1.71	2	16.3	2	1.003	6	0.503	6	72.52	2	-9	9	-9	9	7.6866	2	-9	9	-9	-9	-9	0.233	0.304
332	2	99.9	34.950	2	34.949	2	14.446	14.431	26.057	0.045	0.0	2	24.1	2	1.76	2	17.4	2	-9	9	-9	9	67.84	2	-9	9	-9	9	7.6688	2	-9	9	-9	-9	-9	0.152	0.210
331	2	125.6	34.940	2	34.938	2	13.820	13.802	26.182	0.038	0.0	2	25.3	2	1.86	2	19.2	2	0.736	2	0.381	2	60.76	6	-9	9	-9	9	7.6390	2	-9	9	-9	49.2	5.0	0.032	0.051
330	2	149.8	34.921	2	34.922	2	13.417	13.396	26.251	0.035	0.0	2	26.7	2	1.92	2	20.6	2	-9	9	-9	9	52.96	2	-9	9	-9	9	7.6162	2	-9	9	-9	-9	-9	0.011	0.046
329	2	175.5	34.904	2	34.902	2	13.102	13.077	26.303	0.033	0.0	2	28.3	2	2.04	2	22.0	2	0.540	2	0.280	2	43.42	2	-9	9	-9	9	7.5852	2	-9	9	-9	-9	-9	0.008	0.028
328	2	201.6	34.880	2	34.878	2	12.744	12.716	26.357	0.034	0.0	2	28.7	2	2.09	2	22.9	2	-9	9	-9	9	40.20	2	-9	9	-9	9	7.5677	2	-9	9	-9	48.3	4.0	0.006	0.027
327	2	250.6	34.825	2	34.820	2	11.966	11.933	26.466	0.034	0.0	2	30.6	2	2.23	2	26.0	2	0.340	2	0.175	2	32.89	2	-9	9	-9	9	7.5312	2	-9	9	-9	-9	-9	-9	-9
326	2	300.4	34.731	2	34.731	2	10.990	10.953	26.575	0.034	0.0	2	27.9	2	2.05	2	27.6	2	-9	9	-9	9	74.16	2	-9	9	-9	9	7.5960	3	-9	9	-9	44.8	2.8	-9	-9
325	2	350.8	34.719	2	34.719	2	10.407	10.366	26.669	0.036	0.0	2	32.2	2	2.31	2	30.8	2	0.218	6	0.113	6	43.32	2	-9	9	-9	9	7.5128	2	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	400.3	34.687	2	34.686	2	9.715	9.669	26.764	0.035	0.0	2	34.3	2	2.50	2	34.5	2	0.125	2	0.066	2	31.23	2	-9	9	-9	9	7.4684	2	-9	9	-9	-9	2.2	-9	-9
322	2	500.5	34.636	2	34.636	2	8.414	8.361	26.934	0.033	0.0	2	38.6	2	2.96	2	46.1	2	-9	9	-9	9	5.95	2	-9	9	-9	9	7.3829	2	-9	9	-9	48.8	-9	-9	-9
321	2	601.1	34.592	2	34.591	2	7.272	7.213	27.068	0.030	0.0	2	40.9	2	3.09	2	52.9	2	0.007	2	0.003	2	18.38	2	-9	9	-9	9	7.3862	2	-9	9	-9	-9	-9	-9	-9
320	2	698.4	34.565	2	34.565	2	6.397	6.333	27.166	0.026	0.0	2	42.0	2	3.09	2	61.5	2	-9	9	-9	9	32.39	2	-9	9	-9	9	7.4008	2	-9	9	-9	-9	-9	-9	-9
319	2	800.7	34.553	2	34.553	2	5.768	5.698	27.237	0.025	0.0	2	41.5	2	3.07	2	70.9	2	0.001	2	0.000	2	45.50	2	-9	9	-9	9	7.4191	2	-9	9	-9	-9	-9	-9	-9
318	2	899.4	34.552	2	34.552	2	5.299	5.223	27.294	0.024	0.0	2	42.3	2	3.08	2	78.5	2	-9	9	-9	9	47.37	2	-9	9	-9	9	7.4161	2	-9	9	-9	-9	-9	-9	-9
317	2	1001.1	34.561	2	34.561	2	4.873	4.791	27.351	0.024	0.0	2	43.5	2	3.16	2	88.8	2	0.003	2	0.002	2	39.05	2	-9	9	-9	9	7.3963	2	-9	9	-9	37.4	2.3	-9	-9
316	2	1100.0	34.567	2	34.567	2	4.397	4.310	27.409	0.021	0.0	2	43.1	2	3.03	2	93.9	2	-9	9	-9	9	51.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
315	2	1199.7	34.578	2	34.577	2	3.903	3.811	27.470	0.021	0.0	2	42.9	2	3.03	2	103.8	2	-9	9	-9	9	59.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1298.3	34.587	2	34.587	2	3.603	3.506	27.507	0.020	0.0	2	41.8	2	3.01	2	113.7	2	-9	9	-9	9	65.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	2	1400.5	34.595	2	34.596	2	3.360	3.256	27.538	0.020	0.0	2	41.4	2	2.98	2	122.0	2	-9	9	-9	9	69.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
312	2	1597.6	34.613	2	34.614	2	2.907	2.792	27.595	0.017	0.0	2	41.1	2	2.91	2	131.7	2	-9	9	-9	9	78.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
311	2	1801.3	34.628	2	34.628	2	2.572	2.444	27.637	0.015	0.0	2	40.1	2	2.85	2	137.5	2	-9	9	-9	9	90.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	2000.6	34.639	2	34.639	2	2.346	2.204	27.666	0.013	0.0	2	39.6	2	2.80	2	141.0	2	-9	9	-9	9	98.09	2	-9	9	-9	9	-9	9	-9	9	-9	49.3	-9	-9	-9
309	2	2251.3	34.656	2	34.656	2	2.010	1.851	27.708	0.010	0.0	2	39.2	2	2.71	2	147.5	2	-9	9	-9	9	109.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2500.0	34.663	2	34.664	2	1.877	1.699	27.725	0.012	0.0	2	38.5	2	2.70	2	151.5	2	-9	9	-9	9	113.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2748.2	34.668	2	34.667	2	1.824	1.624	27.735	0.009	0.0	2	38.4	2	2.67	2	152.7	2	-9	9	-9	9	115.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	2998.7	34.673	2	34.672	2	1.742	1.520	27.746	0.008	0.0	2	37.8	2	2.65	2	152.7	2	-9	9	-9	9	119.57	2	-9	9	-9	9	-9	9	-9	9	-9	37.8	-9	-9	-9
305	2	3249.4	34.681	2	34.681	2	1.593	1.350	27.765	0.007	0.0	2	37.5	2	2.61	2	152.6	2	-9	9	-9	9	133.26	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3499.9	34.686	2	34.686	2	1.504	1.238	27.777	0.008	0.0	2	36.9	2	2.55	2	153.4	2	-9	9	-9	9	142.05	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3750.4	34.689	2	34.690	2	1.460	1.169	27.784	0.008	0.0	2	36.3	2	2.51	2	155.5	2	-9	9	-9	9	152.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	3749.5	34.689	2	34.689	2	1.460	1.169	27.784	0.008	0.0	2	36.6	2	2.52	2	156.4	2	-9	9	-9	9	148.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	2	3990.0	34.689	2	34.689	2	1.483	1.166	27.784	0.008	0.0	2	36.6	2	2.50	2	154.6	2	-9	9	-9	9	149.32	6	-9	9	-9	9	-9	9	-9	9	-9	42.6	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 158 DATE 4/17/94 LATITUDE 4°59.7'N Btm Depth: 4219
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	33.692	2	33.697	2	28.988	28.985	21.087	0.070	0.0	2	0.1	2	0.15	2	2.1	2	1.703	2	0.961	2	198.82	6	256	2	1893.1	2	8.1165	2	2218	6	1.50	-9	-9	-9	-9
135	2	23.1	33.701	2	33.707	2	28.872	28.867	21.134	0.076	0.0	2	0.1	2	0.12	2	1.4	2	1.709	6	0.944	6	198.99	2	-9	9	-9	9	8.1156	2	-9	9	-9	-9	-9	-9	-9
134	2	49.4	34.238	2	34.256	2	24.936	24.925	22.788	0.110	0.2	2	5.3	2	0.65	2	3.7	2	-9	1	-9	1	158.28	2	379	2	2002.8	2	7.9773	2	2264	2	-9	-9	-9	-9	-9
133	2	75.1	34.686	2	34.690	2	17.241	17.229	25.218	0.080	0.9	2	19.6	2	1.54	2	14.4	2	1.415	6	0.732	6	73.25	2	-9	9	-9	9	7.7096	2	-9	9	-9	-9	-9	-9	-9
132	3	101.4	34.677	2	34.677	2	13.775	13.760	25.987	0.046	0.0	2	27.7	2	2.05	2	22.6	2	0.776	2	0.398	2	41.92	2	1103	3	2199.0	2	-9	9	2289	2	-9	-9	-9	-9	-9
131	2	123.6	34.679	2	34.680	2	12.714	12.698	26.205	0.036	0.0	2	27.7	2	2.03	2	25.5	2	0.695	2	0.351	2	54.74	2	-9	9	-9	9	7.5853	2	-9	9	-9	-9	-9	-9	-9
130	2	146.8	34.638	2	34.637	2	12.009	11.990	26.310	0.034	0.0	2	24.4	2	1.78	2	26.2	2	0.840	2	0.416	2	96.38	2	892	2	2176.3	2	7.6621	2	2291	2	-9	-9	-9	-9	-9
129	2	199.7	34.737	2	34.734	2	11.602	11.577	26.465	0.031	0.0	2	32.1	2	2.40	2	28.5	2	0.329	2	0.175	2	30.00	2	1315	2	2232.1	3	7.5118	2	2296	2	-9	-9	-9	-9	-9
128	3	250.3	34.673	2	34.675	2	10.646	10.616	26.590	0.031	0.0	2	28.2	2	1.98	2	29.3	2	0.479	2	0.250	2	85.76	2	1030	3	2201.6	3	-9	9	2299	2	-9	-9	-9	-9	-9
127	2	299.7	34.703	2	34.704	2	10.372	10.337	26.662	0.036	0.0	2	31.9	2	2.22	2	30.5	2	0.259	6	0.138	6	51.73	2	1256	2	2228.6	3	7.5317	2	2306	2	-9	-9	-9	-9	-9
126	2	348.8	34.696	2	34.697	2	9.954	9.913	26.730	0.035	0.0	2	34.1	2	2.44	2	32.7	2	0.157	2	0.083	2	37.86	2	-9	9	-9	9	7.4894	2	-9	9	-9	-9	-9	-9	-9
125	2	399.2	34.677	2	34.676	2	9.503	9.457	26.791	0.035	0.0	2	36.0	2	2.58	2	35.7	2	0.086	2	0.047	2	26.47	2	1537	2	2258.7	2	7.4539	2	2312	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	499.8	34.629	2	34.628	2	8.298	8.246	26.946	0.032	0.0	2	39.2	2	2.97	2	46.8	2	0.017	2	0.005	2	4.63	2	1858	2	2293.0	2	7.3773	2	2311	2	-9	-9	-9	-9	-9
122	2	601.5	34.588	2	34.588	2	7.192	7.133	27.076	0.029	0.0	2	42.0	2	3.13	2	55.7	2	0.305	4	0.003	2	6.86	2	1947	2	2306.1	2	7.3633	2	2323	2	-9	-9	-9	-9	-9
121	2	701.6	34.565	2	34.566	2	6.404	6.339	27.165	0.027	0.0	2	43.3	2	3.14	2	62.4	2	-9	9	-9	9	20.86	2	1877	2	2306.7	2	7.3780	2	2333	2	-9	-9	-9	-9	-9
120	2	801.6	34.560	2	34.560	2	5.782	5.712	27.241	0.027	0.0	2	44.3	2	3.14	2	73.1	2	0.000	2	-0.001	2	25.12	2	1892	2	2314.6	2	7.3785	2	2336	2	-9	-9	-9	-9	-9
119	2	900.0	34.557	2	34.558	2	5.181	5.105	27.312	0.025	0.0	2	44.3	2	3.15	2	82.9	2	-9	9	-9	9	33.62	2	1852	2	2322.3	2	7.3862	2	2345	2	-9	-9	-9	-9	-9
118	2	999.7	34.563	2	34.564	2	4.716	4.634	27.371	0.024	0.0	2	43.9	2	3.10	2	90.7	2	0.003	2	0.000	2	43.39	2	1789	2	2326.3	2	7.4041	2	2356	6	-9	-9	-9	-9	-9
117	2	1200.7	34.578	2	34.577	2	3.910	3.818	27.469	0.022	0.0	2	42.8	2	3.05	2	107.7	2	-9	9	-9	9	58.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1399.4	34.594	2	34.595	2	3.385	3.281	27.535	0.019	0.0	2	42.2	2	3.01	2	121.5	2	-9	9	-9	9	67.90	2	-9	9	-9	9	7.4453	2	-9	9	-9	-9	-9	-9	-9
115	2	1600.7	34.611	2	34.612	2	2.926	2.811	27.592	0.017	0.0	2	41.9	2	2.96	2	132.0	2	-9	9	-9	9	76.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1798.1	34.626	2	34.625	2	2.598	2.470	27.633	0.015	0.0	2	41.1	2	2.92	2	140.2	2	-9	9	-9	9	85.79	2	-9	9	-9	9	7.4753	2	-9	9	-9	-9	-9	-9	-9
113	2	1999.4	34.639	2	34.639	2	2.324	2.183	27.668	0.013	0.0	2	40.4	2	2.83	2	144.7	2	-9	9	-9	9	94.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	2197.6	34.652	2	34.652	2	2.083	1.929	27.699	0.011	0.0	2	39.7	2	2.76	2	148.3	2	-9	9	-9	9	105.43	2	-9	9	-9	9	7.5137	2	-9	9	-9	-9	-9	-9	-9
111	2	2398.7	34.660	2	34.660	2	1.938	1.768	27.718	0.011	0.0	2	39.0	2	2.75	2	151.8	2	-9	9	-9	9	110.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2601.8	34.666	2	34.666	2	1.854	1.667	27.730	0.009	0.0	2	38.9	2	2.72	2	155.9	2	-9	9	-9	9	111.05	2	-9	9	-9	9	7.5266	2	-9	9	-9	-9	-9	-9	-9
109	2	2798.8	34.669	2	34.669	2	1.818	1.613	27.736	0.010	0.0	2	38.6	2	2.71	2	157.2	2	-9	9	-9	9	112.57	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2999.3	34.672	2	34.672	2	1.756	1.533	27.745	0.008	0.0	2	38.3	2	2.67	2	156.0	2	-9	9	-9	9	120.36	2	-9	9	-9	9	7.5431	2	-9	9	-9	-9	-9	-9	-9
107	2	3200.2	34.679	2	34.678	2	1.627	1.388	27.761	0.007	0.0	2	37.7	2	2.64	2	154.2	2	-9	9	-9	9	130.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	3398.6	34.683	2	34.683	2	1.556	1.298	27.770	0.008	0.0	2	37.4	2	2.59	2	153.8	2	-9	9	-9	9	136.64	2	-9	9	-9	9	7.5725	2	-9	9	-9	-9	-9	-9	-9
105	2	3599.0	34.685	2	34.688	2	1.523	1.246	27.776	0.008	0.0	2	37.3	2	2.56	2	152.3	2	-9	9	-9	9	141.46	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3701.1	34.686	2	34.686	2	1.512	1.224	27.778	0.007	0.0	2	37.0	2	2.55	2	151.7	2	-9	9	-9	9	143.38	2	-9	9	-9	9	7.5836	2	-9	9	-9	-9	-9	-9	-9
103	2	3997.2	34.689	2	34.689	2	1.495	1.177	27.783	0.008	0.0	2	36.6	2	2.53	2	153.9	2	-9	9	-9	9	147.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3998.2	34.688	2	34.687	2	1.495	1.177	27.783	0.008	0.0	2	36.9	2	2.51	2	153.2	2	-9	9	-9	9	148.64	2	-9	9	-9	9	7.5910	2	-9	9	-9	-9	-9	-9	-9
101	2	4265.6	34.689	2	34.688	2	1.522	1.173	27.784	0.008	0.0	2	36.6	2	2.52	2	153.6	2	-9	9	-9	9	148.52	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 159 DATE 4/17/94 LATITUDE 5°30.0'N Btm Depth: 3932
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	23.2	33.761	2	33.769	2	28.965	28.960	21.147	0.078	0.0	2	0.1	2	0.17	2	1.9	2	1.709	2	0.951	2	199.68	2	265	2	1904.0	2	8.1094	2	2227	2	-9	85.1	5.2	-9	-9
135	2	48.5	34.104	2	34.117	2	28.419	28.407	21.588	0.077	0.0	2	0.0	2	0.16	2	2.7	2	1.744	2	0.947	2	202.08	2	266	2	1909.4	2	8.1214	2	2240	2	-9	72.2	4.7	-9	-9
134	2	75.4	34.671	2	34.673	2	17.774	17.761	25.079	0.077	0.6	2	24.4	2	2.03	2	15.2	2	0.614	4	0.317	4	38.78	2	986	2	2177.3	3	7.6251	2	2280	2	-9	58.8	4.6	-9	-9
133	2	97.5	34.774	2	34.777	2	14.337	14.323	25.944	0.053	0.0	2	30.7	2	2.39	2	22.2	2	0.451	2	0.241	2	11.15	2	1310	2	2223.3	2	7.5142	2	2293	2	-9	47.8	4.0	-9	-9
132	2	125.4	34.771	2	34.773	2	12.636	12.619	26.291	0.036	0.0	2	31.4	2	2.29	2	25.7	2	0.454	2	0.242	2	20.70	2	1326	2	2227.1	2	7.5142	2	2291	2	-9	47.8	3.4	-9	-9
131	2	150.1	34.771	2	34.772	2	12.077	12.057	26.400	0.031	0.0	2	31.7	2	2.33	2	27.5	2	0.374	2	0.204	2	22.78	2	1340	2	2231.7	2	7.5077	2	2296	2	-9	-9	-9	-9	-9
130	2	174.2	34.751	2	34.751	2	11.589	11.567	26.477	0.034	0.0	2	31.7	2	2.33	2	29.8	2	0.326	6	0.170	6	27.88	2	1338	2	2234.5	2	7.5087	2	2297	2	-9	46.6	-9	-9	-9
129	2	199.8	34.743	2	34.743	2	11.122	11.097	26.558	0.034	0.0	2	31.9	2	2.31	2	29.8	2	0.278	2	0.153	2	33.54	2	1335	2	2234.6	2	7.5102	2	2299	2	-9	-9	-9	-9	-9
128	2	249.1	34.722	2	34.722	2	10.543	10.513	26.646	0.038	0.0	2	32.7	2	2.34	2	30.9	2	0.199	2	0.107	2	34.29	2	1382	2	2241.1	2	7.4954	2	2306	2	-9	45.6	2.6	-9	-9
127	2	300.4	34.702	2	34.701	2	10.082	10.047	26.711	0.039	0.0	2	33.5	2	2.38	2	32.7	2	0.159	2	0.083	2	34.83	6	1416	2	2244.9	2	7.4855	2	2305	2	-9	-9	-9	-9	-9
126	3	349.3	34.682	2	34.681	2	9.624	9.584	26.774	0.038	0.0	2	35.5	2	2.54	2	35.7	2	0.098	6	0.050	6	25.65	2	1540	2	2257.1	2	7.4544	2	2303	2	-9	-9	-9	-9	-9
125	2	399.7	34.667	2	34.666	2	9.232	9.187	26.827	0.036	0.0	2	36.5	2	2.71	2	40.2	2	0.046	2	0.026	2	11.88	2	1703	6	2273.1	2	-9	9	2307	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	501.8	34.616	2	34.614	2	8.044	7.992	26.973	0.032	0.0	2	38.3	2	3.05	2	51.9	2	0.008	2	0.004	2	2.89	6	-9	9	2298.0	2	-9	9	2321	2	-9	47.6	-9	-9	-9
122	2	598.9	34.581	2	34.579	2	6.904	6.847	27.110	0.029	0.0	2	42.1	2	3.09	2	58.2	2	0.005	2	0.000	2	16.24	2	1880	2	2301.6	2	7.3772	2	2322	2	-9	40.2	-9	-9	-9
121	2	699.9	34.562	2	34.562	2	6.149	6.086	27.195	0.027	0.0	2	43.1	2	3.14	2	67.1	2	0.010	2	0.002	2	19.53	2	1909	2	2313.7	3	7.3716	2	2343	3	-9	-9	-9	-9	-9
120	2	800.5	34.558	2	34.559	2	5.483	5.415	27.276	0.028	0.0	2	44.1	2	3.14	2	77.5	2	0.005	2	-0.002	2	28.71	2	1880	2	2321.4	3	7.3798	2	2333	2	-9	-9	-9	-9	-9
119	2	900.4	34.557	2	34.558	2	5.054	4.979	27.327	0.025	0.0	2	44.7	2	3.12	2	84.0	2	0.010	2	0.004	2	35.29	2	1832	2	2325.4	3	7.3897	2	2344	2	-9	-9	-9	-9	-9
118	2	1001.9	34.564	2	34.565	2	4.496	4.416	27.395	0.024	0.0	2	44.3	2	3.15	2	94.6	2	0.004	2	0.002	2	44.75	2	1773	2	2355.1	3	7.4042	2	-9	5	-9	-9	-9	-9	-9
117	2	1098.9	34.573	2	34.574	2	4.184	4.099	27.436	0.023	0.0	2	43.6	2	3.08	2	101.0	2	0.003	2	0.002	2	52.57	2	1722	2	2335.6	3	7.4176	2	2364	2	-9	39.3	-9	-9	-9
116	2	1200.0	34.583	2	34.583	2	3.872	3.780	27.477	0.022	0.0	2	43.5	2	3.04	2	107.6	2	-9	9	-9	9	57.28	2	1695	2	2340.9	3	7.4262	2	2374	2	-9	-9	-9	-9	-9
115	2	1301.2	34.588	2	34.588	2	3.585	3.487	27.510	0.020	0.0	2	42.8	2	3.02	2	114.8	2	0.006	2	0.002	2	63.75	6	1657	2	2343.2	3	7.4380	2	2374	2	-9	-9	-9	-9	-9
114	2	1400.2	34.597	2	34.597	2	3.331	3.228	27.542	0.020	0.0	2	42.4	2	3.02	2	121.3	2	-9	9	-9	9	68.54	2	1633	2	2347.6	3	7.4467	2	2380	2	-9	-9	-9	-9	-9
113	2	1600.2	34.613	2	34.615	2	2.892	2.777	27.597	0.017	0.0	2	42.1	2	2.98	2	131.6	2	-9	9	-9	9	77.35	2	1585	2	2331.2	3	7.4601	2	2399	2	-9	-9	-9	-9	-9
112	2	1800.6	34.627	2	34.627	2	2.590	2.462	27.635	0.015	0.0	2	41.6	2	2.89	2	137.7	2	0.001	2	-0.001	2	84.84	2	1529	2	2355.7	3	7.4753	2	2402	2	-9	-9	-9	-9	-9
111	2	1999.8	34.641	2	34.641	2	2.303	2.162	27.671	0.014	0.0	2	40.7	2	2.83	2	143.7	2	-9	9	-9	9	95.12	2	1468	2	2358.1	3	7.4949	2	2417	2	-9	-9	-9	-9	-9
110	2	2249.2	34.656	2	34.656	2	2.022	1.864	27.706	0.011	0.0	2	39.9	2	2.78	2	149.7	2	-9	9	-9	9	106.27	2	1389	2	2356.7	3	7.5165	2	2421	2	-9	-9	-9	-9	-9
109	2	2498.9	34.665	2	34.666	2	1.864	1.686	27.728	0.010	0.0	2	39.5	2	2.75	2	154.4	2	0.005	2	0.005	2	111.25	2	1360	2	2359.2	3	7.5264	2	2432	2	-9	-9	-9	-9	-9
108	2	2750.2	34.669	2	34.668	2	1.821	1.621	27.735	0.009	0.0	2	39.1	2	2.71	2	156.8	2	-9	9	-9	9	113.38	2	1295	2	2361.8	3	7.5312	2	2447	2	-9	-9	-9	-9	-9
107	2	2999.2	34.673	2	34.672	2	1.744	1.522	27.746	0.008	0.0	2	39.0	2	2.70	2	158.8	2	-0.001	2	0.001	2	119.30	2	1315	2	2358.1	3	7.5419	2	2434	2	-9	-9	-9	-9	-9
106	2	3252.2	34.681	2	34.681	2	1.589	1.346	27.765	0.009	0.0	2	38.4	2	2.61	2	155.3	2	-9	9	-9	9	132.09	2	1258	2	2348.6	3	7.5654	2	2458	2	-9	-9	-9	-9	-9
105	2	3501.1	34.684	2	34.684	2	1.551	1.283	27.772	0.007	0.0	2	38.2	2	2.56	2	153.3	2	0.002	2	0.002	2	138.26	2	1206	2	2344.9	2	7.5743	2	2434	2	-9	-9	-9	-9	-9
104	2	3746.6	34.687	2	34.687	2	1.506	1.214	27.779	0.007	0.0	2	37.8	2	2.52	2	151.0	2	-9	9	-9	9	144.05	2	1174	2	2341.4	2	7.5839	2	2435	2	-9	-9	-9	-9	-9
103	2	3747.8	34.687	2	34.690	2	1.504	1.212	27.779	0.007	0.0	2	37.7	2	2.53	2	150.7	2	0.011	2	-0.002	2	144.10	2	1164	2	2340.5	2	7.5866	2	2433	2	-9	-9	-9	-9	-9
102	2	3966.0	34.688	2	34.687	2	1.507	1.191	27.782	0.008	0.0	2	37.8	2	2.51	2	150.2	2	-9	9	-9	9	147.22	2	1154	2	2339.3	2	7.5882	2	2433	2	-9	-9	-9	-9	-9
101	2	-9	-9	9	-9	1	-9	-9	-9	-9	0.0	2	37.5	2	2.52	2	153.8	2	-9	9	-9	9	146.33	2	1158	2	2342.9	2	7.5879	2	2436	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	160	DATE	4/17/94	LATITUDE	6°0.0'N	Btm Depth:	3850
CAST	1			LONGITUDE	110°20.0'W		

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
STATION ABORTED																																					

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 161 DATE 4/17/94 LATITUDE 6°29.9'N Btm Depth: 3255
CAST 1 LONGITUDE 110°20.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.7	33.810	2	33.814	2	29.099	29.097	21.138	0.061	0.0	2	0.0	2	0.17	2	0.5	2	-9	1	-9	1	197.08	2	272	2	1898.8	2	8.1206	2	2221	2	1.60	95.7	4.5	-9	-9
135	2	24.0	33.814	2	33.822	2	29.036	29.030	21.164	0.072	0.0	2	0.0	2	0.15	2	0.6	2	1.690	2	0.935	2	197.56	6	-9	9	-9	9	8.1207	2	-9	9	-9	84.3	3.5	-9	-9
134	2	49.7	34.184	2	34.166	2	27.590	27.578	21.918	0.107	0.0	2	0.0	2	0.17	2	0.9	2	1.710	2	0.930	2	202.10	2	268	2	1920.6	2	8.1140	2	2256	2	-9	72.6	4.0	-9	-9
133	2	74.5	34.638	2	34.644	2	19.743	19.730	24.556	0.096	0.3	2	16.0	2	1.43	2	10.1	2	1.238	2	0.643	2	92.94	2	-9	9	-9	9	7.7696	2	-9	9	-9	71.7	4.8	-9	-9
132	3	99.1	34.722	2	34.726	2	13.916	13.902	25.993	0.047	0.1	2	28.4	2	2.11	2	21.1	2	0.723	2	0.373	2	34.73	2	1162	2	2207.7	2	-9	9	2290	2	-9	-9	4.5	-9	-9
131	2	124.3	34.712	2	34.708	2	12.625	12.609	26.247	0.036	0.0	2	27.9	2	2.08	2	23.7	2	0.627	2	0.324	2	47.41	2	-9	9	-9	9	7.5712	2	-9	9	-9	51.0	-9	-9	-9
130	2	149.0	34.770	2	34.770	2	12.274	12.255	26.361	0.035	0.0	2	29.9	2	2.16	2	24.5	2	0.480	2	0.256	2	37.99	2	1215	2	2222.3	2	7.5479	2	2299	2	-9	-9	4.5	-9	-9
129	2	174.1	34.751	2	34.754	2	11.769	11.746	26.444	0.034	0.0	2	30.7	2	2.19	2	25.7	2	0.401	6	0.211	6	37.28	2	-9	9	-9	9	7.5345	2	-9	9	-9	-9	-9	-9	-9
128	2	198.6	34.750	2	34.755	2	11.393	11.368	26.514	0.034	0.0	2	31.6	2	2.24	2	26.7	2	0.336	2	0.182	2	37.03	2	1288	2	2232.9	2	7.5218	2	2305	2	-9	55.4	-9	-9	-9
127	2	223.2	34.736	2	34.738	2	11.038	11.011	26.568	0.036	0.0	2	30.9	2	2.23	2	27.6	2	0.310	2	0.177	2	42.93	2	-9	9	-9	9	7.5274	2	-9	9	-9	-9	-9	-9	-9
126	2	248.8	34.737	2	34.736	2	10.755	10.725	26.620	0.036	0.0	2	33.1	2	2.40	2	29.5	2	0.190	2	0.107	2	24.25	2	1465	2	2251.6	2	7.4749	2	2302	2	-9	-9	-9	-9	-9
125	2	299.3	34.711	2	34.711	2	10.259	10.224	26.688	0.038	0.0	2	35.0	2	2.48	2	31.7	2	0.132	2	0.072	2	18.44	2	1554	2	2258.9	2	7.4538	2	2302	2	-9	-9	3.1	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	345.1	34.692	2	34.691	2	9.816	9.776	26.749	0.037	0.0	2	34.4	2	2.48	2	31.5	2	0.059	6	0.035	6	10.88	2	-9	9	2270.5	2	7.4253	2	2316	3	-9	-9	-9	-9	-9
122	2	397.2	34.663	2	34.661	2	9.216	9.172	26.827	0.038	0.0	2	36.5	2	2.75	2	39.0	2	-9	1	-9	1	6.87	2	1761	2	2279.5	2	7.3991	2	2312	2	-9	49.1	-9	-9	-9
121	2	497.2	34.623	2	34.623	2	8.273	8.221	26.945	0.031	0.0	2	37.0	2	2.99	2	48.3	2	0.008	2	0.004	2	1.45	6	1905	2	2298.3	2	7.3684	2	2319	2	-9	47.5	-9	-9	-9
120	2	599.6	34.583	2	34.581	2	7.046	6.988	27.092	0.030	0.0	2	41.0	2	3.19	2	59.6	2	-0.002	2	0.003	2	2.39	2	1990	2	2314.5	2	7.3508	2	2333	2	-9	-9	-9	-9	-9
119	2	700.2	34.566	2	34.565	2	6.070	6.008	27.209	0.031	0.0	2	44.3	2	3.23	2	68.3	2	0.004	2	0.003	2	10.51	2	1999	2	2322.0	2	7.3512	2	2337	2	-9	-9	-9	-9	-9
118	2	801.5	34.562	2	34.561	2	5.394	5.325	27.289	0.028	0.0	2	44.1	2	3.18	2	80.2	2	0.001	2	0.001	2	20.65	2	1941	2	2328.8	2	-9	9	2340	2	-9	-9	-9	-9	-9
117	2	898.3	34.561	2	34.560	2	5.037	4.962	27.331	0.026	0.0	2	44.7	2	3.14	2	85.0	2	0.002	2	0.003	2	31.03	2	1877	2	2328.6	2	7.3811	2	2345	2	-9	-9	-9	-9	-9
116	2	999.3	34.567	2	34.568	2	4.550	4.470	27.391	0.024	0.0	2	44.2	2	3.14	2	94.0	2	0.001	2	0.003	2	35.26	2	1866	2	2337.2	2	7.3850	2	2354	6	-9	42.4	-9	-9	-9
115	2	1099.6	34.571	2	34.571	2	4.107	4.022	27.443	0.022	0.0	2	42.2	2	3.04	2	101.2	2	-9	9	-9	9	54.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1201.4	34.579	2	34.579	2	3.827	3.736	27.478	0.020	0.0	2	42.2	2	3.01	2	107.0	2	-9	9	-9	9	59.80	2	-9	9	-9	9	7.4313	2	-9	9	-9	-9	-9	-9	-9
113	2	1297.9	34.586	2	34.586	2	3.560	3.463	27.511	0.018	0.0	2	41.9	2	3.00	2	112.7	2	-0.001	2	0.003	2	65.62	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1400.6	34.594	2	34.594	2	3.364	3.260	27.537	0.017	0.0	2	41.8	2	3.00	2	118.1	2	-9	9	-9	9	68.26	2	-9	9	-9	9	7.4447	2	-9	9	-9	-9	-9	-9	-9
111	2	1598.1	34.613	2	34.613	2	2.887	2.772	27.597	0.016	0.0	2	41.3	2	2.99	2	130.4	2	-9	9	-9	9	73.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1797.9	34.627	2	34.627	2	2.576	2.448	27.636	0.015	0.0	2	40.1	2	2.89	2	137.4	2	0.005	2	0.001	2	84.55	2	-9	9	-9	9	7.4748	2	-9	9	-9	-9	-9	-9	-9
109	2	1999.0	34.640	2	34.640	2	2.301	2.160	27.670	0.012	0.0	2	39.9	2	2.83	2	142.4	2	-9	9	-9	9	93.33	2	-9	9	-9	9	-9	9	-9	9	-9	36.8	-9	-9	-9
108	2	2199.4	34.650	2	34.652	2	2.116	1.961	27.695	0.011	0.0	2	39.7	2	2.79	2	146.7	2	-9	9	-9	9	98.83	2	-9	9	-9	9	7.5016	2	-9	9	-9	-9	-9	-9	-9
107	2	2391.5	34.660	2	34.658	2	1.956	1.786	27.716	0.011	0.0	2	38.7	2	2.69	2	156.4	2	-9	9	-9	9	102.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2601.4	34.666	2	34.665	2	1.860	1.673	27.729	0.009	0.0	2	37.9	2	2.66	2	158.6	2	-0.001	2	0.001	2	108.79	2	-9	9	-9	9	7.5225	2	-9	9	-9	-9	-9	-9	-9
105	2	2800.8	34.669	2	34.670	2	1.810	1.605	27.737	0.008	0.0	2	37.9	2	2.70	2	161.5	2	-9	9	-9	9	113.06	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2999.7	34.675	2	34.674	2	1.698	1.477	27.751	0.008	0.0	2	37.4	2	2.65	2	158.9	2	-9	9	-9	9	122.19	2	-9	9	-9	9	-9	9	-9	9	-9	47.2	-9	-9	-9
103	2	3200.0	34.681	2	34.683	2	1.569	1.331	27.767	0.007	0.0	2	36.9	2	2.58	2	155.9	2	-0.001	2	0.001	2	133.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3198.8	34.682	2	34.680	2	1.567	1.329	27.767	0.008	0.0	2	36.8	2	2.55	2	156.0	2	-9	9	-9	9	134.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3265.5	34.683	2	34.682	2	1.538	1.294	27.771	0.007	0.0	2	37.6	2	2.57	2	153.8	2	-0.002	2	0.012	2	137.12	6	-9	9	-9	9	-9	9	-9	9	-9	41.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 162 DATE 4/18/94 LATITUDE 7°0.0'N Btm Depth: 3823
CAST 1 LONGITUDE 110°20.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.2	33.987	2	33.994	2	29.034	29.032	21.293	0.067	0.0	2	0.1	2	0.19	2	2.0	2	-9	9	-9	9	197.28	2	254	2	1901.8	2	8.1200	2	2228	6	1.60	-9	-9	-9	-9
135	2	24.5	33.985	2	33.991	2	29.040	29.034	21.291	0.074	0.0	2	0.1	2	0.17	2	1.6	2	-9	9	-9	9	196.74	2	-9	9	-9	9	8.1218	2	-9	9	-9	-9	-9	-9	-9
134	2	51.1	34.427	2	34.420	2	25.073	25.062	22.889	0.211	0.0	2	0.3	2	0.37	2	0.7	2	-9	9	-9	9	206.38	2	315	2	1973.7	2	8.0490	2	2264	2	-9	-9	-9	-9	-9
133	2	75.3	34.672	2	34.664	2	18.114	18.101	24.996	0.063	1.0	2	23.1	2	1.88	2	14.4	2	-9	9	-9	9	50.05	2	-9	9	-9	9	7.6549	2	-9	9	-9	-9	-9	-9	-9
132	3	97.3	34.813	2	-9	5	14.326	14.312	25.977	0.047	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	13.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	2	125.2	34.821	2	34.822	2	12.846	12.829	26.289	0.036	0.0	2	31.7	2	2.34	2	25.3	2	-9	9	-9	9	17.09	2	-9	9	2230.2	2	7.5094	2	2292	2	-9	-9	-9	-9	-9
130	2	152.2	34.802	2	34.805	2	12.323	12.303	26.377	0.035	0.0	2	32.8	2	2.40	2	26.8	2	-9	9	-9	9	10.82	6	1378	2	2238.8	2	7.4879	2	2290	2	-9	-9	-9	-9	-9
129	2	174.9	34.776	2	34.775	2	11.844	11.821	26.449	0.033	0.0	2	32.0	2	2.30	2	27.4	2	-9	9	-9	9	27.87	2	-9	9	-9	9	7.5157	2	-9	9	-9	-9	-9	-9	-9
128	2	198.9	34.764	2	34.765	2	11.442	11.416	26.515	0.034	0.0	2	32.6	2	2.29	2	28.4	2	-9	9	-9	9	28.94	2	1351	2	2235.1	2	7.5057	2	2299	2	-9	-9	-9	-9	-9
127	2	224.3	34.749	2	34.750	2	11.112	11.084	26.565	0.038	0.0	2	32.3	2	2.30	2	29.5	2	-9	9	-9	9	34.55	2	-9	9	-9	9	7.5108	2	-9	9	-9	-9	-9	-9	-9
126	2	249.5	34.742	2	34.741	2	10.908	10.877	26.597	0.037	0.0	2	33.0	2	2.35	2	30.7	2	-9	9	-9	9	31.16	2	-9	9	2240.2	2	7.4980	2	2298	2	-9	-9	-9	-9	-9
125	2	299.8	34.721	2	34.721	2	10.409	10.373	26.670	0.037	0.0	2	34.4	2	2.49	2	33.5	2	-9	9	-9	9	19.05	2	1530	2	2255.5	2	7.4580	2	2300	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	348.1	34.691	2	34.690	2	9.764	9.724	26.757	0.034	0.0	2	35.3	2	2.72	2	39.6	2	-9	9	-9	9	5.07	2	1735	2	2278.5	2	7.4056	2	2301	2	-9	-9	-9	-9	-9
122	2	398.1	34.664	2	34.664	2	9.195	9.150	26.830	0.031	0.0	2	36.3	2	2.83	2	43.6	2	-9	9	-9	9	3.00	2	1806	2	2288.0	2	7.3889	2	2309	2	-9	-9	-9	-9	-9
121	2	499.9	34.606	2	34.605	2	7.965	7.913	26.978	0.031	0.0	2	37.6	2	3.06	2	54.3	2	-9	9	-9	9	1.44	2	1917	2	2304.3	2	7.3626	2	2321	2	-9	-9	-9	-9	-9
120	2	599.3	34.580	2	34.579	2	6.898	6.841	27.110	0.030	0.0	2	42.0	2	3.25	2	63.9	2	-9	9	-9	9	3.34	2	2005	2	2316.7	2	7.3504	2	2327	2	-9	-9	-9	-9	-9
119	2	698.9	34.568	2	34.566	2	6.096	6.034	27.207	0.028	0.0	2	45.1	2	3.29	2	72.1	2	-9	9	-9	9	8.17	6	2016	2	2325.4	2	7.3470	2	2335	2	-9	-9	-9	-9	-9
118	2	797.2	34.560	2	34.560	2	5.541	5.472	27.271	0.025	0.0	2	45.2	2	3.20	2	77.2	2	-9	9	-9	9	25.23	2	1890	2	2322.3	3	7.3748	2	2341	2	-9	-9	-9	-9	-9
117	2	899.0	34.561	2	34.560	2	5.079	5.004	27.327	0.024	0.0	2	44.8	2	3.21	2	84.8	2	-9	9	-9	9	32.61	2	1854	2	2326.9	2	7.3848	2	2346	2	-9	-9	-9	-9	-9
116	2	1001.6	34.565	2	34.565	2	4.682	4.601	27.376	0.023	0.0	2	45.1	2	3.24	2	93.3	2	-9	9	-9	9	34.98	2	1868	2	2335.7	2	7.3857	2	2356	6	-9	-9	-9	-9	-9
115	2	1099.3	34.568	2	34.568	2	4.277	4.191	27.423	0.021	0.0	2	43.9	2	3.17	2	100.6	2	-9	9	-9	9	46.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1204.3	34.575	2	34.575	2	3.932	3.840	27.465	0.019	0.0	2	43.4	2	3.10	2	106.5	2	-9	9	-9	9	57.09	2	-9	9	-9	9	7.4252	2	-9	9	-9	-9	-9	-9	-9
113	2	1397.2	34.591	2	34.592	2	3.426	3.322	27.529	0.017	0.0	2	42.6	2	3.08	2	119.9	2	-9	9	-9	9	65.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1601.0	34.612	2	34.612	2	2.906	2.791	27.594	0.017	0.0	2	42.1	2	3.03	2	133.8	2	-9	9	-9	9	73.70	2	-9	9	-9	9	7.4550	2	-9	9	-9	-9	-9	-9	-9
111	2	1744.3	34.620	2	34.619	2	2.696	2.571	27.620	0.016	0.0	2	42.1	2	3.02	2	137.7	2	-9	9	-9	9	80.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1996.7	34.637	2	34.637	2	2.328	2.187	27.666	0.013	0.0	2	40.6	2	2.89	2	143.8	2	-9	9	-9	9	92.10	2	-9	9	-9	9	7.4879	2	-9	9	-9	-9	-9	-9	-9
109	2	2252.2	34.654	2	34.653	2	2.033	1.874	27.705	0.011	0.0	2	40.2	2	2.84	2	152.3	2	-9	9	-9	9	100.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2499.6	34.665	2	34.664	2	1.867	1.689	27.727	0.010	0.0	2	39.7	2	2.78	2	157.7	2	-9	9	-9	9	107.84	2	-9	9	-9	9	7.5187	2	-9	9	-9	-9	-9	-9	-9
107	2	2747.7	34.668	2	34.666	2	1.838	1.638	27.733	0.009	0.0	2	40.2	2	2.78	2	160.1	2	-9	9	-9	9	110.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2998.1	34.673	2	34.673	2	1.742	1.520	27.747	0.009	0.0	2	39.5	2	2.73	2	158.1	2	-9	9	-9	9	117.46	2	-9	9	-9	9	7.5399	2	-9	9	-9	-9	-9	-9	-9
105	2	3247.2	34.679	2	34.679	2	1.629	1.386	27.761	0.007	0.0	2	39.0	2	2.67	2	156.5	2	-9	9	-9	9	130.14	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3498.5	34.683	2	34.683	2	1.573	1.305	27.770	0.007	0.0	2	38.3	2	2.63	2	154.8	2	-9	9	-9	9	136.53	2	-9	9	-9	9	7.5702	2	-9	9	-9	-9	-9	-9	-9
103	2	3747.1	34.685	2	34.687	2	1.529	1.236	27.777	0.009	0.0	2	37.9	2	2.59	2	153.4	2	-9	9	-9	9	142.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	3	3747.0	34.686	2	34.683	2	1.529	1.236	27.777	0.009	0.0	2	38.0	2	2.60	2	152.5	2	-9	9	-9	9	142.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3877.6	34.686	2	34.685	2	1.542	1.235	27.777	0.009	0.0	2	37.6	2	2.60	2	153.0	2	-9	9	-9	9	-9	1	-9	9	-9	9	7.5822	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 163 DATE 4/18/94 LATITUDE 7°29.9'N Btm Depth: 3939
CAST 1 LONGITUDE 110°20.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.5	33.931	2	33.936	2	28.928	28.926	21.287	0.060	0.0	2	0.1	2	0.15	2	1.2	2	1.678	6	0.929	2	197.06	2	255	2	1902.4	2	8.1180	2	2229	2	1.50	88.4	5.9	-9	-9
135	2	25.0	33.934	2	33.937	2	28.935	28.929	21.287	0.066	0.0	2	0.1	2	0.14	2	1.2	2	1.649	2	0.898	2	196.97	2	264	2	1899.5	2	8.1198	2	2243	3	1.60	91.0	5.7	-9	-9
134	2	49.6	34.012	2	34.022	2	27.231	27.220	21.904	0.174	0.0	2	0.1	2	0.25	2	1.3	2	1.665	2	0.912	2	197.48	2	286	2	1928.8	2	8.0876	2	2246	2	1.50	-9	4.2	-9	-9
133	2	74.7	34.739	2	34.736	2	14.944	14.933	25.786	0.080	0.1	2	27.7	2	2.04	2	19.7	2	0.827	2	0.420	2	32.57	2	1126	2	2198.4	2	7.5776	2	2283	2	0.00	62.5	4.4	-9	-9
132	2	100.2	34.784	2	34.818	3	13.163	13.149	26.196	0.044	0.0	2	29.3	2	2.08	2	22.5	2	0.582	6	0.304	6	35.79	2	1173	3	2212.1	2	7.5635	2	2297	2	0.10	-9	3.9	-9	-9
131	2	125.3	34.843	2	34.842	2	12.850	12.833	26.304	0.037	0.0	2	30.1	2	2.17	2	23.5	2	0.471	2	0.247	2	28.83	2	1237	2	2221.1	2	7.5405	2	2301	2	-9	-9	-9	-9	-9
130	2	150.7	34.786	2	34.784	2	11.977	11.957	26.431	0.033	0.0	2	31.4	2	2.22	2	26.0	2	0.375	2	0.201	2	29.15	2	1298	2	2228.7	2	7.5210	2	2300	2	0.00	59.1	-9	-9	-9
129	2	175.5	34.767	2	34.765	2	11.612	11.589	26.486	0.032	0.0	2	31.7	2	2.24	2	27.0	2	0.329	2	0.171	2	30.66	6	1312	2	2231.9	2	7.5160	2	2291	2	-9	-9	-9	-9	-9
128	2	200.0	34.751	2	34.750	2	11.286	11.261	26.534	0.035	0.0	2	31.1	2	2.24	2	27.8	2	0.319	2	0.171	2	38.43	2	1284	2	2230.1	2	7.5232	2	2295	2	0.10	54.3	2.9	-9	-9
127	2	249.4	34.739	2	34.738	2	10.870	10.839	26.602	0.036	0.0	2	32.7	2	2.33	2	29.8	2	0.236	2	0.131	2	31.49	2	1379	2	2240.1	2	7.4989	2	2294	2	-9	-9	-9	-9	-9
126	2	301.0	34.720	2	34.719	2	10.426	10.390	26.666	0.037	0.0	2	33.7	2	2.37	2	31.3	2	0.188	6	0.098	6	31.79	2	1421	2	2244.4	2	7.4871	2	2300	2	0.10	55.4	-9	-9	-9
125	2	351.2	34.705	2	34.704	2	10.106	10.065	26.710	0.039	0.0	2	34.1	2	2.42	2	32.9	2	0.148	2	0.082	2	5.42	2	1451	2	2249.1	2	7.4792	2	2299	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.8	34.675	2	34.671	2	9.589	9.544	26.775	0.038	0.0	2	35.5	2	2.72	2	38.9	2	0.038	6	0.021	6	4.85	2	1751	2	2277.2	2	7.4007	2	2299	2	-0.10	53.6	-9	-9	-9
122	2	499.3	34.620	2	34.619	2	8.224	8.172	26.949	0.034	0.0	2	37.1	2	3.02	2	51.4	2	0.009	2	0.003	2	1.31	2	1920	2	2301.6	2	7.3668	2	2316	2	-0.20	-9	-9	-9	-9
121	2	600.0	34.587	2	34.586	2	7.183	7.124	27.076	0.032	0.0	2	41.1	2	3.13	2	60.0	2	0.003	2	0.000	2	2.75	2	1989	2	2313.8	2	7.3522	2	2319	2	-0.20	-9	-9	-9	-9
120	2	701.3	34.572	2	34.570	2	6.384	6.319	27.173	0.031	0.0	2	42.8	2	3.19	2	69.3	2	0.010	2	0.000	2	5.72	2	2014	2	2322.2	2	7.3477	2	2325	2	-0.20	-9	-9	-9	-9
119	2	800.9	34.563	2	34.562	2	5.733	5.663	27.249	0.037	0.0	2	43.9	2	3.22	2	78.5	2	0.004	2	0.002	2	14.74	2	1989	2	2327.6	2	7.3546	2	2337	2	-0.20	-9	-9	-9	-9
118	2	898.8	34.561	2	34.560	2	5.184	5.108	27.314	0.028	0.0	2	44.7	2	3.20	2	87.0	2	0.004	2	0.001	2	24.07	2	1930	2	2333.5	2	7.3673	2	2345	2	-0.20	-9	-9	-9	-9
117	2	1000.7	34.563	2	34.562	2	4.741	4.660	27.367	0.025	0.0	2	44.0	2	3.15	2	92.2	2	-0.001	2	0.000	2	38.08	2	1839	2	2336.0	2	7.3922	2	2350	3	-0.10	-9	-9	-9	-9
116	2	1199.9	34.573	2	34.574	2	4.028	3.935	27.454	0.021	0.0	2	42.6	2	3.09	2	106.0	2	-9	9	-9	9	52.84	2	1740	2	2338.5	2	7.4173	2	2372	2	-0.20	-9	-9	-9	-9
115	2	1398.1	34.594	2	34.593	2	3.430	3.326	27.530	0.021	0.0	2	42.1	2	3.07	2	121.6	2	-0.002	2	0.001	2	58.11	2	1720	2	2354.7	2	7.4264	2	2383	2	-0.20	-9	-9	-9	-9
114	2	1599.5	34.609	2	34.610	2	3.004	2.888	27.583	0.019	0.0	2	41.9	2	3.00	2	130.4	2	-9	9	-9	9	70.39	2	1625	2	2355.4	2	7.4475	2	2399	2	-0.20	-9	-9	-9	-9
113	2	1798.2	34.621	2	34.623	2	2.637	2.508	27.626	0.017	0.0	2	41.0	2	2.92	2	137.5	2	-9	9	-9	9	81.49	6	1563	2	2357.0	2	7.4678	2	2403	2	-9	-9	-9	-9	-9
112	2	1999.8	34.635	2	34.635	2	2.339	2.198	27.664	0.015	0.0	2	40.1	2	2.87	2	144.4	2	0.002	2	0.001	2	89.39	2	1506	2	2357.7	2	7.4807	2	2413	2	-0.10	-9	-9	-9	-9
111	2	2198.3	34.652	2	34.651	2	2.078	1.923	27.699	0.013	0.0	2	39.5	2	2.81	2	151.9	2	-9	9	-9	9	96.56	2	1462	2	2362.6	2	7.4972	2	2425	2	-9	-9	-9	-9	-9
110	2	2400.9	34.662	2	34.663	2	1.904	1.734	27.722	0.011	0.0	2	38.8	2	2.75	2	155.8	2	-9	9	-9	9	105.16	2	1393	2	2361.5	2	7.5157	2	2426	2	-0.10	-9	-9	-9	-9
109	2	2601.7	34.666	2	34.667	2	1.852	1.665	27.730	0.010	0.0	2	38.5	2	2.72	2	160.6	2	-0.001	2	0.000	2	108.46	2	1368	2	2360.9	2	7.5220	2	2427	2	-9	-9	-9	-9	-9
108	2	2800.0	34.670	2	34.670	2	1.790	1.586	27.739	0.010	0.0	2	39.1	2	2.70	2	160.5	2	-9	9	-9	9	113.25	2	1334	2	2358.9	2	7.5317	2	2432	2	-9	-9	-9	-9	-9
107	2	2999.5	34.676	2	34.675	2	1.690	1.469	27.752	0.008	0.0	2	37.8	2	2.66	2	160.4	2	-9	9	-9	9	125.00	2	1286	2	2353.9	2	7.5471	2	2433	2	-0.10	-9	-9	-9	-9
106	2	3201.0	34.679	2	34.678	2	1.631	1.392	27.760	0.009	0.0	2	38.1	2	2.63	2	158.6	2	0.000	2	0.001	2	128.76	2	1259	2	2350.4	2	7.5568	2	2433	2	-9	-9	-9	-9	-9
105	2	3400.9	34.682	2	34.682	2	1.567	1.309	27.769	0.009	0.0	2	37.6	2	2.58	2	157.0	2	-9	9	-9	9	135.69	2	1219	2	2345.8	2	7.5681	2	2438	2	0.00	-9	-9	-9	-9
104	2	3598.3	34.684	2	34.685	2	1.549	1.271	27.773	0.009	0.0	2	37.8	2	2.58	2	155.6	2	-9	9	-9	9	138.83	2	1201	2	2343.4	2	7.5745	2	2438	2	-9	-9	-9	-9	-9
103	2	3795.8	34.685	2	34.686	2	1.548	1.250	27.775	0.009	0.0	2	37.4	2	2.56	2	155.0	2	0.004	2	-0.002	2	140.70	6	1190	2	2341.7	2	7.5781	2	2436	2	-9	-9	-9	-9	-9
102	2	3797.2	34.685	2	34.685	2	1.548	1.249	27.775	0.009	0.0	2	37.3	2	2.57	2	154.6	2	-9	9	-9	9	141.09	2	1182	3	2341.5	2	7.5777	2	2430	2	-9	-9	-9	-9	-9
101	2	3984.0	34.686	2	34.686	2	1.547	1.228	27.778	0.009	0.0	2	37.2	2	2.55	2	154.2	2	-9	9	-9	9	142.76	2	1173	2	2340.9	2	7.5812	2	2435	2	0.00	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 164 DATE 4/18/94 LATITUDE 7°59.9'N Btm Depth: 3969
CAST 1 LONGITUDE 110°20.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.4	33.892	2	33.897	2	28.907	28.905	21.264	-9	0.0	2	0.0	2	0.17	2	0.4	2	1.680	2	0.935	2	197.24	2	261	2	1901.5	2	8.1188	2	2219	3	1.60	-9	-9	-9	-9
135	2	23.9	33.890	2	33.900	2	28.863	28.857	21.278	-9	0.0	2	0.0	2	0.16	2	0.5	2	1.693	2	0.939	2	196.79	2	-9	9	-9	9	8.1185	2	-9	9	-9	-9	-9	-9	-9
134	2	49.5	34.359	2	34.348	2	22.312	22.302	23.646	-9	0.2	2	9.8	2	1.04	2	1.3	2	1.349	2	0.713	2	130.45	2	487	2	2055.1	2	7.8909	2	2258	2	-9	-9	-9	-9	-9
133	2	74.8	34.725	2	34.725	2	14.786	14.775	25.809	-9	0.2	2	27.3	2	2.11	2	19.7	2	-9	9	-9	9	33.11	2	-9	9	-9	9	7.5749	2	-9	9	-9	-9	-9	-9	-9
132	2	99.2	34.770	2	34.768	2	13.610	13.596	26.094	-9	0.0	2	28.5	2	2.13	2	22.5	2	0.661	6	0.346	6	32.31	2	1163	2	2210.8	2	-9	9	2282	2	-9	-9	-9	-9	-9
131	2	124.2	34.800	2	34.802	2	13.119	13.101	26.218	-9	0.0	2	29.7	2	2.17	2	22.9	2	-9	9	-9	9	30.97	2	-9	9	-9	9	7.5497	2	-9	9	-9	-9	-9	-9	-9
130	2	150.4	34.803	2	34.802	2	12.520	12.500	26.339	-9	0.0	2	30.1	2	2.22	2	24.7	2	0.473	2	0.249	2	32.94	2	1221	2	2221.5	2	7.5427	2	2292	2	-9	-9	-9	-9	-9
129	2	174.4	34.780	2	34.778	2	11.971	11.948	26.428	-9	0.0	2	30.8	2	2.24	2	26.0	2	-9	9	-9	9	33.71	2	-9	9	-9	9	7.5328	2	-9	9	-9	-9	-9	-9	-9
128	2	198.4	34.769	2	34.767	2	11.643	11.618	26.482	-9	0.0	2	31.4	2	2.29	2	26.7	2	0.344	2	0.181	2	31.70	2	1300	2	2231.1	2	7.5179	2	2287	3	-9	-9	-9	-9	-9
127	2	250.3	34.748	2	34.747	2	11.049	11.019	26.576	-9	0.0	2	32.9	2	2.37	2	28.6	2	-9	9	-9	9	27.49	6	-9	9	-9	9	7.4932	2	-9	9	-9	-9	-9	-9	-9
126	2	301.2	34.735	2	34.734	2	10.754	10.717	26.620	-9	0.0	2	33.5	2	2.42	2	29.9	2	0.204	2	0.109	2	25.42	2	1432	2	2246.6	2	7.4807	2	2294	2	-9	-9	-9	-9	-9
125	2	349.9	34.711	2	34.710	2	10.218	10.177	26.696	-9	0.0	2	34.2	2	2.56	2	33.6	2	-9	9	-9	9	16.13	2	-9	9	-9	9	7.4452	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.2	34.682	2	34.683	2	9.645	9.599	26.771	-9	0.0	2	34.7	2	2.75	2	39.3	2	0.052	2	0.029	2	6.07	2	1720	2	2277.2	2	7.4047	2	2297	2	-9	-9	-9	-9	-9
122	2	500.0	34.624	2	34.624	2	8.284	8.231	26.944	-9	0.0	2	36.9	2	3.03	2	51.1	2	-9	9	-9	9	1.03	2	1892	2	2298.9	2	7.3687	2	2309	2	-9	-9	-9	-9	-9
121	2	600.2	34.593	2	34.591	2	7.377	7.318	27.053	-9	0.0	2	39.5	2	3.11	2	61.3	2	0.006	2	0.001	2	2.17	2	1970	2	2311.5	2	7.3557	2	2322	2	-9	-9	-9	-9	-9
120	2	700.8	34.567	2	34.566	2	6.153	6.090	27.199	-9	0.0	2	44.1	2	3.19	2	72.3	2	-9	9	-9	9	7.37	2	2017	2	2323.5	2	7.3481	2	2329	2	-9	-9	-9	-9	-9
119	2	801.9	34.561	2	34.561	2	5.557	5.488	27.269	-9	0.0	2	44.9	2	3.17	2	78.5	2	0.008	2	0.002	2	18.77	2	1967	2	2326.6	2	7.3608	2	2330	3	-9	-9	-9	-9	-9
118	2	902.5	34.560	2	34.560	2	5.187	5.111	27.314	-9	0.0	2	44.9	2	3.17	2	83.9	2	-9	9	-9	9	25.53	2	1922	3	2328.0	2	7.3716	2	2346	6	-9	-9	-9	-9	-9
117	2	1000.6	34.561	2	34.560	2	4.774	4.692	27.362	-9	0.0	2	44.5	2	3.14	2	90.6	2	0.002	2	0.003	2	34.35	2	1875	2	2332.3	2	7.3849	2	2353	2	-9	-9	-9	-9	-9
116	2	1098.3	34.567	2	34.566	2	4.344	4.257	27.415	-9	0.0	2	44.2	2	3.12	2	98.9	2	-9	9	-9	9	42.67	2	-9	9	-9	9	7.3988	2	-9	9	-9	-9	-9	-9	-9
115	2	1202.2	34.576	2	34.576	2	3.993	3.900	27.459	-9	0.0	2	43.7	2	3.16	2	111.4	2	0.003	2	0.002	2	40.55	2	-9	9	-9	9	7.3924	2	-9	9	-9	-9	-9	-9	-9
114	2	1299.3	34.586	2	34.585	2	3.666	3.568	27.500	-9	0.0	2	43.2	2	3.10	2	120.1	2	-9	9	-9	9	48.62	2	-9	9	-9	9	7.4066	2	-9	9	-9	-9	-9	-9	-9
113	2	1401.6	34.593	2	34.593	2	3.437	3.333	27.529	-9	0.0	2	43.3	2	3.06	2	123.2	2	-9	9	-9	9	55.49	6	-9	9	-9	9	7.4202	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.3	34.610	2	34.610	2	2.958	2.842	27.588	-9	0.0	2	42.4	2	2.96	2	132.0	2	-9	9	-9	9	69.43	2	-9	9	-9	9	7.4464	2	-9	9	-9	-9	-9	-9	-9
111	2	1800.0	34.623	2	34.623	2	2.628	2.499	27.629	-9	0.0	2	41.3	2	2.88	2	137.6	2	-9	9	-9	9	81.39	3	-9	9	-9	9	7.4671	2	-9	9	-9	-9	-9	-9	-9
110	2	2000.0	34.637	2	34.637	2	2.341	2.200	27.665	-9	0.0	2	40.8	2	2.86	2	147.9	2	-9	9	-9	9	85.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2240.9	34.659	2	34.659	2	1.968	1.811	27.713	-9	0.0	2	39.9	2	2.76	2	156.0	2	-9	9	-9	9	100.86	2	-9	9	-9	9	7.5069	2	-9	9	-9	-9	-9	-9	-9
108	2	2498.1	34.666	2	34.667	2	1.849	1.671	27.730	-9	0.0	2	39.2	2	2.71	2	156.4	2	-9	9	-9	9	108.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2750.5	34.669	2	34.669	2	1.809	1.609	27.737	-9	0.0	2	39.1	2	2.68	2	155.6	2	-9	9	-9	9	111.69	2	-9	9	-9	9	7.5283	2	-9	9	-9	-9	-9	-9	-9
106	2	2999.7	34.675	2	34.674	2	1.703	1.482	27.751	-9	0.0	2	38.9	2	2.63	2	154.3	2	-9	9	-9	9	121.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3248.8	34.680	2	34.679	2	1.606	1.362	27.763	-9	0.0	2	37.6	2	2.60	2	157.3	2	-9	9	-9	9	130.53	6	-9	9	-9	9	7.5610	2	-9	9	-9	-9	-9	-9	-9
104	2	3500.8	34.681	2	34.682	2	1.589	1.320	27.767	-9	0.0	2	36.9	2	2.59	2	161.9	2	-9	9	-9	9	133.85	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3749.2	34.683	2	34.684	2	1.593	1.298	27.770	-9	0.0	2	37.5	2	2.54	2	159.2	2	0.006	2	0.001	2	135.74	2	-9	9	-9	9	7.5693	2	-9	9	-9	-9	-9	-9	-9
102	2	3749.6	34.683	2	34.683	2	1.592	1.298	27.770	-9	0.0	2	37.4	2	2.56	2	157.5	2	-9	9	-9	9	135.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3989.8	34.683	2	34.684	2	1.600	1.280	27.772	-9	0.0	2	37.2	2	2.55	2	159.0	2	-9	9	-9	9	137.31	2	-9	9	-9	9	7.5732	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 165 DATE 4/18/94 LATITUDE 8°30.1'N Btm Depth: 3877
CAST 1 LONGITUDE 110°15.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C atm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Pheo µg/L
136	2	9.9	34.040	2	34.045	2	28.963	28.961	21.357	0.073	0.0	2	0.1	2	0.16	2	0.0	2	1.717	2	0.942	2	197.44	2	267	2	1913.7	2	8.1160	2	2245	6	-9	80.1	4.2	-9	-9
135	2	24.8	34.039	2	34.045	2	28.885	28.879	21.383	0.084	0.0	2	0.0	2	0.15	2	0.0	2	1.688	2	0.944	2	197.44	2	-9	9	-9	9	8.1205	2	-9	9	-9	-9	4.4	-9	-9
134	2	50.3	34.147	2	34.134	2	24.918	24.907	22.725	0.163	1.0	2	4.8	2	0.73	2	0.5	2	1.585	2	0.918	2	152.79	2	-9	9	-9	9	7.9729	2	-9	9	-9	69.2	4.5	-9	-9
133	2	73.9	34.620	2	34.624	2	18.635	18.622	24.826	0.108	0.7	2	23.2	2	1.92	2	11.7	2	1.009	6	0.534	6	41.69	6	-9	9	-9	9	7.6450	2	-9	9	-9	49.5	4.1	-9	-9
132	2	97.3	34.720	2	34.726	2	14.507	14.493	25.866	0.051	0.0	2	27.3	2	2.05	2	18.5	2	0.803	2	0.413	2	39.76	2	-9	9	-9	9	7.5843	2	-9	9	-9	37.7	3.5	-9	-9
131	2	123.2	34.747	2	34.746	2	13.112	13.095	26.177	0.039	0.0	2	28.3	2	2.09	2	21.1	2	0.668	2	0.336	2	44.48	2	-9	9	-9	9	7.5762	2	-9	9	-9	39.9	3.0	-9	-9
130	2	152.3	34.782	2	34.782	2	12.493	12.473	26.329	0.035	0.0	2	31.3	2	2.27	2	23.0	2	0.466	2	0.240	2	24.53	2	-9	9	-9	9	7.5228	2	-9	9	-9	40.5	-9	-9	-9
129	2	174.9	34.775	2	34.775	2	12.067	12.044	26.406	0.033	0.0	2	31.2	2	2.27	2	24.1	2	0.398	6	0.216	6	30.04	2	-9	9	-9	9	7.5255	2	-9	9	-9	-9	-9	-9	-9
128	2	200.1	34.756	2	34.755	2	11.600	11.575	26.480	0.035	0.0	2	31.8	2	2.29	2	25.4	2	0.336	2	0.178	2	31.75	2	-9	9	-9	9	7.5174	2	-9	9	-9	35.0	-9	-9	-9
127	2	224.9	34.756	2	34.755	2	11.390	11.362	26.519	0.036	0.0	2	32.2	2	2.31	2	26.2	2	0.290	2	0.155	2	29.00	2	-9	9	-9	9	7.5071	2	-9	9	-9	-9	-9	-9	-9
126	2	249.9	34.750	2	34.751	2	11.179	11.147	26.554	0.038	0.0	2	32.5	2	2.34	2	26.9	2	0.266	2	0.143	2	30.59	2	-9	9	-9	9	7.5028	2	-9	9	-9	-9	-9	-9	-9
125	2	297.9	34.733	2	34.732	2	10.727	10.691	26.623	0.039	0.0	2	33.4	2	2.38	2	28.3	2	0.215	6	0.118	6	31.07	2	-9	9	-9	9	7.4943	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.1	34.688	2	34.689	2	9.746	9.700	26.759	0.037	0.0	2	35.6	2	2.72	2	36.1	2	0.059	2	0.031	2	6.83	2	-9	9	-9	9	7.4092	2	-9	9	-9	40.3	-9	-9	-9
122	2	499.4	34.644	2	34.643	2	8.742	8.688	26.889	0.034	0.0	2	37.0	2	2.94	2	44.3	2	0.011	2	0.007	2	1.73	2	-9	9	-9	9	7.3779	2	-9	9	-9	38.6	2.5	-9	-9
121	2	600.4	34.581	2	-9	5	7.340	7.281	27.049	0.033	0.0	2	40.5	2	3.25	2	59.5	2	0.002	2	0.000	2	1.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
120	2	700.3	34.566	2	34.566	2	6.355	6.291	27.172	0.034	0.0	2	44.7	2	3.25	2	66.9	2	0.002	2	0.001	2	3.01	2	-9	9	-9	9	7.3418	2	-9	9	-9	-9	-9	-9	-9
119	2	798.6	34.555	2	34.555	2	5.599	5.530	27.260	0.032	0.0	2	44.5	2	3.27	2	78.6	2	0.001	2	0.000	2	11.89	2	-9	9	-9	9	7.3469	2	-9	9	-9	42.5	-9	-9	-9
118	2	900.1	34.561	2	34.561	2	5.160	5.084	27.318	0.029	0.0	2	44.6	2	3.25	2	87.8	2	-9	9	-9	9	20.51	2	-9	9	-9	9	7.3606	2	-9	9	-9	-9	-9	-9	-9
117	2	998.5	34.563	2	34.563	2	4.687	4.606	27.373	0.026	0.0	2	44.7	2	3.21	2	95.6	2	-0.001	2	0.000	2	31.96	2	-9	9	-9	9	7.3806	2	-9	9	-9	-9	-9	-9	-9
116	2	1200.8	34.576	2	34.576	2	3.973	3.881	27.461	0.025	0.0	2	44.4	2	3.17	2	109.9	2	-9	9	-9	9	42.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1399.4	34.597	2	34.596	2	3.360	3.256	27.539	0.022	0.0	2	43.2	2	3.07	2	121.5	2	-9	9	-9	9	58.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1599.0	34.610	2	34.610	2	2.975	2.859	27.587	0.019	0.0	2	42.4	2	3.00	2	129.0	2	-9	9	-9	9	69.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1764.9	34.622	2	34.622	2	2.656	2.530	27.625	0.017	0.0	2	41.9	2	2.93	2	135.1	2	-9	9	-9	9	80.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1997.8	34.639	2	34.638	2	2.299	2.158	27.670	0.017	0.0	2	41.0	2	2.88	2	143.9	2	-9	9	-9	9	87.68	2	-9	9	-9	9	-9	9	-9	9	-9	36.5	-9	-9	-9
111	2	2199.2	34.654	2	34.654	2	2.045	1.890	27.703	0.014	0.0	2	40.4	2	2.80	2	149.7	2	-9	9	-9	9	97.59	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2397.8	34.662	2	34.662	2	1.916	1.746	27.720	0.013	0.0	2	40.0	2	2.76	2	150.9	2	-9	9	-9	9	104.01	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2598.8	34.667	2	34.666	2	1.848	1.661	27.731	0.012	0.0	2	39.1	2	2.74	2	157.9	2	-9	9	-9	9	108.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2801.7	34.669	2	34.669	2	1.826	1.621	27.736	0.011	0.0	2	38.2	2	2.72	2	156.5	2	-9	9	-9	9	110.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2999.4	34.672	2	34.671	2	1.767	1.544	27.744	0.010	0.0	2	38.5	2	2.69	2	154.1	2	-9	9	-9	9	117.18	6	-9	9	-9	9	-9	9	-9	9	-9	41.5	-9	-9	-9
106	2	3199.3	34.676	2	34.676	2	1.684	1.443	27.755	0.010	0.0	2	38.8	2	2.65	2	153.1	2	-9	9	-9	9	123.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3399.8	34.680	2	34.680	2	1.631	1.371	27.762	0.011	0.0	2	38.1	2	2.62	2	155.0	2	-9	9	-9	9	130.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3600.4	34.682	2	34.682	2	1.602	1.322	27.767	0.010	0.0	2	37.7	2	2.60	2	154.5	2	-9	9	-9	9	134.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3599.2	34.682	2	34.683	2	1.600	1.321	27.768	0.011	0.0	2	38.1	2	2.60	2	152.2	2	-9	9	-9	9	134.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3800.8	34.683	2	34.683	2	1.595	1.295	27.770	0.010	0.0	2	38.0	2	2.63	2	151.4	2	-9	9	-9	9	136.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3917.8	34.683	2	34.684	2	1.601	1.289	27.771	0.010	0.0	2	37.8	2	2.60	2	150.7	2	-9	9	-9	9	138.94	2	-9	9	-9	9	-9	9	-9	9	-9	39.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 166 DATE 4/19/94 LATITUDE 9°0.1'N Btm Depth: 3691
CAST 1 LONGITUDE 110°10.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	10.3	34.010	2	34.015	2	28.730	28.728	21.412	0.068	0.0	2	0.1	2	0.13	2	0.0	2	-9	9	-9	9	198.18	6	259	2	1913.0	2	8.1143	2	2232	6	1.60	-9	5.6	-9	-9
135	2	23.7	34.001	2	34.010	2	28.707	28.701	21.413	0.076	0.0	2	0.0	2	0.13	2	0.0	2	-9	9	-9	9	197.81	2	-9	9	-9	9	8.1149	2	-9	9	-9	86.0	5.8	-9	-9
134	2	49.5	33.985	2	33.993	2	28.633	28.621	21.428	0.134	0.0	2	0.0	2	0.15	2	0.0	2	-9	9	-9	9	197.27	2	260	2	1909.0	3	7.9409	4	2233	2	-9	80.6	6.0	-9	-9
133	2	74.0	34.309	2	34.291	2	22.737	22.722	23.489	0.070	2.2	2	9.4	2	1.15	2	5.3	2	-9	9	-9	9	110.01	2	-9	9	-9	9	7.8619	2	-9	9	-9	-9	3.5	-9	-9
132	2	99.6	34.762	2	34.764	2	14.768	14.753	25.842	0.038	0.1	2	28.6	2	2.38	2	20.9	2	-9	9	-9	9	15.06	2	1239	2	2216.5	2	7.5331	2	2283	2	-9	-9	-9	-9	-9
131	2	124.4	34.777	2	34.777	2	13.320	13.303	26.159	0.033	0.0	2	28.3	2	2.48	2	23.4	2	-9	9	-9	9	30.94	2	-9	9	-9	9	7.5488	2	-9	9	-9	-9	-9	-9	-9
130	2	150.8	34.781	2	34.780	2	12.406	12.386	26.345	0.033	0.0	2	29.4	2	3.77	4	25.5	2	-9	9	-9	9	30.58	2	1232	2	2225.0	2	7.5344	2	2297	2	-9	47.2	3.5	-9	-9
129	2	175.8	34.781	2	34.780	2	12.010	11.988	26.422	0.033	0.0	2	30.1	2	2.95	4	26.7	2	-9	9	-9	9	25.39	2	-9	9	-9	9	7.5126	2	-9	9	-9	-9	4.0	-9	-9
128	2	200.5	34.764	2	34.764	2	11.637	11.611	26.479	0.034	0.0	2	30.4	2	2.29	2	27.7	2	-9	9	-9	9	32.08	2	1303	2	2233.2	2	7.5158	2	2299	2	-9	62.4	-9	-9	-9
127	2	252.6	34.749	2	34.749	2	11.153	11.122	26.558	0.037	0.0	2	30.5	2	2.32	2	29.5	2	-9	9	-9	9	31.65	2	-9	9	2236.3	2	7.5059	2	2307	2	-9	-9	-9	-9	-9
126	2	300.3	34.732	2	34.732	2	10.696	10.659	26.628	0.038	0.0	2	32.3	2	2.42	2	31.6	2	-9	9	-9	9	25.85	2	1437	2	2246.9	2	7.4808	2	-9	5	-9	62.5	-9	-9	-9
125	2	348.5	34.712	2	34.711	2	10.260	10.219	26.690	0.038	0.0	2	33.4	2	2.54	2	34.6	2	-9	9	-9	9	17.66	2	-9	9	-9	9	7.4450	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.1	34.685	2	34.684	2	9.717	9.671	26.762	0.036	0.0	2	33.6	2	2.91	2	40.2	2	-9	9	-9	9	5.62	2	1749	2	2276.2	2	7.4043	2	2307	2	-9	63.7	-9	-9	-9
122	2	501.1	34.610	2	34.609	2	8.443	8.390	26.909	0.034	0.0	2	34.6	2	3.43	4	52.3	2	-9	9	-9	9	1.79	2	1902	2	2297.2	2	7.3700	2	2321	2	-9	-9	-9	-9	-9
121	2	600.8	34.573	2	34.573	2	7.348	7.288	27.042	0.032	0.0	2	37.8	2	3.14	2	62.3	2	-9	9	-9	9	2.07	2	1984	2	2311.2	2	7.3535	2	2331	2	-9	-9	-9	-9	-9
120	2	700.0	34.556	2	34.555	2	6.338	6.274	27.166	0.032	0.0	2	42.9	2	3.18	2	72.0	2	-9	9	-9	9	8.36	2	-9	9	2322.2	2	7.3458	2	2341	2	-9	-9	-9	-9	-9
119	2	798.7	34.553	2	34.554	2	5.681	5.611	27.248	0.029	0.0	2	44.8	2	3.21	2	79.3	2	-9	9	-9	9	11.76	2	2027	2	2329.1	2	7.3485	2	2345	2	-9	-9	-9	-9	-9
118	2	899.9	34.554	2	34.554	2	5.143	5.067	27.314	0.030	0.0	2	45.6	2	3.23	2	88.5	2	-9	9	-9	9	17.77	2	-9	9	2336.6	2	7.3554	2	2363	3	-9	-9	-9	-9	-9
117	2	999.7	34.557	2	34.557	2	4.786	4.704	27.358	0.028	0.0	2	44.5	2	3.21	2	96.9	2	-9	9	-9	9	24.00	2	1966	2	2340.7	2	7.3642	2	2354	2	-9	-9	-9	-9	-9
116	2	1097.2	34.565	2	34.565	2	4.362	4.275	27.411	0.025	0.0	2	44.8	2	3.19	2	104.2	2	-9	9	-9	9	32.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1197.5	34.573	2	34.573	2	4.017	3.924	27.454	0.025	0.0	2	44.2	2	3.17	2	110.9	2	-9	9	-9	9	39.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1297.6	34.584	2	34.585	2	3.634	3.537	27.502	0.024	0.0	2	43.7	2	3.11	2	117.8	2	-9	9	-9	9	48.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1398.6	34.592	2	34.592	2	3.373	3.269	27.535	0.022	0.0	2	42.7	2	3.06	2	124.6	2	-9	9	-9	9	55.20	2	-9	9	-9	9	7.4186	2	-9	9	-9	-9	-9	-9	-9
112	2	1497.9	34.600	2	34.599	2	3.168	3.059	27.560	0.020	0.0	2	42.6	2	3.01	2	128.1	2	-9	9	-9	9	62.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1600.3	34.608	2	34.608	2	2.967	2.851	27.586	0.018	0.0	2	42.6	2	2.98	2	132.3	2	-9	9	-9	9	68.51	6	-9	9	-9	9	7.4422	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.1	34.623	2	34.623	2	2.616	2.488	27.629	0.017	0.0	2	41.7	2	2.90	2	139.3	2	-9	9	-9	9	79.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2000.5	34.639	2	34.640	2	2.290	2.149	27.671	0.016	0.0	2	41.3	2	2.85	2	147.7	2	-9	9	-9	9	87.97	2	-9	9	-9	9	7.4772	2	-9	9	-9	-9	-9	-9	-9
108	2	2246.4	34.655	2	34.656	2	2.012	1.854	27.707	0.013	0.0	2	39.9	2	2.78	2	154.7	2	-9	9	-9	9	99.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2497.4	34.665	2	34.665	2	1.868	1.691	27.727	0.013	0.0	2	40.4	2	2.73	2	157.4	2	-9	9	-9	9	108.03	6	-9	9	-9	9	7.5184	2	-9	9	-9	-9	-9	-9	-9
106	2	2729.8	34.667	2	34.666	2	1.834	1.636	27.733	0.011	0.0	2	39.3	2	2.70	2	157.8	2	-9	9	-9	9	110.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2997.5	34.673	2	34.673	2	1.740	1.519	27.746	0.010	0.0	2	39.0	2	2.66	2	157.3	2	-9	9	-9	9	118.72	2	-9	9	-9	9	7.5387	2	-9	9	-9	-9	-9	-9	-9
104	2	3250.0	34.677	2	34.678	2	1.672	1.427	27.756	0.010	0.0	2	38.9	2	2.63	2	156.1	2	-9	9	-9	9	125.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3498.5	34.680	2	34.682	2	1.620	1.351	27.764	0.010	0.0	2	38.4	2	2.59	2	155.1	2	-9	9	-9	9	131.20	2	-9	9	-9	9	7.5598	2	-9	9	-9	-9	-9	-9	-9
102	2	3499.6	34.680	2	34.681	2	1.620	1.351	27.764	0.010	0.0	2	37.3	2	2.62	2	158.5	2	-9	9	-9	9	131.20	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3714.1	34.681	2	34.681	2	1.627	1.335	27.766	0.011	0.0	2	37.2	2	2.58	2	161.9	2	-9	9	-9	9	132.45	2	-9	9	-9	9	7.5634	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 167 DATE 4/19/94 LATITUDE 9°30.1'N Btm Depth: 3489
CAST 1 LONGITUDE 110°5.2'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	33.964	2	33.976	2	28.756	28.754	21.368	0.060	0.0	2	0.1	2	0.15	2	0.0	2	1.667	2	0.945	2	197.13	2	264	2	1908.3	2	8.1131	2	2228	2	-9	-9	-9	-9	-9
135	2	8.1	33.964	2	33.966	2	28.748	28.746	21.371	0.060	0.0	2	0.0	2	0.14	2	0.0	2	1.694	2	0.944	2	196.97	2	263	2	1904.5	2	8.1181	2	2230	2	-9	-9	-9	-9	-9
134	2	24.0	33.963	2	33.971	2	28.762	28.756	21.367	0.068	0.0	2	0.0	2	0.17	2	0.0	2	1.690	2	0.941	2	197.14	2	-9	9	-9	9	8.1175	2	-9	9	-9	-9	-9	-9	-9
133	2	49.8	33.971	2	33.981	2	28.611	28.599	21.425	0.087	0.0	2	0.0	2	0.16	2	0.0	2	1.687	2	0.944	2	197.56	2	279	2	1911.4	2	8.1104	2	2225	3	-9	-9	-9	-9	-9
132	2	75.1	34.305	2	34.295	2	22.886	22.871	23.444	0.091	1.3	2	12.0	2	1.21	2	5.0	2	1.398	2	0.801	2	101.05	2	-9	9	-9	9	7.8409	2	-9	9	-9	-9	-9	-9	-9
131	2	101.0	34.748	2	34.742	2	15.880	15.864	25.585	0.046	0.0	2	28.8	2	2.20	2	17.5	2	0.761	6	0.420	2	14.55	6	1225	2	2210.9	2	7.5409	2	2275	2	-9	-9	-9	-9	-9
130	2	124.2	34.795	2	34.796	2	13.596	13.578	26.117	0.038	0.0	2	31.0	2	2.30	2	21.9	2	0.536	2	0.284	2	8.55	2	-9	9	-9	9	7.4997	2	-9	9	-9	-9	-9	-9	-9
129	2	145.5	34.802	2	34.805	2	12.891	12.871	26.265	0.032	0.0	2	31.5	2	2.33	2	23.4	2	0.418	2	0.236	2	10.58	2	1399	2	2235.3	2	7.4948	2	2296	2	-9	-9	-9	-9	-9
128	2	173.1	34.791	2	34.790	2	12.260	12.237	26.381	0.033	0.0	2	31.6	2	2.38	2	26.0	2	0.328	2	0.204	2	10.34	2	-9	9	2240.3	2	7.4818	2	2295	2	-9	-9	-9	-9	-9
127	3	199.2	34.780	2	-9	5	11.951	11.925	26.432	0.035	-9	1	-9	1	-9	1	-9	1	0.306	2	0.174	2	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	252.6	34.746	2	34.745	2	11.182	11.151	26.550	0.038	0.0	2	32.1	2	2.41	2	29.9	2	0.214	2	0.117	2	18.36	2	1467	2	2246.1	2	7.4766	2	-9	5	-9	-9	-9	-9	-9
125	2	295.3	34.721	2	34.721	2	10.604	10.569	26.635	0.039	0.0	2	33.3	2	2.42	2	32.1	2	0.160	6	0.094	6	20.21	2	1508	2	2251.3	2	7.4655	2	2297	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	348.2	34.705	2	34.704	2	10.228	10.187	26.689	0.039	0.0	2	34.4	2	2.53	2	34.1	2	0.105	2	0.055	2	15.03	2	-9	9	-9	9	7.4425	2	-9	9	-9	-9	-9	-9	-9
122	2	374.0	34.696	2	34.695	2	10.019	9.975	26.719	0.039	0.0	2	34.5	2	2.56	2	35.7	2	0.084	2	0.051	2	11.17	2	-9	9	-9	9	7.4287	2	-9	9	-9	-9	-9	-9	-9
121	2	400.1	34.681	2	34.680	2	9.690	9.644	26.763	0.037	0.0	2	35.6	2	2.66	2	38.6	2	0.050	2	0.027	2	6.17	6	1731	2	2273.1	2	7.4075	2	2296	2	-9	-9	-9	-9	-9
120	2	505.5	34.614	2	34.613	2	8.558	8.504	26.894	0.035	0.0	2	35.7	2	2.90	2	48.7	2	0.009	2	0.003	2	1.89	2	1885	2	2292.7	2	7.3759	2	2309	2	-9	-9	-9	-9	-9
119	2	596.7	34.560	2	34.561	2	7.301	7.242	27.038	0.033	0.0	2	38.2	2	3.12	2	61.7	2	0.002	2	0.002	2	1.96	2	2000	2	2311.4	2	7.3535	2	2323	2	-9	-9	-9	-9	-9
118	2	695.0	34.552	2	34.554	2	6.324	6.261	27.165	0.031	0.0	2	42.6	2	3.19	2	71.5	2	-9	9	-9	9	4.11	2	2044	2	2325.0	2	7.3432	2	2326	2	-9	-9	-9	-9	-9
117	2	801.1	34.551	2	34.552	2	5.726	5.656	27.241	0.031	0.0	6	44.0	6	3.24	6	79.4	6	-0.001	2	0.000	2	7.73	2	2064	2	2333.2	2	7.3418	2	2351	2	-9	-9	-9	-9	-9
116	2	896.9	34.551	2	34.549	2	5.167	5.092	27.308	0.029	0.0	2	45.4	2	3.23	2	86.3	2	-9	9	-9	9	16.20	2	2021	2	2340.1	2	7.3521	2	2346	2	-9	-9	-9	-9	-9
115	2	997.9	34.556	2	34.556	2	4.710	4.629	27.365	0.027	0.0	2	44.4	2	3.22	2	96.8	2	0.002	2	0.001	2	26.63	2	1952	2	2342.3	2	7.3916	4	2355	6	-9	-9	-9	-9	-9
114	2	1203.2	34.574	2	34.575	2	4.016	3.923	27.455	0.024	0.0	2	43.4	2	3.17	2	114.1	2	-9	9	-9	9	40.23	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1400.4	34.594	2	34.593	2	3.425	3.321	27.531	0.021	0.0	2	42.6	2	3.05	2	127.6	2	-9	9	-9	9	57.58	2	-9	9	-9	9	7.4206	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.4	34.607	2	34.607	2	2.979	2.863	27.584	0.019	0.0	2	41.7	2	2.98	2	136.0	2	-9	9	-9	9	69.47	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1804.9	34.624	2	34.624	2	2.607	2.478	27.631	0.019	0.0	2	41.5	2	2.94	2	144.2	2	-9	9	-9	9	75.74	2	-9	9	-9	9	7.4557	2	-9	9	-9	-9	-9	-9	-9
110	2	1996.9	34.641	2	34.640	2	2.282	2.141	27.673	0.017	0.0	2	40.5	2	2.86	2	150.5	2	-9	9	-9	9	-9	9	-9	9	86.52	2	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2199.2	34.656	2	34.657	2	1.995	1.842	27.709	0.014	0.0	2	39.6	2	2.79	2	155.2	2	-9	9	-9	9	99.19	2	-9	9	-9	9	7.4996	2	-9	9	-9	-9	-9	-9	-9
108	2	2398.9	34.662	2	34.660	2	1.899	1.729	27.722	0.012	0.0	6	40.2	6	2.75	6	156.9	6	-9	9	-9	9	105.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2599.9	34.667	2	34.667	2	1.842	1.656	27.732	0.011	0.0	2	40.2	2	2.74	2	157.3	2	-9	9	-9	9	108.99	2	-9	9	-9	9	7.5210	2	-9	9	-9	-9	-9	-9	-9
106	3	2799.2	34.670	2	34.668	2	1.809	1.604	27.737	0.011	0.0	2	40.4	2	2.71	2	155.6	2	-9	9	-9	9	112.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2998.9	34.673	2	34.672	2	1.752	1.530	27.745	0.010	0.0	6	39.4	6	2.69	6	155.7	6	-9	9	-9	9	117.86	2	-9	9	-9	9	7.5382	2	-9	9	-9	-9	-9	-9	-9
104	2	3199.2	34.676	2	34.676	2	1.698	1.457	27.753	0.010	0.0	2	39.1	2	2.66	2	162.5	2	-9	9	-9	9	123.00	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3398.6	34.680	2	34.679	2	1.622	1.363	27.763	0.010	0.0	2	38.8	2	2.62	2	160.9	2	-9	9	-9	9	130.15	6	-9	9	-9	9	7.5583	2	-9	9	-9	-9	-9	-9	-9
102	2	3398.1	34.680	2	34.679	2	1.621	1.363	27.763	0.010	0.0	2	38.9	2	2.64	2	159.8	2	-9	9	-9	9	130.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3510.7	34.681	2	34.680	2	1.607	1.337	27.765	0.010	0.0	6	38.6	6	2.61	6	158.6	6	-9	9	-9	9	132.11	2	-9	9	-9	9	7.5608	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 168 DATE 4/19/94 LATITUDE 10°0.0'N Btm Depth: 3310
CAST 3 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	8.9	33.992	2	33.995	2	28.821	28.819	21.368	0.061	0.0	2	0.1	2	0.17	2	0.4	2	1.685	2	0.953	2	197.79	2	264	2	1908.5	2	8.1159	2	2235	2	1.50	-9	6.5	0.128	0.052
335	2	24.2	34.000	2	34.003	2	28.744	28.739	21.400	0.068	0.0	2	0.0	2	0.17	2	0.4	2	1.688	2	1.011	2	198.06	2	261	2	1908.8	2	8.1168	2	2232	2	1.70	85.7	6.5	0.130	0.060
334	2	49.6	34.089	2	34.095	2	28.236	28.224	21.637	0.068	0.0	2	0.0	2	0.17	2	0.7	2	1.735	2	0.948	2	201.99	2	269	2	1914.2	2	8.1121	2	2238	2	1.60	83.0	6.6	0.293	0.144
333	2	73.7	34.197	2	34.235	3	23.671	23.656	23.135	0.122	1.6	2	10.3	2	1.14	2	5.3	2	1.447	2	0.785	2	104.45	2	545	2	2059.9	2	7.8550	2	2252	2	0.70	68.7	3.7	0.435	0.405
332	2	100.7	34.704	2	34.708	2	16.747	16.731	25.351	0.055	0.0	2	27.9	2	2.19	2	17.5	2	0.803	2	0.428	2	13.24	2	1195	2	2204.6	2	7.5520	2	2277	2	-9	63.5	-9	0.114	0.199
331	2	124.9	34.782	2	34.783	2	14.265	14.247	25.967	0.036	0.0	2	30.8	2	2.33	2	21.6	2	0.581	6	0.310	6	5.35	6	1368	2	2229.2	2	7.5006	2	2286	2	-0.10	59.1	3.0	0.056	0.107
330	2	149.8	34.795	2	34.793	2	12.758	12.737	26.286	0.031	0.0	2	31.2	2	2.31	2	24.4	2	0.432	2	0.226	2	13.84	2	1373	2	2233.0	2	7.5019	2	-9	5	-0.10	53.0	-9	0.015	0.048
329	2	174.2	34.786	2	34.785	2	12.181	12.158	26.392	0.031	0.0	2	32.5	2	2.38	2	26.1	2	0.304	2	0.166	2	8.37	2	1464	2	2243.7	2	-9	9	2292	2	-0.10	-9	-9	0.003	0.026
328	2	193.9	34.775	2	34.774	2	11.884	11.859	26.441	0.034	0.0	2	32.8	2	2.36	2	26.7	2	0.284	2	0.150	2	10.71	2	1461	2	2245.2	2	7.4713	2	2294	2	-0.10	49.4	-9	0.003	0.029
327	2	249.4	34.749	2	34.749	2	11.284	11.253	26.534	0.037	0.0	2	33.1	2	2.43	2	28.6	2	0.204	2	0.114	2	13.01	2	1495	2	2249.1	2	7.4662	2	2299	2	-0.10	-9	-9	0.002	0.035
326	2	299.8	34.728	2	34.725	2	10.767	10.731	26.612	0.039	0.0	2	32.3	2	2.39	2	30.1	2	0.202	2	0.107	2	25.77	2	1444	2	2246.7	2	7.4821	2	2302	2	0.00	-9	-9	0.001	0.030
325	2	348.8	34.702	2	34.700	2	10.308	10.267	26.673	0.039	0.0	2	33.4	2	2.52	2	33.8	2	0.093	6	0.051	6	10.67	2	1630	2	2262.4	2	7.4337	2	2297	2	-0.10	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	399.1	34.676	2	34.674	2	9.815	9.769	26.738	0.037	0.0	2	34.6	2	2.68	2	37.5	2	0.033	2	0.020	2	2.87	2	1767	2	2277.7	2	7.3978	2	2309	2	-0.10	46.6	2.1	-9	-9
322	2	500.2	34.605	2	34.603	2	8.544	8.490	26.889	0.038	0.0	2	35.3	2	2.90	2	47.9	2	0.007	2	0.003	2	2.19	2	1884	3	2296.9	2	7.3739	2	2322	2	-0.20	49.6	2.3	-9	-9
321	2	599.6	34.569	2	34.569	2	7.228	7.169	27.056	0.035	0.0	2	37.4	2	3.14	2	61.5	2	0.002	2	0.002	2	1.01	2	2003	2	2316.6	2	7.3501	2	2326	2	-0.20	-9	-9	-9	-9
320	2	698.7	34.558	2	34.559	2	6.402	6.338	27.160	0.034	0.0	2	41.1	2	3.23	2	70.4	2	0.001	2	0.001	2	1.73	2	2065	2	2327.7	2	7.3410	2	2336	2	-0.20	-9	-9	-9	-9
319	2	798.9	34.550	2	34.550	2	5.710	5.640	27.242	0.033	0.0	2	43.0	2	3.27	2	78.5	2	-9	9	-9	9	7.19	2	2062	2	2333.4	2	7.3401	2	2345	2	-0.20	47.7	-9	-9	-9
318	2	898.2	34.552	2	34.551	2	5.234	5.158	27.301	0.031	0.0	2	44.0	2	3.24	2	85.7	2	-0.001	2	0.001	2	14.57	2	2026	2	2335.1	2	7.3496	2	2346	2	-0.30	-9	-9	-9	-9
317	3	999.2	34.557	2	34.556	2	4.779	4.698	27.359	0.030	0.0	2	44.6	2	3.28	2	92.5	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-0.30	46.3	-9	-9	-9
316	2	1099.5	34.565	2	34.564	2	4.341	4.254	27.413	0.028	0.0	2	43.9	2	3.23	2	99.3	2	-9	9	-9	9	29.44	2	1930	2	2347.7	2	7.3719	2	2372	2	-0.30	-9	-9	-9	-9
315	2	1199.0	34.573	2	34.574	2	3.998	3.905	27.457	0.026	0.0	2	43.7	2	3.18	2	105.3	2	0.001	2	0.002	2	36.08	6	1876	2	2350.7	2	7.3823	2	2381	2	-0.20	-9	-9	-9	-9
314	2	1299.2	34.583	2	34.583	2	3.671	3.573	27.498	0.025	0.0	2	44.0	2	3.13	2	110.9	2	-9	9	-9	9	44.03	2	1824	2	2354.8	2	7.3975	2	2389	2	-0.30	-9	-9	-9	-9
313	2	1398.0	34.589	2	-9	5	3.483	3.378	27.522	0.024	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	49.59	2	1790	2	2356.0	2	-9	9	2389	2	-0.20	-9	-9	-9	-9
312	2	1498.3	34.599	2	34.598	2	3.239	3.128	27.553	0.024	0.0	2	42.7	2	3.10	2	123.3	2	-9	9	-9	9	54.61	2	1758	2	2361.3	2	7.4156	2	2403	2	-0.20	-9	-9	-9	-9
311	2	1598.7	34.607	2	34.606	2	2.996	2.880	27.583	0.021	0.0	2	41.5	2	3.03	2	132.7	2	-0.009	2	-0.002	2	62.58	2	1704	2	2361.6	2	7.4310	2	2399	2	-0.20	-9	-9	-9	-9
310	2	1798.4	34.624	2	34.626	2	2.637	2.508	27.628	0.020	0.0	2	41.2	2	2.95	2	140.9	2	-9	9	-9	9	73.73	2	1613	2	2362.4	2	7.4535	2	2411	2	-0.30	-9	-9	-9	-9
309	2	1997.1	34.641	2	34.641	2	2.298	2.157	27.671	0.017	0.0	2	40.2	2	2.82	2	147.5	2	-9	9	-9	9	85.57	2	1536	2	2365.0	2	7.4748	2	2432	3	-0.20	39.3	-9	-9	-9
308	2	2193.3	34.654	2	34.654	2	2.043	1.889	27.703	0.016	0.0	2	39.2	2	2.79	2	151.7	2	-9	9	-9	9	96.80	2	1457	2	2364.2	2	7.4973	2	2427	2	-0.20	-9	-9	-9	-9
307	2	2399.0	34.661	2	34.661	2	1.923	1.753	27.720	0.014	0.0	2	38.7	2	2.75	2	153.4	2	-9	9	-9	9	103.74	2	1411	2	2363.7	2	7.5110	2	2435	2	-0.10	-9	-9	-9	-9
306	2	2600.6	34.667	2	34.666	2	1.837	1.650	27.732	0.013	0.0	2	38.3	2	2.71	2	152.3	2	-9	9	-9	9	109.59	2	1364	2	2361.3	2	7.5230	2	2437	2	-0.10	-9	-9	-9	-9
305	2	2801.3	34.671	2	34.670	2	1.766	1.562	27.742	0.010	0.0	2	38.1	2	2.68	2	151.8	2	-9	9	-9	9	115.46	6	1336	2	2360.9	2	7.5336	2	2429	2	0.00	-9	-9	-9	-9
304	2	2999.4	34.674	2	34.674	2	1.718	1.496	27.749	0.011	0.0	2	38.1	2	2.63	2	150.8	2	-9	9	-9	9	120.23	2	1305	2	2356.5	2	7.5416	2	2435	2	-0.10	-9	-9	-9	-9
303	2	3198.7	34.676	2	34.679	2	1.683	1.443	27.755	0.011	0.0	2	38.2	2	2.59	2	149.9	2	-9	9	-9	9	123.84	2	1284	2	2354.2	2	7.5489	2	2428	2	-9	-9	-9	-9	-9
302	2	3196.4	34.676	2	34.676	2	1.683	1.443	27.755	0.011	0.0	2	37.1	2	2.63	2	153.2	2	-9	9	-9	9	123.85	2	1269	2	2354.7	2	7.5483	2	2425	3	0.00	-9	-9	-9	-9
301	2	3342.1	34.678	2	34.679	2	1.651	1.397	27.759	0.012	0.0	2	36.9	2	2.62	2	157.1	2	-9	9	-9	9	127.53	2	1258	2	2355.4	2	7.5545	2	2433	2	0.00	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 169 DATE 4/20/94 LATITUDE 10°40.0'N Btm Depth: 3804
CAST 1 LONGITUDE 109°60.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	33.918	2	33.921	2	29.074	29.072	21.228	0.075	0.0	2	0.0	2	0.15	2	0.0	2	1.678	2	0.946	2	198.28	2	255	2	1907.3	2	8.1196	2	2235	6	-9	-9	-9	-9	-9
135	2	23.4	33.910	2	33.914	2	28.948	28.942	21.265	0.092	0.0	2	0.0	2	0.13	2	0.0	2	1.677	6	0.944	6	198.39	2	-9	9	-9	9	8.1207	2	-9	9	-9	-9	-9	-9	-9
134	2	47.5	33.898	2	33.904	2	28.721	28.709	21.333	0.092	0.0	2	0.0	2	0.16	2	0.0	2	1.702	2	0.952	2	198.88	2	258	2	1908.6	2	-9	9	2231	2	-9	-9	-9	-9	-9
133	2	74.1	34.083	2	34.083	2	25.847	25.830	22.394	0.118	1.1	2	2.8	2	0.62	2	0.4	2	-9	1	-9	1	168.22	2	-9	9	-9	9	8.0010	2	-9	9	-9	-9	-9	-9	-9
132	3	99.1	34.661	2	34.660	2	17.428	17.411	25.156	0.061	0.0	2	26.0	2	2.12	2	13.8	2	-9	1	-9	1	22.74	2	1068	3	2189.6	3	-9	9	2279	2	-9	-9	-9	-9	-9
131	2	125.3	34.775	2	34.776	2	15.039	15.020	25.794	0.044	0.0	2	30.8	2	2.36	2	19.2	2	0.639	6	0.341	6	5.88	2	-9	9	-9	9	7.5054	2	-9	9	-9	-9	-9	-9	-9
130	2	149.6	34.803	2	34.804	2	13.651	13.630	26.112	0.036	0.0	2	32.3	2	2.38	2	21.0	2	0.515	2	0.272	2	3.66	2	1371	2	2233.0	2	7.4944	2	2285	2	-9	-9	-9	-9	-9
129	2	174.2	34.816	2	34.819	2	12.977	12.953	26.260	0.034	0.0	2	32.3	2	2.41	2	22.4	2	0.402	2	0.217	2	5.42	2	-9	9	-9	9	7.4844	2	-9	9	-9	-9	-9	-9	-9
128	2	198.5	34.797	2	34.796	2	12.333	12.307	26.373	0.035	0.0	2	32.7	2	2.46	2	24.5	2	0.308	2	0.175	2	5.21	2	1448	2	2245.0	2	7.4696	2	2292	2	-9	-9	-9	-9	-9
127	2	224.5	34.778	2	34.775	2	11.982	11.953	26.425	0.036	0.0	2	32.8	2	2.43	2	25.9	2	0.290	2	0.156	2	10.85	2	1452	2	2243.2	2	7.4772	2	2299	2	-9	-9	-9	-9	-9
126	2	248.8	34.769	2	34.769	2	11.752	11.720	26.463	0.036	0.0	2	33.1	2	2.45	2	26.0	2	0.250	2	0.139	2	9.43	2	1477	2	2247.1	2	7.4681	2	2300	2	-9	-9	-9	-9	-9
125	2	298.9	34.745	2	34.744	2	11.203	11.166	26.547	0.036	0.0	2	33.0	2	2.56	2	28.3	2	0.194	2	0.100	2	3.67	2	-9	9	2259.5	2	7.4372	2	2297	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	399.6	34.685	2	34.684	2	10.074	10.028	26.701	0.046	0.0	2	30.3	2	2.77	2	34.1	2	0.046	6	0.027	6	1.08	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
122	2	499.2	34.615	2	34.614	2	8.661	8.607	26.879	0.044	0.0	2	32.2	2	3.00	2	46.0	2	0.005	2	0.004	2	0.87	2	1898	2	2299.2	2	7.3715	2	2311	2	-9	-9	-9	-9	-9
121	2	598.8	34.570	2	34.568	2	7.109	7.051	27.073	0.037	0.0	2	38.5	2	3.22	2	60.3	2	-0.002	2	0.001	2	1.60	2	2008	2	2319.5	2	7.3482	2	2328	2	-9	-9	-9	-9	-9
120	2	698.6	34.557	2	34.557	2	6.285	6.221	27.175	0.035	0.0	2	42.2	2	3.30	2	69.6	2	-0.003	2	0.003	2	2.17	2	2073	2	2330.1	3	7.3395	2	2362	2	-9	-9	-9	-9	-9
119	2	801.9	34.554	2	34.553	2	5.693	5.623	27.247	0.035	0.0	2	44.3	2	3.28	2	79.5	2	-0.003	2	-0.001	2	5.31	2	2087	2	2337.6	2	7.3348	2	2350	2	-9	-9	-9	-9	-9
118	2	898.0	34.554	2	34.553	2	5.164	5.089	27.311	0.033	0.0	2	45.9	2	3.27	2	86.9	2	-9	9	-9	9	11.67	2	2066	2	2343.3	2	7.3422	2	2360	2	-9	-9	-9	-9	-9
117	2	998.2	34.560	2	34.557	2	4.702	4.621	27.369	0.031	0.0	2	45.6	2	3.31	2	95.6	2	0.002	2	0.000	2	18.98	2	2028	2	2348.8	2	7.3505	2	2360	2	-9	-9	-9	-9	-9
116	2	1099.8	34.569	2	34.568	2	4.183	4.097	27.433	0.029	0.0	2	43.7	2	3.25	2	108.8	2	-9	9	-9	9	31.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1199.8	34.575	2	34.574	2	3.944	3.851	27.463	0.026	0.0	2	43.6	2	3.20	2	114.4	2	-9	9	-9	9	38.84	2	-9	9	-9	9	7.3869	2	-9	9	-9	-9	-9	-9	-9
114	2	1297.2	34.584	2	34.583	2	3.647	3.549	27.501	0.026	0.0	2	43.4	2	3.15	2	119.3	2	-9	9	-9	9	45.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1380.6	34.592	2	34.591	2	3.419	3.317	27.530	0.025	0.0	2	43.2	2	3.10	2	122.6	2	-9	9	-9	9	51.20	6	-9	9	-9	9	7.4080	2	-9	9	-9	-9	-9	-9	-9
112	2	1500.3	34.601	2	34.601	2	3.162	3.052	27.562	0.024	0.0	2	42.4	2	3.04	2	127.6	2	-9	9	-9	9	58.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1598.4	34.609	2	34.609	2	2.951	2.835	27.588	0.023	0.0	2	42.0	2	3.03	2	131.8	2	-9	9	-9	9	64.40	2	-9	9	-9	9	7.4341	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.5	34.623	2	34.623	2	2.645	2.516	27.627	0.021	0.0	2	41.5	2	2.97	2	139.1	2	-9	9	-9	9	72.89	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1998.3	34.641	2	34.641	2	2.285	2.144	27.672	0.019	0.0	2	40.9	2	2.88	2	145.5	2	-9	9	-9	9	85.41	6	-9	9	-9	9	7.4730	2	-9	9	-9	-9	-9	-9	-9
108	2	2247.9	34.656	2	34.656	2	2.006	1.849	27.708	0.016	0.0	2	39.7	2	2.80	2	150.6	2	-9	9	-9	9	85.62	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2489.4	34.663	2	34.662	2	1.899	1.721	27.723	0.014	0.0	2	39.1	2	2.76	2	152.1	2	-9	9	-9	9	98.58	2	-9	9	-9	9	7.5134	2	-9	9	-9	-9	-9	-9	-9
106	2	2748.3	34.668	2	34.668	2	1.819	1.619	27.735	0.012	0.0	2	38.8	2	2.71	2	152.5	2	-9	9	-9	9	105.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3000.7	34.673	2	34.672	2	1.725	1.503	27.748	0.012	0.0	2	38.0	2	2.67	2	151.8	2	-9	9	-9	9	110.17	2	-9	9	-9	9	7.5379	2	-9	9	-9	-9	-9	-9	-9
104	2	3249.8	34.678	2	34.677	2	1.630	1.386	27.760	0.011	0.0	2	37.9	2	2.61	2	151.0	2	-9	9	-9	9	128.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3248.3	34.678	2	34.679	2	1.628	1.384	27.760	0.010	0.0	2	38.0	2	2.58	2	150.2	2	-9	9	-9	9	128.09	6	-9	9	-9	9	7.5516	2	-9	9	-9	-9	-9	-9	-9
102	2	3501.7	34.682	2	34.680	2	1.555	1.288	27.770	0.010	0.0	2	37.2	2	2.57	2	151.6	2	-9	9	-9	9	136.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3843.7	34.683	2	34.682	2	1.569	1.265	27.772	0.010	0.0	2	35.9	2	2.59	2	157.3	2	-9	9	-9	9	138.18	2	-9	9	-9	9	7.5652	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 170 DATE 4/20/94 LATITUDE 11°20.0'N Btm Depth: 3521
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.9	33.799	2	33.804	2	28.841	28.838	21.216	0.065	0.0	2	0.0	2	0.14	2	2.3	2	1.671	2	0.934	2	197.77	2	255	2	1898.5	2	8.1260	2	2224	2	1.70	-9	-9	-9	-9
135	2	9.9	33.798	2	33.800	2	28.840	28.838	21.216	0.065	0.0	2	0.0	2	0.13	2	2.4	2	1.673	2	0.932	2	197.79	6	254	2	1901.9	2	8.1252	2	2221	3	-9	86.0	7.7	-9	-9
134	2	24.3	33.800	2	33.803	2	28.850	28.844	21.215	0.069	0.0	2	0.0	2	0.11	2	2.5	2	1.678	2	0.954	2	198.29	2	-9	9	-9	9	8.1241	2	-9	9	-9	-9	6.6	-9	-9
133	2	49.9	33.801	2	33.805	2	28.853	28.841	21.217	0.071	0.0	2	0.0	2	0.12	2	3.0	2	1.678	6	0.941	6	197.48	2	264	2	1899.8	2	8.1252	2	2225	2	-9	99.5	6.7	-9	-9
132	2	74.5	33.813	2	33.816	2	27.236	27.219	21.755	0.069	0.2	2	0.9	2	0.28	2	3.2	2	1.694	2	0.957	2	182.55	2	-9	9	-9	9	8.0600	2	-9	9	-9	91.0	7.2	-9	-9
131	2	99.4	34.277	2	34.260	2	22.433	22.413	23.553	0.086	0.0	2	16.4	2	1.31	2	8.9	2	1.558	2	0.797	2	88.78	2	636	2	2089.4	3	7.7943	2	2246	2	-9	83.8	5.9	-9	-9
130	2	124.9	34.705	2	34.717	2	16.769	16.749	25.347	0.047	0.0	2	28.6	2	2.21	2	19.8	2	0.813	2	0.431	2	9.16	2	-9	9	-9	9	7.5370	2	-9	9	-9	65.5	5.0	-9	-9
129	2	149.4	34.783	2	34.792	2	14.219	14.197	25.978	0.042	0.0	2	31.4	2	2.35	2	24.2	2	0.514	2	0.278	2	3.60	2	1400	2	2234.1	2	7.4916	2	2283	2	-9	-9	-9	-9	-9
128	3	173.7	34.807	2	34.807	2	13.168	13.144	26.214	0.036	0.0	2	31.9	2	2.36	2	25.8	2	0.422	2	0.231	2	4.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	200.1	34.806	2	34.803	2	12.633	12.606	26.321	0.034	0.0	2	32.4	2	2.38	2	27.1	2	0.298	6	0.162	6	3.55	2	1465	2	2242.5	2	7.4742	2	2288	2	-9	54.0	3.8	-9	-9
126	2	250.2	34.776	2	34.774	2	11.898	11.866	26.441	0.035	0.0	2	33.0	2	2.40	2	29.0	2	-9	1	-9	1	5.79	2	1504	2	2248.3	2	7.4616	2	2289	2	-9	-9	-9	-9	-9
125	2	300.1	34.745	2	34.744	2	11.205	11.167	26.546	0.038	0.0	2	33.2	2	2.50	2	31.9	2	0.154	2	0.088	2	5.18	2	1592	2	2258.1	2	7.4397	2	2295	2	-9	53.3	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	347.3	34.722	2	34.721	2	10.745	10.702	26.612	0.036	0.0	2	32.8	2	2.55	2	34.1	2	0.100	2	0.055	2	4.55	2	-9	9	-9	9	7.4220	2	-9	9	-9	-9	-9	-9	-9
122	2	400.0	34.680	2	34.679	2	9.997	9.950	26.711	0.036	0.0	2	31.3	2	2.70	2	39.6	2	0.041	2	0.023	2	0.60	2	1795	2	2282.2	2	7.3952	2	2294	3	-9	47.7	-9	-9	-9
121	2	497.8	34.612	2	34.611	2	8.604	8.551	26.885	0.046	0.0	2	31.7	2	2.95	2	51.4	2	-9	9	-9	9	1.01	2	1915	2	2301.7	2	7.3696	2	2316	2	-9	-9	-9	-9	-9
120	2	599.0	34.571	2	34.568	2	7.289	7.230	27.049	0.039	0.0	2	36.6	2	3.13	2	63.6	2	0.046	2	0.019	2	1.47	2	2003	2	2317.8	2	7.3524	2	2327	2	-9	-9	-9	-9	-9
119	2	699.3	34.554	2	34.553	2	6.288	6.225	27.171	0.035	0.0	2	41.5	2	3.23	2	74.6	2	-9	9	-9	9	1.59	2	2083	2	2331.7	2	7.3373	2	2339	2	-9	-9	-9	-9	-9
118	2	798.2	34.551	2	34.550	2	5.710	5.641	27.243	0.037	0.0	2	43.7	2	3.27	2	81.4	2	-9	9	-9	9	3.19	2	2106	2	2339.6	2	-9	1	2340	2	-9	-9	-9	-9	-9
117	2	901.7	34.554	2	34.554	2	4.987	4.913	27.331	0.034	0.0	2	44.2	2	3.48	4	89.3	2	0.003	2	0.003	2	14.36	2	2053	2	2345.4	2	7.3453	2	2350	2	-9	-9	-9	-9	-9
116	2	997.6	34.558	2	34.558	2	4.569	4.489	27.382	0.031	0.0	2	43.8	2	3.20	2	95.7	2	-9	9	-9	9	26.24	2	1979	2	2345.9	2	7.3708	2	2361	6	-9	48.8	-9	-9	-9
115	2	1098.9	34.563	2	34.564	2	4.281	4.194	27.418	0.030	0.0	2	43.4	2	3.18	2	100.8	2	0.007	2	-0.001	2	33.24	2	-9	9	-9	9	7.3792	2	-9	9	-9	-9	-9	-9	-9
114	2	1198.1	34.575	2	34.575	2	3.923	3.831	27.465	0.028	0.0	2	43.3	2	3.14	2	108.0	2	-9	9	-9	9	39.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1296.8	34.584	2	34.585	2	3.643	3.545	27.501	0.028	0.0	2	43.0	2	3.12	2	113.9	2	0.002	2	-0.001	2	43.92	2	-9	9	-9	9	7.3949	2	-9	9	-9	-9	-9	-9	-9
112	2	1399.7	34.592	2	34.591	2	3.402	3.298	27.532	0.025	0.0	2	42.7	2	3.07	2	119.2	2	-9	9	-9	9	50.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1499.7	34.600	2	34.601	2	3.174	3.064	27.560	0.025	0.0	2	42.2	2	3.03	2	126.2	2	-9	9	-9	9	57.51	2	-9	9	-9	9	7.4207	2	-9	9	-9	-9	-9	-9	-9
110	2	1590.0	34.608	2	34.609	2	2.978	2.863	27.585	0.024	0.0	2	41.9	2	2.98	2	130.6	2	-9	9	-9	9	63.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1799.3	34.624	2	34.623	2	2.608	2.479	27.631	0.022	0.0	2	40.5	2	2.91	2	138.9	2	-9	9	-9	9	74.26	2	-9	9	-9	9	7.4514	2	-9	9	-9	-9	-9	-9	-9
108	2	2002.2	34.640	2	34.639	2	2.276	2.135	27.672	0.020	0.0	2	40.3	2	2.83	2	146.1	2	-9	9	-9	9	85.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2247.6	34.654	2	34.654	2	2.015	1.857	27.706	0.017	0.0	2	39.3	2	2.76	2	151.7	2	-9	9	-9	9	98.85	6	-9	9	-9	9	7.4987	2	-9	9	-9	-9	-9	-9	-9
106	2	2497.9	34.662	2	34.661	2	1.890	1.712	27.723	0.015	0.0	2	38.6	2	2.67	2	153.0	2	-9	9	-9	9	105.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2747.4	34.668	2	34.667	2	1.772	1.574	27.738	0.013	0.0	2	38.5	2	2.67	2	156.1	2	-9	9	-9	9	114.24	6	-9	9	-9	9	7.5259	2	-9	9	-9	-9	-9	-9	-9
104	2	3001.4	34.673	2	34.671	2	1.700	1.479	27.749	0.011	0.0	2	37.5	2	2.62	2	156.9	2	-9	9	-9	9	120.02	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3249.0	34.676	2	34.678	2	1.634	1.390	27.758	0.011	0.0	2	37.2	2	2.58	2	155.7	2	-9	9	-9	9	126.94	2	-9	9	-9	9	7.5486	2	-9	9	-9	-9	-9	-9	-9
102	2	3247.5	34.677	2	34.676	2	1.634	1.390	27.759	0.011	0.0	2	37.2	2	2.58	2	155.4	2	-9	9	-9	9	127.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3542.3	34.683	2	34.683	2	1.523	1.252	27.773	0.010	0.0	2	36.6	2	2.52	2	153.9	2	-9	9	-9	9	140.65	2	-9	9	-9	9	7.5663	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 171 DATE 4/20/94 LATITUDE 12°0.1'N Btm Depth: 3142
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.0	33.847	2	33.848	2	28.946	28.944	21.218	0.062	0.0	2	0.1	2	0.12	2	0.0	2	1.666	2	0.938	2	196.71	2	255	2	1903.1	2	8.1214	2	2229	2	1.80	-9	-9	-9	-9
135	2	8.5	33.847	2	33.848	2	28.943	28.941	21.219	0.062	0.0	2	0.1	2	0.14	2	0.0	2	1.666	2	0.925	2	196.78	2	254	2	1903.1	2	8.1209	2	2237	2	-9	-9	-9	-9	-9
134	2	23.9	33.847	2	33.848	2	28.945	28.939	21.219	0.067	0.0	2	0.0	2	0.14	2	0.0	2	1.669	2	0.928	2	196.81	2	255	2	1903.3	2	8.1229	2	2235	2	-9	-9	-9	-9	-9
133	2	48.0	33.846	2	33.847	2	28.951	28.940	21.218	0.067	0.0	2	0.1	2	0.14	2	0.0	2	1.662	2	0.926	2	196.67	2	255	2	1903.0	2	8.1224	2	2231	2	-9	-9	-9	-9	-9
132	2	74.0	33.843	2	33.848	2	28.908	28.891	21.232	0.068	0.0	2	0.0	2	0.13	2	0.0	2	-9	9	-9	9	196.02	2	256	2	1903.6	2	8.1220	2	2232	2	-9	-9	-9	-9	-9
131	2	99.9	33.810	2	33.819	2	26.352	26.330	22.033	0.078	0.4	2	6.0	2	0.62	2	0.4	2	1.674	2	0.937	2	154.06	6	376	2	1977.2	2	7.9787	2	2236	2	-9	-9	-9	-9	-9
130	2	124.9	34.266	2	34.234	3	22.441	22.416	23.543	0.058	0.1	2	16.0	2	1.30	2	5.7	2	-9	9	-9	9	91.73	2	605	2	2081.0	3	7.8039	2	2254	2	-9	-9	-9	-9	-9
129	2	149.4	34.724	2	34.719	2	16.379	16.355	25.454	0.041	0.0	2	29.2	2	2.24	2	17.0	2	0.782	2	0.423	2	91.57	3	1229	2	2209.1	2	7.5374	2	2285	2	-9	-9	-9	-9	-9
128	3	175.6	34.801	2	-9	5	13.929	13.904	26.053	0.058	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	9.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	199.6	34.824	2	-9	5	13.178	13.150	26.226	0.053	-9	9	-9	9	-9	9	-9	9	0.375	2	0.211	2	0.94	2	1442	2	2242.2	2	-9	9	2304	2	-9	-9	-9	-9	-9
126	3	250.6	34.795	2	-9	5	12.215	12.182	26.395	0.050	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	302.0	34.754	2	34.753	2	11.420	11.382	26.514	0.048	1.7	2	28.5	2	2.56	2	30.4	2	0.132	2	0.076	2	0.61	2	1634	2	2262.8	2	7.4287	2	2303	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	350.5	34.707	2	34.707	2	10.612	10.569	26.624	0.049	1.1	2	29.0	2	2.64	2	34.0	2	0.067	2	0.039	2	0.91	2	1722	2	2274.0	2	7.4058	2	2317	3	-9	-9	-9	-9	-9
122	2	404.9	34.655	2	34.654	2	9.775	9.728	26.729	0.039	0.0	2	33.2	2	2.71	2	37.4	2	0.038	2	0.024	2	2.72	6	1774	2	2276.9	2	7.3958	2	2302	2	-9	-9	-9	-9	-9
121	2	499.0	34.589	2	34.586	2	8.557	8.504	26.875	0.039	0.0	2	33.9	2	2.92	2	48.2	2	-9	9	-9	9	1.85	2	1898	3	2295.6	2	-9	9	2314	2	-9	-9	-9	-9	-9
120	2	600.6	34.552	2	34.550	2	7.314	7.255	27.030	0.035	0.0	2	37.0	2	3.10	2	61.2	2	2.230	4	0.002	6	1.53	2	1986	2	2313.5	2	7.3518	2	2317	2	-9	-9	-9	-9	-9
119	2	701.0	34.545	2	34.545	2	6.394	6.330	27.151	0.033	0.0	2	40.8	2	3.23	2	71.3	2	-9	9	-9	9	1.56	2	2066	2	2326.2	2	7.3385	2	2330	2	-9	-9	-9	-9	-9
118	2	799.2	34.538	2	34.537	2	5.748	5.678	27.228	0.035	0.0	2	43.5	2	3.26	2	79.1	2	0.000	2	0.000	2	3.56	2	2089	2	2341.1	3	7.3309	2	2337	2	-9	-9	-9	-9	-9
117	2	902.0	34.542	2	34.540	2	5.169	5.093	27.301	0.033	0.1	2	44.4	2	3.21	2	86.9	2	-9	9	-9	9	6.50	2	2108	2	2349.1	3	7.3303	2	2344	2	-9	-9	-9	-9	-9
116	2	983.5	34.549	2	34.549	2	4.735	4.655	27.357	0.031	0.1	2	44.8	2	3.26	2	93.2	2	0.001	2	-0.001	2	13.76	2	2068	2	2354.4	3	7.3426	2	2355	2	-9	-9	-9	-9	-9
115	2	1098.6	34.561	2	34.561	2	4.247	4.161	27.420	0.030	0.1	2	44.8	2	3.25	2	102.3	2	-9	9	-9	9	22.93	2	2012	2	2360.1	3	7.3561	2	2363	2	-9	-9	-9	-9	-9
114	2	1199.5	34.572	2	34.573	2	3.937	3.845	27.462	0.028	0.1	2	44.5	2	3.20	2	111.0	2	-9	9	-9	9	29.76	2	1955	2	2362.3	3	-9	1	2382	2	-9	-9	-9	-9	-9
113	2	1298.0	34.580	2	34.578	2	3.629	3.532	27.500	0.028	0.1	2	43.7	2	3.16	2	118.6	2	-9	9	-9	9	35.73	2	1923	2	2365.3	3	7.3775	2	2386	2	-9	-9	-9	-9	-9
112	2	1402.2	34.592	2	34.592	2	3.360	3.256	27.536	0.026	0.1	2	43.2	2	3.09	2	124.0	2	0.004	2	-0.002	2	45.17	2	1840	2	2367.1	3	7.3966	2	2390	2	-9	-9	-9	-9	-9
111	2	1499.7	34.601	2	34.601	2	3.126	3.017	27.565	0.025	0.1	2	42.3	2	3.04	2	129.2	2	-9	9	-9	9	52.49	2	1793	2	2367.5	3	7.4104	2	2394	2	-9	-9	-9	-9	-9
110	2	1599.7	34.610	2	34.610	2	2.906	2.791	27.593	0.022	0.0	2	41.8	2	2.98	2	131.4	2	-9	9	-9	9	-9	1	1713	2	-9	1	7.4314	2	2403	2	-9	-9	-9	-9	-9
109	2	1798.8	34.629	2	34.630	2	2.483	2.356	27.646	0.021	0.0	2	40.5	2	2.87	2	140.4	2	-9	9	-9	9	77.77	2	1604	2	2367.3	3	7.4567	2	2414	2	-9	-9	-9	-9	-9
108	2	2000.7	34.643	2	34.643	2	2.223	2.083	27.679	0.018	0.0	2	39.6	2	2.80	2	145.8	2	-9	9	-9	9	89.91	2	1528	2	2365.7	2	7.4787	2	2421	2	-9	-9	-9	-9	-9
107	2	2198.9	34.652	2	34.652	2	2.056	1.902	27.701	0.017	0.0	2	39.0	2	2.75	2	149.1	2	-9	9	-9	9	96.57	6	1470	2	2365.2	2	7.4948	2	2424	2	-9	-9	-9	-9	-9
106	2	2398.6	34.658	2	34.658	2	1.957	1.787	27.714	0.015	0.0	2	38.6	2	2.71	2	150.2	2	-9	9	-9	9	102.24	2	1430	2	2364.8	2	7.5068	2	2426	2	-9	-9	-9	-9	-9
105	2	2600.0	34.664	2	34.663	2	1.855	1.668	27.728	0.014	0.0	2	38.2	2	2.68	2	151.7	2	-9	9	-9	9	108.38	2	1398	2	2361.6	2	7.5190	2	2430	2	-9	-9	-9	-9	-9
104	2	2798.1	34.670	2	34.670	2	1.756	1.552	27.742	0.012	0.0	2	37.7	2	2.62	2	151.6	2	-9	9	-9	9	115.70	2	1355	2	2358.4	2	7.5310	2	2429	2	-9	-9	-9	-9	-9
103	2	3000.8	34.672	2	34.672	2	1.727	1.505	27.747	0.011	0.0	2	37.7	2	2.61	2	152.5	2	-9	9	-9	9	118.91	2	1324	2	2355.9	2	7.5378	2	2429	2	-9	-9	-9	-9	-9
102	2	3000.6	34.672	2	34.672	2	1.727	1.505	27.747	0.011	0.0	2	37.7	2	2.63	2	156.4	2	-9	9	-9	9	119.23	2	1329	2	2356.1	2	7.5359	2	2432	2	-9	-9	-9	-9	-9
101	2	3245.8	34.678	2	34.679	2	1.589	1.346	27.763	0.010	0.0	6	36.9	6	2.55	6	158.1	6	-9	9	-9	9	130.78	2	1268	2	2347.4	2	-9	1	2425	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 172 DATE 4/20/94 LATITUDE 12°40.0'N Btm Depth: 4186
CAST 3 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	8.8	33.768	2	33.770	2	28.975	28.973	21.148	0.064	0.0	2	0.0	2	0.13	2	0.0	2	1.676	2	0.943	2	198.20	2	-9	9	1894.4	2	8.1259	2	2225	6	-9	72.9	6.6	0.086	0.028
335	2	9.9	33.767	2	33.770	2	28.949	28.947	21.156	0.067	0.0	2	0.0	2	0.10	2	0.0	2	1.688	2	0.946	2	198.28	6	250	2	-9	9	8.1265	2	-9	9	-9	-9	5.3	0.085	0.028
334	2	23.8	33.762	2	33.765	2	28.854	28.848	21.186	0.076	0.0	2	0.0	2	0.12	2	0.0	2	1.677	2	0.934	2	198.65	2	-9	9	-9	9	8.1267	2	-9	9	-9	72.7	6.1	0.097	0.035
333	2	49.9	33.743	2	33.745	2	28.662	28.650	21.237	0.075	0.0	2	0.0	2	0.14	2	0.0	2	1.690	2	0.933	2	198.61	2	264	2	1893.3	2	8.1223	2	2228	2	-9	-9	5.8	0.226	0.098
332	3	75.0	33.858	2	33.861	2	28.542	28.525	21.364	0.078	0.0	2	0.0	2	0.15	2	0.0	2	1.699	2	0.961	2	199.30	2	-9	9	-9	9	-9	9	-9	9	-9	-9	6.0	0.332	0.195
331	2	97.8	33.955	2	33.976	2	27.295	27.273	21.844	0.087	0.3	2	0.8	2	0.34	2	0.1	2	1.715	6	0.950	6	183.89	2	309	2	1942.4	2	8.0594	2	2246	2	-9	60.9	-9	0.322	0.351
330	2	149.2	34.718	2	34.718	2	16.461	16.437	25.430	0.039	0.0	2	28.5	2	2.22	2	17.3	2	0.820	2	0.438	2	5.41	2	1285	2	2212.5	3	7.5279	2	2283	2	-9	-9	-9	0.019	0.065
329	2	197.6	34.820	2	34.822	2	13.335	13.307	26.191	0.055	1.0	2	28.3	2	2.38	2	24.0	2	0.395	2	0.222	2	0.31	2	1468	2	2243.2	2	7.4756	2	2296	2	-9	44.1	4.2	0.015	0.249
328	2	248.8	34.793	2	34.791	2	12.223	12.190	26.391	0.051	0.2	2	31.2	2	2.41	2	26.6	2	0.237	2	0.133	2	0.19	2	1547	2	2251.6	2	7.4494	2	2300	2	-9	41.1	-9	0.003	0.093
327	2	302.3	34.735	2	34.738	2	11.367	11.329	26.509	0.044	0.2	2	30.9	2	2.53	2	30.4	2	0.124	2	0.072	2	0.18	2	1643	2	2263.6	2	7.4285	2	2304	2	-9	44.1	-9	0.002	0.080
326	2	330.2	34.728	2	34.739	2	11.115	11.074	26.551	0.043	0.5	2	30.2	2	2.54	2	32.2	2	0.106	2	0.061	2	1.84	2	-9	9	2265.3	2	7.4229	2	2302	2	-9	-9	-9	-9	-9
325	2	398.9	34.683	2	34.684	2	10.196	10.148	26.679	0.043	0.8	2	27.4	2	2.69	2	38.1	2	0.039	2	0.022	2	1.48	2	1785	2	2283.7	2	7.3949	2	2307	2	-9	57.5	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	499.3	34.616	2	34.616	2	8.765	8.711	26.864	0.042	0.4	2	29.5	2	2.92	2	49.8	2	0.007	2	0.006	2	1.62	2	1904	2	2302.5	2	7.3680	2	2327	2	-9	-9	-9	-9	-9
322	2	599.1	34.574	2	34.573	2	7.489	7.429	27.023	0.039	0.4	2	33.4	2	3.08	2	61.9	2	-9	9	-9	9	0.24	2	1995	2	2318.0	2	7.3519	2	2336	2	-9	-9	-9	-9	-9
321	2	700.7	34.552	2	34.551	2	6.571	6.506	27.133	0.035	0.0	2	39.1	2	3.15	2	70.5	2	0.002	2	0.000	2	0.93	2	2060	2	2326.5	2	7.3400	2	2330	2	-9	-9	-9	-9	-9
320	2	799.0	34.548	2	34.548	2	5.849	5.778	27.224	0.037	0.0	2	42.7	2	3.22	2	78.2	2	-9	9	-9	9	1.69	2	2110	2	2337.6	2	7.3306	2	2335	2	-9	-9	-9	-9	-9
319	2	902.2	34.545	2	34.545	2	5.212	5.136	27.299	0.036	0.0	2	44.1	2	3.30	2	89.4	2	-0.002	2	-0.002	2	5.00	2	2115	2	2347.0	2	-9	9	2346	2	-9	-9	-9	-9	-9
318	2	1001.2	34.550	2	34.550	2	4.776	4.694	27.354	0.032	0.0	2	44.4	2	3.30	2	96.6	2	-9	9	-9	9	8.75	2	2120	2	2354.5	2	7.3317	2	2361	6	-9	34.8	2.4	-9	-9
317	2	1197.9	34.571	2	34.569	2	3.940	3.848	27.461	0.030	0.0	2	43.9	2	3.25	2	110.7	2	-9	9	-9	9	26.27	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
316	2	1399.8	34.590	2	34.592	2	3.327	3.224	27.537	0.027	0.0	2	43.0	2	3.13	2	123.3	2	0.000	2	0.003	2	42.54	2	-9	9	-9	9	7.3899	2	-9	9	-9	-9	-9	-9	-9
315	2	1599.6	34.608	2	34.607	2	2.944	2.828	27.587	0.024	0.0	2	41.9	2	3.02	2	129.9	2	-9	9	-9	9	57.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1801.6	34.625	2	34.624	2	2.559	2.432	27.636	0.021	0.0	2	40.8	2	2.92	2	136.5	2	-9	9	-9	9	72.67	2	-9	9	-9	9	7.4475	2	-9	9	-9	-9	-9	-9	-9
313	2	1997.8	34.640	2	34.640	2	2.263	2.123	27.674	0.019	0.0	2	39.6	2	2.84	2	142.4	2	0.001	2	0.001	2	85.96	2	-9	9	-9	9	-9	9	-9	9	-9	40.7	-9	-9	-9
312	2	2199.3	34.651	2	34.650	2	2.074	1.920	27.698	0.017	0.0	2	39.5	2	2.77	2	145.8	2	-9	9	-9	9	94.93	2	-9	9	-9	9	7.4909	2	-9	9	-9	-9	-9	-9	-9
311	2	2399.9	34.658	2	34.657	2	1.958	1.788	27.715	0.016	0.0	2	38.8	2	2.73	2	148.7	2	-9	9	-9	9	102.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	2600.4	34.664	2	34.663	2	1.866	1.679	27.727	0.014	0.0	2	38.6	2	2.72	2	153.7	2	0.001	2	0.000	2	108.11	2	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
309	2	2800.2	34.668	2	34.668	2	1.790	1.586	27.737	0.012	0.0	2	38.4	2	2.68	2	156.8	2	-9	9	-9	9	113.58	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	3000.5	34.671	2	34.672	2	1.737	1.515	27.745	0.011	0.0	2	37.9	2	2.64	2	156.1	2	-9	9	-9	9	118.11	2	-9	9	-9	9	7.5331	2	-9	9	-9	40.7	-9	-9	-9
307	2	3198.8	34.675	2	34.675	2	1.669	1.429	27.755	0.010	0.0	2	37.2	2	2.61	2	155.4	2	-0.001	2	0.006	2	124.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	3400.8	34.679	2	34.679	2	1.592	1.334	27.765	0.010	0.0	2	36.8	2	2.57	2	152.1	2	-9	9	-9	9	131.85	2	-9	9	-9	9	7.5542	2	-9	9	-9	-9	-9	-9	-9
305	2	3597.7	34.681	2	34.681	2	1.566	1.288	27.770	0.010	0.0	2	36.6	2	2.54	2	150.7	2	-9	9	-9	9	135.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3796.8	34.682	2	34.681	2	1.569	1.270	27.771	0.010	0.0	2	36.6	2	2.53	2	150.0	2	-9	9	-9	9	134.62	2	-9	9	-9	9	7.5610	2	-9	9	-9	-9	-9	-9	-9
303	2	4002.9	34.682	2	34.683	2	1.586	1.265	27.772	0.010	0.0	2	36.4	2	2.52	2	149.3	2	0.002	2	0.001	2	137.35	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	4001.0	34.683	2	34.682	2	1.586	1.264	27.772	0.010	0.0	2	37.2	2	2.54	2	148.6	2	-9	9	-9	9	137.67	2	-9	9	-9	9	7.5614	2	-9	9	-9	-9	-9	-9	-9
301	2	4227.2	34.682	2	34.681	2	1.609	1.262	27.772	0.010	0.0	2	36.9	2	2.55	2	151.5	2	-9	9	-9	9	137.53	2	-9	9	-9	9	-9	9	-9	9	-9	41.1	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 173 DATE 4/21/94 LATITUDE 13°20.0'N Btm Depth: 4090
CAST 1 LONGITUDE 109°59.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.5	33.790	2	33.791	2	28.877	28.875	21.197	0.066	0.0	2	0.1	2	0.12	2	0.0	2	1.677	2	0.938	2	205.37	2	257	2	1899.4	2	8.1232	2	2219	3	1.60	-9	-9	-9	-9
135	2	25.3	33.792	2	33.795	2	28.757	28.750	21.240	0.078	0.0	2	0.0	2	0.14	2	0.0	2	1.685	2	0.941	2	198.77	6	-9	9	-9	9	8.1215	2	-9	9	-9	-9	-9	-9	-9
134	2	49.8	33.827	2	33.837	2	28.668	28.656	21.298	0.082	0.0	2	0.0	2	0.16	2	0.0	2	1.686	2	0.929	2	199.09	2	260	2	1901.9	2	8.1201	2	2229	2	-9	-9	-9	-9	-9
133	2	74.0	34.077	2	34.080	2	28.389	28.371	21.579	0.076	0.0	2	0.0	2	0.15	2	0.1	2	1.717	2	0.951	2	200.28	2	-9	9	-9	9	8.1148	2	-9	9	-9	-9	-9	-9	-9
132	3	98.5	34.107	2	34.112	2	25.598	25.576	22.491	0.084	0.6	2	2.9	2	0.46	2	1.5	2	1.667	2	0.918	2	167.16	2	337	2	1977.6	2	-9	9	2246	2	-9	-9	-9	-9	-9
131	2	124.5	34.670	2	34.714	3	17.335	17.314	25.186	0.045	0.0	2	28.5	2	2.24	2	17.1	2	0.822	2	0.442	2	6.63	2	-9	9	-9	9	7.5293	2	-9	9	-9	-9	-9	-9	-9
130	2	149.0	34.775	2	34.777	2	14.450	14.428	25.923	0.036	0.0	2	30.5	2	2.35	2	21.4	2	0.544	2	0.294	2	1.27	2	1388	2	2233.8	2	7.4892	2	2294	2	-9	-9	-9	-9	-9
129	2	174.7	34.761	2	34.763	2	13.385	13.360	26.135	0.058	0.1	2	29.2	2	2.42	2	23.9	2	0.416	2	0.230	2	0.66	2	-9	9	-9	9	7.4696	2	-9	9	-9	-9	-9	-9	-9
128	2	199.2	34.774	2	34.773	2	12.603	12.576	26.302	0.054	0.0	2	31.8	2	2.42	2	25.5	2	0.299	2	0.163	2	0.65	2	1482	2	2243.4	2	7.4573	2	2294	2	-9	-9	-9	-9	-9
127	2	250.6	34.767	2	34.767	2	11.810	11.778	26.450	0.035	0.0	2	33.4	2	2.41	2	27.2	2	0.211	2	0.119	2	2.78	2	1540	2	2249.1	2	7.4527	2	2293	2	-9	-9	-9	-9	-9
126	2	300.0	34.748	2	34.748	2	11.292	11.254	26.533	0.034	0.0	2	33.4	2	2.46	2	29.0	2	-9	9	-9	9	3.01	2	1599	2	2257.8	2	7.4369	2	2298	2	-9	-9	-9	-9	-9
125	2	347.6	34.718	2	34.717	2	10.763	10.721	26.606	0.032	0.0	2	33.2	2	2.51	2	31.3	2	0.090	2	0.049	2	1.57	2	-9	9	2264.9	2	7.4196	2	2297	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.6	34.686	2	34.687	2	10.106	10.059	26.697	0.042	0.3	2	30.9	2	2.66	2	35.9	2	-9	9	-9	9	0.43	2	1783	2	2278.3	2	7.3957	2	2307	2	-9	-9	-9	-9	-9
122	2	498.1	34.595	2	34.595	2	8.758	8.704	26.848	0.041	0.0	2	35.3	2	2.79	2	43.7	2	0.018	2	0.004	2	4.69	2	1850	2	2286.9	2	7.3805	2	2308	2	-9	-9	-9	-9	-9
121	2	596.7	34.551	2	34.555	2	7.716	7.656	26.972	0.039	0.0	2	36.8	2	2.96	2	53.9	2	-9	9	-9	9	4.74	2	1938	2	2302.5	2	7.3626	2	2312	2	-9	-9	-9	-9	-9
120	2	699.5	34.551	2	34.551	2	6.812	6.745	27.100	0.035	0.0	2	39.1	2	3.10	2	64.8	2	0.000	2	-0.002	2	1.88	2	2018	2	2320.7	2	7.3465	2	2327	2	-9	-9	-9	-9	-9
119	2	798.3	34.540	2	34.540	2	6.006	5.934	27.197	0.035	0.0	2	42.5	2	3.20	2	74.6	2	-9	9	-9	9	2.72	2	2081	2	2334.4	2	7.3364	2	2335	2	-9	-9	-9	-9	-9
118	2	898.6	34.539	2	34.539	2	5.432	5.355	27.268	0.034	0.0	2	43.7	2	3.20	2	85.6	2	-9	9	-9	9	4.60	2	2122	2	2343.0	2	7.3311	2	2351	2	-9	-9	-9	-9	-9
117	2	999.6	34.541	2	34.541	2	4.930	4.847	27.329	0.031	0.0	2	44.6	2	3.21	2	92.8	2	0.002	2	0.003	2	11.41	2	2084	2	2346.9	2	7.3390	2	2353	6	-9	-9	-9	-9	-9
116	2	1100.9	34.551	2	34.550	2	4.489	4.401	27.386	0.031	0.0	2	44.6	2	3.21	2	100.4	2	-9	9	-9	9	18.90	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1201.5	34.562	2	34.563	2	4.116	4.022	27.436	0.030	0.0	2	44.5	2	3.21	2	108.0	2	-9	9	-9	9	25.12	2	-9	9	-9	9	7.3597	2	-9	9	-9	-9	-9	-9	-9
114	2	1300.6	34.574	2	34.573	2	3.781	3.681	27.480	0.029	0.0	2	44.4	2	3.19	2	116.7	2	-9	9	-9	9	29.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1401.9	34.587	2	34.587	2	3.406	3.302	27.528	0.027	0.0	2	43.6	2	3.10	2	123.0	2	-9	9	-9	9	41.08	2	-9	9	-9	9	7.3862	2	-9	9	-9	-9	-9	-9	-9
112	2	1599.7	34.607	2	34.607	2	2.944	2.828	27.587	0.024	0.0	2	42.4	2	3.00	2	133.1	2	-9	9	-9	9	56.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1799.6	34.624	2	34.623	2	2.575	2.448	27.634	0.021	0.0	2	41.4	2	2.90	2	142.0	2	-9	9	-9	9	72.05	2	-9	9	-9	9	7.4471	2	-9	9	-9	-9	-9	-9	-9
110	2	2000.5	34.638	2	34.637	2	2.285	2.144	27.670	0.017	0.0	2	40.7	2	2.82	2	150.7	2	-9	9	-9	9	83.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2249.2	34.650	2	34.650	2	2.063	1.904	27.699	0.017	0.0	2	39.8	2	2.75	2	153.9	2	-9	9	-9	9	94.94	2	-9	9	-9	9	7.4906	2	-9	9	-9	-9	-9	-9	-9
108	2	2499.5	34.661	2	34.660	2	1.884	1.706	27.722	0.014	0.0	2	38.9	2	2.69	2	157.8	2	-9	9	-9	9	105.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2748.1	34.667	2	34.667	2	1.787	1.588	27.737	0.013	0.0	2	38.4	2	2.63	2	157.7	2	-9	9	-9	9	112.67	2	-9	9	-9	9	7.5236	2	-9	9	-9	-9	-9	-9	-9
106	2	2998.2	34.672	2	34.670	2	1.731	1.509	27.746	0.011	0.0	6	37.9	6	2.60	6	156.5	6	-9	9	-9	9	118.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3249.0	34.676	2	34.676	2	1.667	1.422	27.756	0.012	0.0	2	37.6	2	2.57	2	156.9	2	-9	9	-9	9	125.30	6	-9	9	-9	9	7.5465	2	-9	9	-9	-9	-9	-9	-9
104	2	3500.3	34.678	2	34.677	2	1.631	1.361	27.762	0.010	0.0	2	37.7	2	2.55	2	157.1	2	-9	9	-9	9	129.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3750.7	34.680	2	34.681	2	1.617	1.322	27.766	0.010	0.0	2	37.4	2	2.54	2	156.1	2	-9	9	-9	9	132.63	6	-9	9	-9	9	7.5562	2	-9	9	-9	-9	-9	-9	-9
102	2	3750.9	34.680	2	34.680	2	1.617	1.322	27.766	0.010	0.0	2	37.3	2	2.53	2	157.5	2	-9	9	-9	9	131.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	4144.9	34.680	2	34.680	2	1.646	1.307	27.767	0.010	0.0	2	37.1	2	2.53	2	157.2	2	-9	9	-9	9	133.83	2	-9	9	-9	9	7.5567	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 174 DATE 4/21/94 LATITUDE 14°0.1'N Btm Depth: 3275
CAST 1 LONGITUDE 109°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	33.891	2	33.893	2	28.503	28.501	21.397	0.065	0.0	2	0.1	2	0.12	2	0.2	2	1.693	2	0.970	2	198.60	2	263	2	1898.8	2	8.1200	2	2229	2	1.60	-9	-9	-9	-9
135	2	9.4	33.891	2	33.894	2	28.502	28.500	21.398	0.065	0.0	2	0.0	2	0.14	2	0.1	2	1.701	2	0.951	2	198.87	2	266	2	1899.3	2	8.1173	2	2229	2	-9	81.8	5.6	-9	-9
134	2	25.2	33.903	2	33.905	2	28.409	28.403	21.438	0.079	0.0	2	0.0	2	0.13	2	0.2	2	1.711	2	0.992	2	199.02	2	258	2	1899.3	2	8.1192	2	2231	2	1.60	84.2	6.7	-9	-9
133	2	49.3	33.881	2	33.886	2	28.158	28.147	21.506	0.075	0.0	2	0.0	2	0.13	2	0.1	2	1.727	2	0.964	2	200.45	2	259	2	1897.4	2	8.1224	2	2231	2	1.60	80.2	5.7	-9	-9
132	2	73.8	33.950	2	33.939	2	27.191	27.174	21.872	0.084	0.0	2	0.0	2	0.11	2	0.6	2	1.785	2	1.004	2	205.34	2	259	2	1905.6	2	8.1147	2	2237	2	1.60	84.2	5.2	-9	-9
131	2	98.7	34.405	2	34.388	2	22.052	22.032	23.757	0.071	0.9	2	9.7	2	1.04	2	4.9	2	1.566	6	0.843	6	112.26	2	535	2	2074.0	2	7.8527	2	2276	2	0.80	-9	6.0	-9	-9
130	2	124.3	34.740	2	34.731	2	16.096	16.076	25.531	0.043	0.0	2	29.2	2	2.22	2	17.5	2	0.785	2	0.419	2	4.45	2	1275	2	2212.2	2	7.5240	2	2286	2	-9	64.3	-9	-9	-9
129	2	148.4	34.786	2	34.776	2	14.038	14.017	26.018	0.039	0.0	2	30.3	2	2.37	2	23.0	2	0.467	2	0.254	2	1.02	2	1422	2	2233.7	2	7.4794	2	2291	2	-0.20	52.5	-9	-9	-9
128	2	173.3	34.765	2	34.769	2	12.845	12.822	26.247	0.053	0.7	2	29.3	2	2.45	2	25.8	2	0.333	2	0.184	2	0.61	2	1508	2	2243.0	2	7.4579	2	2292	2	-9	-9	-9	-9	-9
127	2	200.2	34.759	2	34.759	2	12.319	12.292	26.346	0.045	0.5	2	30.9	2	2.44	2	27.0	2	0.257	2	0.155	2	0.84	2	1525	2	2246.1	2	7.4521	2	2296	2	-0.10	53.9	-9	-9	-9
126	2	250.5	34.722	2	34.716	2	11.531	11.499	26.467	0.036	0.0	2	31.7	2	2.48	2	29.7	2	0.157	2	0.090	2	2.34	2	1609	2	2253.1	2	7.4369	2	-9	5	-9	-9	-9	-9	-9
125	2	301.0	34.687	2	34.688	2	10.687	10.651	26.595	0.036	0.0	2	31.8	2	2.55	2	32.6	2	0.094	6	0.060	6	2.97	2	1680	2	2262.9	2	7.4186	2	-9	5	-0.20	52.8	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	348.3	34.663	2	34.660	2	10.197	10.156	26.662	0.036	0.0	2	31.1	2	2.64	2	35.9	2	0.041	2	0.024	2	1.30	6	1790	2	2274.2	2	7.3929	2	2302	2	-9	-9	-9	-9	-9
122	2	399.7	34.633	2	34.630	2	9.597	9.551	26.741	0.039	0.0	2	32.3	2	2.74	2	39.8	2	0.021	6	0.012	6	0.87	2	1842	2	2280.4	2	7.3817	2	2306	2	-0.20	-9	-9	-9	-9
121	2	500.3	34.577	2	34.576	2	8.435	8.382	26.884	0.041	0.0	2	35.5	2	2.83	2	47.4	2	0.009	2	0.005	2	5.16	6	1875	2	2287.7	2	-9	9	2308	2	-0.20	44.9	-9	-9	-9
120	2	600.7	34.546	2	34.545	2	7.463	7.403	27.004	0.037	0.0	2	37.3	2	2.97	2	57.2	2	0.001	2	0.002	2	5.78	2	1933	2	2308.9	2	7.3624	2	2319	2	-0.20	-9	-9	-9	-9
119	2	700.7	34.528	2	34.528	2	6.654	6.588	27.103	0.035	0.0	2	39.6	2	3.06	2	66.0	2	0.002	2	-0.001	2	6.26	2	2003	2	2318.5	2	7.3513	2	2326	2	-0.20	-9	-9	-9	-9
118	2	800.3	34.539	2	-9	5	5.942	5.870	27.205	0.032	0.0	2	43.2	2	3.31	2	79.4	2	0.000	2	0.000	2	1.93	2	2105	2	2333.3	2	-9	9	2346	2	-0.30	-9	-9	-9	-9
117	2	898.3	34.540	2	34.541	2	5.381	5.304	27.275	0.034	0.0	2	43.6	2	3.24	2	86.0	2	-0.004	2	0.000	2	3.45	2	2137	2	2346.0	2	7.3281	2	2340	2	-0.30	-9	-9	-9	-9
116	2	1000.3	34.544	2	34.545	2	4.818	4.736	27.344	0.032	0.0	2	44.5	2	3.27	2	95.8	2	-9	9	-9	9	9.57	2	2114	2	2352.9	2	7.3379	2	2353	2	-0.30	39.3	-9	-9	-9
115	2	1100.7	34.553	2	34.554	2	4.430	4.342	27.395	0.031	0.0	2	44.7	2	3.27	2	103.2	2	-0.003	2	-0.002	2	14.94	2	2092	2	2360.1	2	7.3410	2	2358	2	-9	-9	-9	-9	-9
114	2	1200.7	34.563	2	34.565	2	4.062	3.968	27.442	0.029	0.0	2	44.5	2	3.24	2	111.0	2	-9	9	-9	9	22.16	2	2030	2	2363.1	2	7.3536	2	2371	2	-0.30	-9	-9	-9	-9
113	2	1300.6	34.573	2	34.572	2	3.800	3.701	27.477	0.027	0.1	2	44.2	2	3.18	2	115.4	2	0.007	2	0.004	2	29.35	2	1982	2	2363.4	2	7.3651	2	2375	2	-9	-9	-9	-9	-9
112	2	1399.7	34.584	2	34.584	2	3.517	3.412	27.514	0.026	0.0	2	43.6	2	3.12	2	123.8	2	-9	9	-9	9	37.60	2	1914	2	2365.6	2	7.3802	2	2379	2	-0.30	-9	-9	-9	-9
111	2	1599.2	34.609	2	34.608	2	2.925	2.810	27.590	0.023	0.0	2	42.0	2	2.99	2	136.8	2	-0.005	2	-0.002	2	58.02	2	1748	2	2367.3	2	7.4201	2	2398	2	-0.20	-9	-9	-9	-9
110	2	1802.2	34.624	2	34.624	2	2.543	2.415	27.637	0.020	0.0	2	41.2	2	2.89	2	145.7	2	-9	9	-9	9	71.57	6	1653	2	2368.6	2	7.4467	2	2401	3	-0.30	-9	-9	-9	-9
109	2	1999.4	34.639	2	34.640	2	2.256	2.116	27.673	0.017	0.0	2	40.5	2	2.81	2	149.3	2	-0.003	2	0.001	2	84.84	2	1560	2	2367.0	2	7.4707	2	2417	2	-0.20	-9	-9	-9	-9
108	2	2197.2	34.650	2	34.649	2	2.079	1.924	27.697	0.017	0.0	2	39.6	2	2.75	2	152.2	2	-9	9	-9	9	94.27	2	1495	2	2364.2	2	7.4895	2	2417	2	-9	-9	-9	-9	-9
107	2	2399.3	34.658	2	34.658	2	1.959	1.789	27.714	0.017	0.0	2	39.0	2	2.70	2	154.3	2	-0.004	2	0.000	2	101.89	2	1436	2	2361.7	2	7.5056	2	2426	2	-0.20	-9	-9	-9	-9
106	2	2600.1	34.664	2	34.665	2	1.848	1.661	27.729	0.013	0.0	2	38.5	2	2.64	2	157.3	2	-9	9	-9	9	108.52	2	1392	2	2360.5	2	7.5177	2	2433	2	-9	-9	-9	-9	-9
105	2	2799.4	34.668	2	34.669	2	1.789	1.585	27.738	0.012	0.0	2	38.1	2	2.63	2	156.4	2	-0.003	2	0.000	2	113.82	2	1365	2	2358.4	2	-9	1	2429	2	-9	-9	-9	-9	-9
104	2	3001.8	34.671	2	34.674	2	1.727	1.505	27.746	0.011	0.0	6	38.0	6	2.60	6	156.4	6	-9	9	-9	9	118.31	2	1340	2	2357.5	2	7.5335	2	2428	2	-0.10	-9	-9	-9	-9
103	2	3199.8	34.675	2	34.676	2	1.671	1.431	27.754	0.010	0.0	2	37.8	2	2.56	2	155.6	2	-0.002	2	0.003	2	123.37	2	1302	2	2352.4	2	7.5429	2	2431	2	-9	-9	-9	-9	-9
102	2	3200.3	34.675	2	34.676	2	1.671	1.431	27.754	0.010	0.0	2	38.2	2	2.57	2	155.5	2	-0.002	2	0.000	2	123.68	2	1304	2	2351.8	2	7.5416	2	2432	2	-9	-9	-9	-9	-9
101	2	3316.3	34.675	2	34.675	2	1.671	1.420	27.755	0.010	0.0	2	38.3	2	2.57	2	154.9	2	-0.002	2	0.002	2	124.29	2	1303	2	2350.8	2	7.5439	2	2426	2	-0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 175 DATE 4/21/94 LATITUDE 14°29.9'N Btm Depth: 3677
CAST 1 LONGITUDE 109°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.0	33.873	2	33.881	2	28.297	28.295	21.451	0.061	0.0	2	0.1	2	0.17	2	0.0	2	-9	9	-9	9	199.63	2	259	2	1902.0	3	8.1210	2	2241	2	-9	-9	-9	0.103	0.033
135	2	24.8	34.050	2	34.050	2	26.996	26.991	22.006	0.068	0.0	2	0.0	2	0.13	2	0.0	2	-9	9	-9	9	205.40	2	-9	9	-9	9	8.1162	2	-9	9	-9	-9	-9	0.097	0.035
134	2	48.7	34.067	2	34.069	2	26.361	26.350	22.220	0.068	0.0	2	0.0	2	0.13	2	0.0	2	-9	9	-9	9	208.37	2	270	2	1916.3	3	8.1157	2	2241	2	-9	-9	-9	0.122	0.049
133	2	73.1	34.286	2	34.283	2	25.599	25.583	22.624	0.067	0.0	2	0.0	2	0.17	2	0.0	2	-9	9	-9	9	210.79	2	-9	9	-9	9	8.0932	2	-9	9	-9	-9	-9	0.231	0.101
132	2	98.6	34.228	2	34.243	2	20.926	20.907	23.932	0.072	0.5	2	4.9	2	0.78	2	2.0	2	-9	9	-9	9	156.90	2	515	3	2061.2	3	7.8922	2	2268	2	-9	-9	-9	0.305	0.321
131	2	124.3	34.657	2	34.640	2	16.242	16.223	25.433	0.054	0.0	2	26.4	2	2.21	2	14.8	2	-9	9	-9	9	8.54	6	-9	9	-9	9	7.5364	2	-9	9	-9	-9	-9	0.069	0.175
130	2	148.4	34.731	2	34.738	2	14.055	14.034	25.972	0.068	0.2	2	27.4	2	2.44	2	21.6	2	-9	9	-9	9	0.34	2	1493	2	2238.5	3	7.4742	2	2286	2	-9	-9	-9	0.066	0.404
129	2	175.6	34.754	2	34.756	2	12.759	12.735	26.255	0.053	2.1	2	26.5	2	2.50	2	24.5	2	-9	9	-9	9	2.80	2	-9	9	-9	9	7.4552	2	-9	9	-9	-9	-9	0.014	0.289
128	2	199.5	34.753	2	34.753	2	12.091	12.065	26.385	0.051	1.6	2	28.9	2	2.51	2	26.7	2	-9	9	-9	9	0.97	2	1614	2	2253.5	3	7.4438	2	2289	2	-9	-9	-9	0.006	0.207
127	2	250.9	34.732	2	34.731	2	11.353	11.321	26.508	0.046	0.2	2	30.7	2	2.55	2	29.8	2	-9	9	-9	9	0.17	2	1618	3	2262.4	3	7.4296	2	2295	2	-9	-9	-9	0.004	0.135
126	2	300.0	34.708	2	34.706	2	10.912	10.875	26.571	0.043	0.5	2	29.9	2	2.61	2	32.2	2	-9	9	-9	9	0.95	2	1712	2	2267.4	3	7.4145	2	2296	2	-9	-9	-9	-9	-9
125	2	349.5	34.677	2	34.676	2	10.314	10.273	26.653	0.043	0.6	2	29.6	2	2.67	2	34.8	2	-9	9	-9	9	0.55	2	-9	9	-9	9	7.3979	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.4	34.637	2	34.637	2	9.628	9.582	26.739	0.040	0.0	2	31.6	2	2.76	2	38.4	2	-9	9	-9	9	0.93	6	1842	2	2283.7	3	7.3819	2	2302	2	-9	-9	-9	-9	-9
122	2	499.2	34.572	2	34.571	2	8.255	8.203	26.907	0.040	0.0	2	34.8	2	2.94	2	49.4	2	-9	9	-9	9	2.05	2	1930	2	2299.6	3	7.3655	2	2308	2	-9	-9	-9	-9	-9
121	2	601.0	34.540	2	34.540	2	7.388	7.329	27.010	0.039	0.0	2	37.0	2	3.02	2	57.0	2	-9	9	-9	9	3.61	2	1967	2	2309.9	3	7.3581	2	2313	2	-9	-9	-9	-9	-9
120	2	701.6	34.541	2	34.541	2	6.641	6.575	27.115	0.034	0.0	2	39.2	2	3.16	2	66.5	2	-9	9	-9	9	1.47	2	2046	2	2326.2	3	7.3434	2	2326	2	-9	-9	-9	-9	-9
119	2	798.9	34.536	2	34.536	2	5.957	5.885	27.201	0.032	0.0	2	41.4	2	3.25	2	77.1	2	-9	9	-9	9	1.57	2	2096	2	2338.1	3	7.3324	2	2335	2	-9	-9	-9	-9	-9
118	2	900.0	34.535	2	34.536	2	5.309	5.232	27.280	0.035	0.1	2	42.7	2	3.29	2	86.3	2	-9	9	-9	9	3.44	2	2112	2	2348.0	3	7.3270	2	2346	2	-9	-9	-9	-9	-9
117	2	1001.9	34.544	2	34.543	2	4.784	4.702	27.347	0.035	0.0	2	43.9	2	3.28	2	92.7	2	-9	9	-9	9	9.49	2	2094	2	2355.6	3	7.3338	2	2355	6	-9	-9	-9	-9	-9
116	2	1100.2	34.554	2	34.554	2	4.374	4.287	27.401	0.031	0.0	2	44.3	2	3.31	2	102.0	2	-9	9	-9	9	16.69	2	-9	9	-9	9	7.3417	2	-9	9	-9	-9	-9	-9	-9
115	2	1179.4	34.560	2	34.560	2	4.091	3.999	27.436	0.031	0.0	2	43.9	2	3.27	2	109.9	2	-9	9	-9	9	21.43	2	-9	9	-9	9	7.3511	2	-9	9	-9	-9	-9	-9	-9
114	2	1299.8	34.573	2	34.573	2	3.730	3.631	27.484	0.029	0.0	2	43.6	2	3.23	2	119.2	2	-9	9	-9	9	29.83	2	-9	9	-9	9	7.3676	2	-9	9	-9	-9	-9	-9	-9
113	2	1399.7	34.585	2	34.585	2	3.437	3.333	27.523	0.027	0.0	2	42.8	2	3.16	2	123.7	2	-9	9	-9	9	38.42	2	-9	9	-9	9	7.3801	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.3	34.601	2	34.601	2	3.063	2.946	27.571	0.024	0.0	2	41.8	2	3.07	2	129.6	2	-9	9	-9	9	51.04	2	-9	9	-9	9	7.4069	2	-9	9	-9	-9	-9	-9	-9
111	2	1799.6	34.621	2	34.621	2	2.633	2.504	27.627	0.022	0.0	2	40.8	2	2.95	2	137.2	2	-9	9	-9	9	68.89	2	-9	9	-9	9	7.4400	2	-9	9	-9	-9	-9	-9	-9
110	2	1999.4	34.636	2	34.634	2	2.323	2.182	27.665	0.019	0.0	2	40.1	2	2.84	2	142.6	2	-9	9	-9	9	81.64	2	-9	9	-9	9	7.4658	2	-9	9	-9	-9	-9	-9	-9
109	2	2196.7	34.648	2	34.647	2	2.100	1.945	27.694	0.017	0.0	2	39.3	2	2.79	2	146.5	2	-9	9	-9	9	92.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2399.2	34.657	2	34.657	2	1.930	1.760	27.716	0.014	0.0	2	38.5	2	2.75	2	151.1	2	-9	9	-9	9	101.32	2	-9	9	-9	9	7.5028	2	-9	9	-9	-9	-9	-9	-9
107	2	2599.6	34.666	2	34.666	2	1.771	1.586	27.736	0.012	0.0	2	37.9	2	2.69	2	152.9	2	-9	9	-9	9	112.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2799.2	34.670	2	34.671	2	1.710	1.507	27.745	0.011	0.0	2	37.6	2	2.65	2	157.6	2	-9	9	-9	9	117.08	6	-9	9	-9	9	7.5313	2	-9	9	-9	-9	-9	-9	-9
105	2	3002.9	34.673	2	34.673	2	1.676	1.455	27.751	0.011	0.0	6	37.3	6	2.61	6	155.4	6	-9	9	-9	9	122.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3199.8	34.675	2	34.674	2	1.662	1.422	27.755	0.010	0.0	2	37.0	2	2.62	2	157.3	2	-9	9	-9	9	124.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3399.2	34.677	2	34.678	2	1.641	1.381	27.760	0.010	0.0	2	36.7	2	2.58	2	159.3	2	-9	9	-9	9	127.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3399.4	34.677	2	34.677	2	1.641	1.382	27.760	0.010	0.0	2	36.8	2	2.59	2	156.5	2	-9	9	-9	9	127.70	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3524.9	34.678	2	34.677	2	1.640	1.368	27.761	0.010	0.0	2	36.5	2	2.59	2	154.8	2	-9	9	-9	9	129.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 176 DATE 4/21/94 LATITUDE 15°0.0'N Btm Depth: 3777
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.7	33.883	2	33.885	2	28.018	28.016	21.550	0.068	0.0	2	0.0	2	0.12	2	0.0	2	1.754	2	0.974	2	201.41	2	256	2	1901.0	2	8.1230	2	2238	2	1.60	-9	5.6	-9	-9
135	2	24.5	33.921	2	33.923	2	27.578	27.573	21.722	0.082	0.0	2	0.0	2	0.12	2	0.0	2	1.765	6	0.975	6	203.14	6	-9	9	-9	9	8.1215	2	-9	9	-9	-9	5.3	-9	-9
134	2	49.5	34.087	2	34.083	2	26.947	26.936	22.051	0.082	0.0	2	0.0	2	0.09	2	0.0	2	1.825	2	1.008	2	210.32	2	-9	9	-9	9	8.1218	2	-9	9	-9	87.9	5.5	-9	-9
133	2	73.1	34.251	2	34.256	2	25.589	25.573	22.600	0.077	0.0	2	0.0	2	0.12	2	0.0	2	1.909	2	1.041	2	208.90	2	-9	9	-9	9	8.0956	2	-9	9	-9	-9	5.4	-9	-9
132	3	98.9	34.279	2	34.284	2	20.492	20.474	24.087	0.079	0.4	2	5.2	2	0.77	2	3.1	2	2.033	2	1.060	2	151.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	4.7	-9	-9
131	2	124.7	34.419	2	34.389	3	15.714	15.695	25.370	0.047	0.0	2	20.0	2	1.79	2	13.4	2	1.644	2	0.839	2	60.91	2	-9	9	-9	9	7.6168	2	-9	9	-9	89.6	-9	-9	-9
130	2	148.5	34.687	2	34.688	2	14.009	13.988	25.947	0.039	0.0	2	26.9	2	2.42	2	22.7	2	0.666	2	0.416	2	1.73	2	-9	9	-9	9	7.4716	2	-9	9	-9	46.3	3.9	-9	-9
129	2	172.9	34.768	2	34.769	2	12.820	12.796	26.254	0.050	2.4	2	25.3	2	2.47	2	25.5	2	0.321	6	0.187	6	1.65	2	-9	9	-9	9	7.4596	2	-9	9	-9	-9	-9	-9	-9
128	2	198.2	34.781	2	34.780	2	12.510	12.484	26.326	0.053	2.7	2	25.8	2	2.45	2	26.0	2	0.247	2	0.140	2	0.64	2	-9	9	-9	9	7.4549	2	-9	9	-9	-9	-9	-9	-9
127	2	198.8	34.781	2	34.780	2	12.512	12.485	26.325	0.053	2.7	2	26.1	2	2.46	2	25.7	2	0.244	2	0.143	2	0.60	2	-9	9	-9	9	7.4545	2	-9	9	-9	-9	-9	-9	-9
126	2	250.2	34.738	2	34.738	2	11.574	11.542	26.472	0.052	1.7	2	27.1	2	2.53	2	28.8	2	0.127	2	0.074	2	1.20	2	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
125	2	299.0	34.714	2	34.714	2	10.988	10.951	26.562	0.049	2.5	2	25.7	2	2.57	2	31.3	2	0.072	2	0.042	2	1.23	2	-9	9	-9	9	7.4132	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.8	34.633	2	34.633	2	9.639	9.593	26.734	0.042	0.5	2	29.4	2	2.77	2	40.1	2	0.017	6	0.017	6	0.98	2	-9	9	-9	9	7.3786	2	-9	9	-9	38.6	-9	-9	-9
122	2	498.7	34.569	2	34.569	2	8.202	8.150	26.913	0.039	0.0	2	33.7	2	2.95	2	53.0	2	0.003	2	0.012	2	1.48	2	-9	9	-9	9	7.3614	2	-9	9	-9	-9	2.7	-9	-9
121	2	599.1	34.549	2	34.547	2	7.263	7.205	27.035	0.034	0.0	2	36.6	2	3.06	2	63.3	2	0.001	2	0.006	2	1.36	2	-9	9	-9	9	7.3513	2	-9	9	-9	-9	-9	-9	-9
120	2	699.9	34.533	2	34.533	2	6.314	6.250	27.151	0.033	0.0	2	39.6	2	3.17	2	73.8	2	0.001	2	0.006	2	1.44	2	-9	9	-9	9	7.3386	2	-9	9	-9	-9	-9	-9	-9
119	2	799.5	34.533	2	34.532	2	5.668	5.599	27.234	0.035	0.0	2	42.0	2	3.22	2	81.3	2	0.000	2	0.000	2	1.90	2	-9	9	-9	9	7.3300	2	-9	9	-9	40.0	-9	-9	-9
118	2	900.8	34.537	2	34.537	2	5.135	5.060	27.301	0.036	0.0	2	43.7	2	3.25	2	88.0	2	0.002	2	0.000	2	4.67	2	-9	9	-9	9	7.3274	2	-9	9	-9	-9	-9	-9	-9
117	2	1000.1	34.543	2	34.543	2	4.697	4.616	27.356	0.035	0.0	2	44.7	2	3.26	2	95.1	2	0.000	2	0.018	2	9.11	2	-9	9	-9	9	7.3319	2	-9	9	-9	41.9	2.6	-9	-9
116	2	1100.7	34.555	2	34.555	2	4.276	4.189	27.412	0.031	0.0	2	45.2	2	3.25	2	103.4	2	-9	9	-9	9	17.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1198.5	34.566	2	34.565	2	3.940	3.848	27.456	0.030	0.0	2	44.6	2	3.23	2	112.5	2	0.002	2	0.004	2	25.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1397.0	34.587	2	34.587	2	3.340	3.237	27.534	0.026	0.0	2	43.7	2	3.12	2	125.5	2	-9	9	-9	9	40.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1597.6	34.605	2	34.604	2	2.957	2.842	27.584	0.024	0.0	2	43.1	2	3.09	2	120.6	4	-9	9	-9	9	53.57	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1799.5	34.622	2	34.621	2	2.607	2.479	27.629	0.020	0.0	2	41.1	2	2.90	2	135.8	2	-0.002	2	-0.001	2	68.84	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1998.4	34.637	2	34.636	2	2.297	2.156	27.668	0.018	0.0	2	40.4	2	2.82	2	140.7	2	-9	9	-9	9	82.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	2195.3	34.647	2	34.649	2	2.103	1.949	27.693	0.017	0.0	2	39.8	2	2.74	2	143.2	2	-9	9	-9	9	91.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2399.2	34.656	2	34.656	2	1.955	1.784	27.713	0.015	0.0	2	38.9	2	2.72	2	148.8	2	0.001	2	0.008	2	100.47	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2600.0	34.664	2	34.664	2	1.822	1.636	27.731	0.014	0.0	2	38.8	2	2.66	2	153.6	2	-9	9	-9	9	108.80	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2798.5	34.670	2	34.670	2	1.734	1.532	27.743	0.012	0.0	2	37.8	2	2.61	2	154.8	2	-9	9	-9	9	116.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2997.2	34.674	2	34.675	2	1.685	1.465	27.751	0.011	0.0	6	37.8	6	2.58	6	151.7	6	0.005	2	0.000	2	121.35	2	-9	9	-9	9	-9	9	-9	9	-9	40.8	-9	-9	-9
105	2	3200.1	34.677	2	34.677	2	1.647	1.408	27.757	0.010	0.0	2	37.7	2	2.54	2	149.9	2	-9	9	-9	9	125.69	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3399.5	34.677	2	34.678	2	1.645	1.386	27.759	0.010	0.0	2	37.6	2	2.56	2	153.1	2	-9	9	-9	9	127.43	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	3	3599.5	34.678	2	-9	5	1.646	1.366	27.762	0.010	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3599.3	34.678	2	34.679	2	1.645	1.365	27.762	0.010	0.0	2	37.5	2	2.55	2	156.6	2	0.008	2	0.011	2	129.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3811.2	34.680	2	34.680	2	1.624	1.322	27.766	0.010	0.0	2	37.2	2	2.52	2	155.0	2	-0.001	2	0.009	2	132.74	2	-9	9	-9	9	-9	9	-9	9	-9	35.3	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 177 DATE 4/22/94 LATITUDE 15°29.9'N Btm Depth: 3789
CAST 1 LONGITUDE 109°59.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C patm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.9	33.949	2	33.953	2	27.600	27.597	21.735	0.076	0.0	2	0.0	2	0.11	2	0.0	2	-9	9	-9	9	202.67	2	259	2	1904.3	2	8.1184	2	2243	6	-9	79.8	6.1	-9	-9
135	2	25.2	33.918	2	33.921	2	27.416	27.410	21.772	0.080	0.0	2	0.0	2	0.11	2	0.0	2	-9	9	-9	9	203.08	2	-9	9	-9	9	8.1200	2	-9	9	-9	-9	5.1	-9	-9
134	2	49.5	34.031	2	34.043	2	26.619	26.608	22.112	0.081	0.0	2	0.0	2	0.09	2	0.0	2	-9	9	-9	9	208.18	2	262	2	1915.6	3	8.1160	2	2243	2	-9	-9	5.2	-9	-9
133	2	74.1	34.287	2	34.311	2	24.034	24.019	23.096	0.115	0.1	2	0.7	2	0.33	2	0.8	2	-9	9	-9	9	189.81	2	-9	9	-9	9	8.0209	2	-9	9	-9	78.8	5.0	-9	-9
132	3	100.3	34.325	2	34.324	2	17.623	17.606	24.851	0.067	0.2	2	14.5	2	1.38	2	9.2	2	-9	9	-9	9	96.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	2.6	-9	-9
131	2	125.7	34.445	2	34.443	2	15.474	15.455	25.444	0.046	0.0	2	22.1	2	1.95	2	16.4	2	-9	9	-9	9	49.43	2	-9	9	2187.7	2	7.5839	2	2270	2	-9	-9	-9	-9	-9
130	2	148.5	34.663	2	34.667	2	13.741	13.720	25.985	0.038	0.0	2	26.8	2	2.40	2	24.1	2	-9	9	-9	9	7.48	2	1446	2	2238.1	2	7.4727	2	2298	2	-9	43.5	-9	-9	-9
129	2	174.5	34.762	2	34.765	2	12.905	12.882	26.233	0.054	2.8	6	25.3	6	2.48	6	26.6	6	-9	9	-9	9	1.39	2	-9	9	-9	9	7.4557	2	-9	9	-9	-9	-9	-9	-9
128	2	200.2	34.753	2	34.754	2	12.064	12.038	26.390	0.054	2.4	2	27.1	2	2.50	2	28.3	2	-9	9	-9	9	0.71	2	1544	2	2255.2	2	7.4438	2	2298	2	-9	-9	-9	-9	-9
127	2	249.5	34.726	2	34.726	2	11.289	11.258	26.516	0.051	2.1	2	26.4	2	2.58	2	31.9	2	-9	9	-9	9	0.77	2	1668	2	2266.2	2	7.4212	2	2297	2	-9	-9	-9	-9	-9
126	2	299.4	34.696	2	34.696	2	10.708	10.672	26.598	0.047	2.5	2	24.6	2	2.64	2	35.7	2	-9	9	-9	9	0.93	2	1752	2	2276.2	2	7.4029	2	2311	2	-9	41.8	-9	-9	-9
125	2	349.3	34.659	2	34.658	2	10.096	10.055	26.677	0.044	1.2	2	26.4	2	2.76	2	39.4	2	-9	9	-9	9	0.83	2	-9	9	-9	9	7.3888	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.7	34.629	2	34.628	2	9.555	9.509	26.745	0.041	0.5	2	28.4	2	2.77	2	43.2	2	-9	9	-9	9	1.38	2	1826	2	2288.7	2	7.3759	2	2309	2	-9	46.3	-9	-9	-9
122	2	498.5	34.570	2	34.570	2	8.145	8.093	26.922	0.038	0.0	2	33.3	2	2.97	2	55.2	2	-9	9	-9	9	0.47	2	1952	2	2304.3	2	7.3601	2	2323	2	-9	-9	-9	-9	-9
121	2	599.3	34.542	2	34.542	2	7.112	7.054	27.051	0.033	0.0	2	37.3	2	3.11	2	66.2	2	-9	9	-9	9	1.10	2	2015	2	2318.7	2	7.3482	2	2338	2	-9	-9	-9	-9	-9
120	2	700.3	34.537	2	34.537	2	6.344	6.280	27.151	0.032	0.0	2	40.0	2	3.19	2	75.5	2	-9	9	-9	9	0.99	2	2085	2	2332.3	2	7.3375	2	2338	2	-9	-9	-9	-9	-9
119	2	799.9	34.534	2	34.535	2	5.586	5.516	27.244	0.034	0.0	2	42.9	2	3.24	2	83.9	2	-9	9	-9	9	2.01	2	2130	2	2342.3	2	7.3294	2	2353	2	-9	-9	-9	-9	-9
118	2	898.2	34.539	2	34.540	2	4.964	4.890	27.323	0.036	0.0	2	44.4	2	3.29	2	93.0	2	-9	9	-9	9	5.63	2	2147	2	2352.2	2	7.3289	2	2361	6	-9	-9	-9	-9	-9
117	3	1000.3	34.549	2	34.548	2	4.540	4.461	27.379	0.035	0.0	6	44.8	6	3.31	6	100.1	6	-9	9	-9	9	11.28	2	-9	9	-9	9	-9	9	-9	9	-9	39.3	-9	-9	-9
116	2	1100.0	34.559	2	34.558	2	4.210	4.124	27.422	0.031	0.0	2	44.9	2	3.27	2	105.8	2	-9	9	-9	9	16.46	2	-9	9	2364.6	2	-9	9	2370	2	-9	-9	-9	-9	-9
115	2	1198.2	34.569	2	34.570	2	3.863	3.771	27.467	0.030	0.0	2	44.6	2	3.25	2	113.0	2	-9	9	-9	9	23.51	6	-9	9	-9	9	7.3546	2	-9	9	-9	-9	-9	-9	-9
114	2	1299.4	34.579	2	34.579	2	3.530	3.433	27.508	0.027	0.0	2	44.1	2	3.16	2	119.6	2	-9	9	-9	9	34.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1397.5	34.589	2	34.589	2	3.311	3.208	27.537	0.026	0.0	2	43.8	2	3.10	2	125.0	2	-9	9	-9	9	40.80	2	-9	9	-9	9	7.3862	2	-9	9	-9	-9	-9	-9	-9
112	2	1498.1	34.597	2	34.597	2	3.137	3.028	27.561	0.024	0.0	2	43.3	2	3.10	2	127.9	2	-9	9	-9	9	46.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1597.8	34.609	2	34.609	2	2.888	2.773	27.593	0.023	0.0	2	42.6	2	3.04	2	131.8	2	-9	9	-9	9	55.84	2	-9	9	-9	9	7.4147	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.2	34.624	2	34.624	2	2.546	2.419	27.636	0.021	0.0	2	41.7	2	2.95	2	139.2	2	-9	9	-9	9	70.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1999.4	34.640	2	34.641	2	2.235	2.095	27.676	0.017	0.0	2	40.7	2	2.84	2	147.5	2	-9	9	-9	9	84.89	2	-9	9	-9	9	7.4702	2	-9	9	-9	-9	-9	-9	-9
108	2	2248.5	34.653	2	34.653	2	2.002	1.844	27.706	0.015	0.0	2	39.7	2	2.76	2	150.9	2	-9	9	-9	9	96.16	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2499.1	34.661	2	34.661	2	1.866	1.688	27.724	0.013	0.0	2	38.9	2	2.71	2	153.4	2	-9	9	-9	9	106.07	2	-9	9	-9	9	7.5111	2	-9	9	-9	-9	-9	-9	-9
106	2	2751.3	34.669	2	34.668	2	1.751	1.552	27.740	0.012	0.0	2	38.7	2	2.64	2	155.0	2	-9	9	-9	9	114.42	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2998.6	34.673	2	34.673	2	1.692	1.471	27.750	0.010	0.0	6	38.3	6	2.61	6	153.1	6	-9	9	-9	9	121.02	6	-9	9	-9	9	7.5364	2	-9	9	-9	-9	-9	-9	-9
104	2	3238.8	34.676	2	34.675	2	1.667	1.423	27.755	0.010	0.0	2	38.1	2	2.61	2	156.6	2	-9	9	-9	9	124.37	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3500.5	34.677	2	34.679	2	1.647	1.377	27.760	0.010	0.0	2	38.1	2	2.57	2	159.2	2	-9	9	-9	9	127.93	6	-9	9	-9	9	7.5493	2	-9	9	-9	-9	-9	-9	-9
102	2	3499.6	34.678	2	34.677	2	1.646	1.376	27.760	0.010	0.0	2	38.0	2	2.57	2	158.0	2	-9	9	-9	9	128.26	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3788.4	34.678	2	34.678	2	1.669	1.368	27.761	0.010	0.0	2	37.6	2	2.55	2	156.7	2	-9	9	-9	9	130.80	2	-9	9	-9	9	7.5493	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 178 DATE 4/22/94 LATITUDE 16°0.1'N Btm Depth: 3307
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.1	34.184	2	34.190	2	27.000	26.998	22.104	0.069	0.0	2	0.1	2	0.14	2	0.0	2	1.875	2	1.021	2	209.50	2	269	2	1931.2	2	8.1068	2	2251	2	1.60	-9	-9	-9	-9
135	2	8.3	34.214	2	34.206	2	26.804	26.802	22.189	0.069	0.0	2	0.1	2	0.15	2	0.0	2	1.880	2	1.018	2	209.29	2	267	2	1930.9	2	8.1058	2	2255	2	-9	-9	-9	-9	-9
134	2	25.1	34.497	2	34.498	2	25.170	25.164	22.912	0.076	0.0	2	0.0	2	0.17	2	0.0	2	1.975	2	1.066	2	215.30	2	288	2	1962.5	2	8.0908	2	2287	2	1.70	-9	-9	-9	-9
133	2	48.3	34.484	2	34.503	2	24.156	24.145	23.208	0.073	0.0	2	0.0	2	0.24	2	0.0	2	2.053	2	1.102	2	216.98	2	304	2	1978.0	2	8.0687	2	2292	2	1.70	-9	-9	-9	-9
132	2	73.3	34.251	2	34.338	3	21.469	21.455	23.800	0.076	0.0	2	0.2	2	0.39	2	0.5	2	2.173	2	1.142	2	207.46	2	373	2	2010.5	2	8.0054	2	2284	2	1.50	-9	-9	-9	-9
131	2	100.8	34.246	2	34.254	2	16.774	16.758	24.992	0.061	0.1	2	13.8	2	1.39	2	9.6	2	2.062	6	1.035	6	108.38	2	775	2	2131.2	2	7.7224	2	2272	2	0.50	-9	-9	-9	-9
130	2	125.2	34.482	2	34.482	2	14.829	14.811	25.613	0.040	0.0	2	23.8	2	2.08	2	17.8	2	1.319	2	0.665	2	34.80	2	1251	2	2204.6	2	7.5406	2	2290	3	0.00	-9	-9	-9	-9
129	2	149.4	34.679	2	34.678	2	13.398	13.377	26.068	0.032	0.0	2	26.7	2	2.44	2	24.7	2	0.662	2	0.349	2	6.43	2	1523	2	2243.1	2	7.4635	2	2292	2	-9	-9	-9	-9	-9
128	2	174.8	34.743	2	34.745	2	12.463	12.440	26.305	0.033	0.0	2	27.4	2	2.53	2	27.4	2	0.355	2	0.201	2	0.69	2	1583	2	2253.1	2	7.4484	2	2305	2	-0.30	-9	-9	-9	-9
127	2	199.7	34.739	2	-9	5	12.123	12.097	26.368	0.038	-9	9	-9	9	-9	9	-9	9	0.254	2	0.144	2	-9	1	1631	2	2260.9	2	-9	9	2293	2	-9	-9	-9	-9	-9
126	2	250.8	34.707	2	34.706	2	11.259	11.228	26.506	0.042	0.4	2	26.3	2	2.58	2	31.8	2	0.148	2	0.077	2	0.63	2	1715	2	2270.5	2	7.4148	2	2299	2	-0.20	-9	-9	-9	-9
125	2	301.5	34.694	2	34.693	2	10.795	10.758	26.581	0.046	1.9	2	24.4	2	2.62	2	33.2	2	0.080	6	0.044	6	0.78	2	1762	2	2276.4	2	7.4040	2	2303	2	-0.30	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	348.9	34.649	2	34.649	2	9.979	9.938	26.689	0.042	1.0	2	26.2	2	2.70	2	37.9	2	0.033	2	0.018	2	0.62	2	1841	2	2285.1	2	-9	9	2301	2	-0.30	-9	-9	-9	-9
122	2	400.0	34.616	2	34.616	2	9.166	9.122	26.798	0.040	0.3	2	28.0	2	2.84	2	44.7	2	0.021	6	0.010	6	0.59	2	1900	2	2296.0	2	7.3735	2	2311	2	-0.30	-9	-9	-9	-9
121	2	449.4	34.580	2	34.579	2	8.524	8.476	26.871	0.039	0.0	2	30.7	2	2.91	2	50.4	2	0.019	2	0.005	2	0.55	6	1941	2	2302.1	2	7.3651	2	2315	2	-0.30	-9	-9	-9	-9
120	2	498.7	34.554	2	34.553	2	7.873	7.823	26.950	0.038	0.0	2	33.3	2	2.98	2	56.1	2	0.005	2	0.003	2	1.82	2	1990	2	2308.2	2	7.3560	2	2311	2	-0.20	-9	-9	-9	-9
119	2	600.3	34.537	2	34.537	2	6.783	6.727	27.092	0.033	0.0	2	37.3	2	3.10	2	67.8	2	0.000	2	0.000	2	0.55	2	2056	2	2322.5	2	7.3437	2	2330	2	-0.30	-9	-9	-9	-9
118	2	682.6	34.531	2	34.531	2	6.102	6.041	27.177	0.033	0.0	2	40.2	2	3.16	2	75.0	2	0.001	2	0.002	2	0.95	2	2101	2	2334.8	2	7.3337	2	2338	2	-0.30	-9	-9	-9	-9
117	2	799.9	34.533	2	34.533	2	5.377	5.309	27.269	0.036	0.0	2	42.5	2	3.21	2	83.9	2	0.003	2	0.003	2	2.94	2	2134	3	2344.0	2	7.3289	2	2349	2	-0.30	-9	-9	-9	-9
116	2	903.3	34.537	2	34.538	2	4.946	4.871	27.323	0.036	0.0	2	43.6	2	3.25	2	90.1	2	0.002	2	0.002	2	5.61	2	2141	2	2353.6	2	7.3295	2	2352	2	-0.40	-9	-9	-9	-9
115	2	998.0	34.546	2	34.547	2	4.472	4.393	27.383	0.034	0.0	2	44.1	2	3.23	2	98.1	2	-9	9	-9	9	12.16	2	2105	2	2359.9	2	7.3378	2	2359	6	-0.40	-9	-9	-9	-9
114	2	1099.6	34.556	2	34.556	2	4.091	4.006	27.433	0.031	0.0	2	44.1	2	3.22	2	105.0	2	-9	9	-9	9	19.83	2	2054	2	2363.8	2	7.3491	2	2368	2	-0.40	-9	-9	-9	-9
113	2	1300.2	34.576	2	34.576	2	3.615	3.517	27.498	0.027	0.0	2	43.8	2	3.17	2	117.9	2	0.000	2	0.000	2	30.44	2	1976	2	2368.2	2	7.3684	2	2379	2	-0.40	-9	-9	-9	-9
112	2	1500.0	34.598	2	34.599	2	3.073	2.965	27.568	0.024	0.0	2	43.1	2	3.07	2	132.1	2	-9	9	-9	9	48.62	2	1823	2	2370.5	2	7.4020	2	2392	2	-0.30	-9	-9	-9	-9
111	2	1699.4	34.615	2	34.616	2	2.721	2.599	27.614	0.021	0.0	2	42.0	2	2.96	2	137.3	2	-9	9	-9	9	62.90	6	1722	2	2370.6	2	7.4283	2	2413	2	-0.30	-9	-9	-9	-9
110	2	1900.7	34.633	2	34.634	2	2.348	2.214	27.661	0.020	0.0	2	40.9	2	2.84	2	143.2	2	0.001	2	-0.002	2	79.17	2	1598	2	2367.5	2	7.4620	2	2415	2	-0.30	-9	-9	-9	-9
109	2	2099.5	34.647	2	34.647	2	2.096	1.949	27.692	0.017	0.0	2	39.7	2	2.75	2	147.9	2	-9	9	-9	9	90.38	2	1523	3	2367.0	2	7.4811	2	2425	2	-0.30	-9	-9	-9	-9
108	2	2298.3	34.657	2	34.657	2	1.933	1.772	27.715	0.016	0.0	2	39.0	2	2.74	2	154.2	2	-9	9	-9	9	100.74	2	1449	2	2364.8	2	-9	1	2414	2	-0.20	-9	-9	-9	-9
107	2	2499.5	34.665	2	34.665	2	1.802	1.626	27.732	0.014	0.0	2	38.6	2	2.67	2	158.8	2	0.000	2	0.001	2	109.54	2	-9	9	2359.9	2	7.5185	2	2434	2	-0.10	-9	-9	-9	-9
106	2	2698.8	34.669	2	34.671	2	1.743	1.549	27.741	0.012	0.0	2	38.1	2	2.64	2	158.9	2	-9	9	-9	9	114.33	2	1363	2	2358.9	2	7.5279	2	2436	2	-0.10	-9	-9	-9	-9
105	2	2897.4	34.672	2	34.672	2	1.697	1.486	27.748	0.011	0.0	2	37.9	2	2.62	2	156.7	2	-9	9	-9	9	119.07	2	1331	2	2355.5	2	7.5358	2	2424	2	-0.10	-9	-9	-9	-9
104	2	3099.1	34.674	2	34.674	2	1.682	1.451	27.752	0.011	0.0	6	38.1	6	2.58	6	154.4	6	-9	9	-9	9	121.62	2	1322	2	2354.2	2	7.5384	2	2424	2	-0.10	-9	-9	-9	-9
103	2	3098.7	34.674	2	34.674	2	1.682	1.451	27.752	0.011	0.0	2	37.9	2	2.58	2	160.0	2	0.000	2	0.002	2	-9	1	1320	2	2353.8	2	7.5408	2	2427	2	-9	-9	-9	-9	-9
102	2	3307.4	34.675	2	34.676	2	1.678	1.427	27.755	0.010	0.0	2	37.7	2	2.58	2	161.1	2	0.003	2	0.000	2	123.38	2	1305	2	2353.0	2	7.5415	2	2427	2	-9	-9	-9	-9	-9
101	2	3307.1	34.675	2	34.676	2	1.678	1.427	27.755	0.010	0.0	2	37.6	2	2.58	2	158.1	2	-9	9	-9	9	123.63	2	1300	2	2349.4	3	7.5430	2	2380	2	-0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 179 DATE 4/22/94 LATITUDE 16°30.0'N Btm Depth: 3397
CAST 1 LONGITUDE 110°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	34.214	2	34.215	2	27.006	27.004	22.125	0.065	0.0	2	0.1	2	0.11	2	0.3	2	-9	9	-9	9	203.50	2	268	2	1930.9	2	8.1049	2	2252	6	-9	-9	-9	0.106	0.035
135	2	24.3	34.527	2	34.474	3	25.361	25.356	22.875	0.077	0.0	2	0.0	2	0.18	2	0.4	2	-9	9	-9	9	213.92	2	-9	9	-9	9	8.0817	2	-9	9	-9	-9	-9	0.121	0.049
134	2	49.3	34.427	2	34.417	2	23.235	23.225	23.434	0.085	0.0	2	0.1	2	0.32	2	0.7	2	-9	9	-9	9	214.21	2	330	2	2001.3	2	8.0313	2	2284	2	-9	-9	-9	0.288	0.203
133	2	76.1	34.392	2	34.378	2	19.191	19.177	24.511	0.102	0.3	2	10.6	2	1.17	2	6.3	2	-9	9	-9	9	118.91	2	-9	9	-9	9	7.8123	2	-9	9	-9	-9	-9	0.413	0.450
132	2	100.4	34.278	2	34.295	2	16.436	16.420	25.096	0.049	0.1	2	16.9	2	1.62	2	12.3	2	-9	9	-9	9	82.03	2	892	2	2152.3	2	7.6658	2	2273	2	-9	-9	-9	0.133	0.189
131	2	124.4	34.607	2	34.608	2	14.541	14.523	25.772	0.036	0.0	2	25.7	2	2.31	2	22.1	2	-9	9	-9	9	15.08	2	-9	9	-9	9	7.4944	2	-9	9	-9	-9	-9	0.045	0.069
130	2	150.4	34.730	2	34.732	2	13.365	13.344	26.114	0.040	0.0	2	26.7	2	2.47	2	26.1	2	-9	9	-9	9	0.46	2	-9	9	-9	9	7.4548	2	-9	9	-9	-9	-9	0.004	0.051
129	2	173.8	34.763	2	34.763	2	12.610	12.587	26.291	0.051	1.8	2	24.9	2	2.52	2	27.8	2	-9	9	-9	9	0.93	2	-9	9	-9	9	7.4484	2	-9	9	-9	-9	-9	0.007	0.127
128	2	199.2	34.763	2	34.763	2	12.161	12.135	26.379	0.053	2.7	2	24.2	2	2.54	2	29.8	2	-9	9	-9	9	0.66	2	1577	2	2258.7	2	7.4420	2	2305	2	-9	-9	-9	0.004	0.129
127	2	248.2	34.729	2	34.728	2	11.362	11.331	26.504	0.051	2.3	2	24.1	2	2.62	2	33.3	2	-9	9	-9	9	0.57	2	-9	9	-9	9	7.4197	2	-9	9	-9	-9	-9	0.002	0.105
126	2	299.1	34.680	2	34.680	2	10.568	10.532	26.609	0.048	1.8	2	23.7	2	2.70	2	37.7	2	-9	9	-9	9	0.50	6	1762	2	2279.0	2	7.3966	2	2312	2	-9	-9	-9	0.002	0.083
125	2	349.7	34.637	2	34.635	2	9.800	9.760	26.709	0.045	0.5	2	26.5	2	2.79	2	42.5	2	-9	9	-9	9	0.65	2	-9	9	-9	9	7.3813	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.1	34.596	2	34.596	2	9.069	9.025	26.798	0.040	0.0	2	29.3	2	2.86	2	46.9	2	-9	9	-9	9	0.48	2	1908	2	2294.4	2	7.3658	2	2305	2	-9	-9	-9	-9	-9
122	2	451.1	34.584	2	34.583	2	8.531	8.483	26.874	0.039	0.1	2	30.3	2	2.95	2	51.7	2	-9	9	-9	9	0.21	2	-9	9	-9	9	7.3644	2	-9	9	-9	-9	-9	-9	-9
121	3	501.1	34.557	2	34.557	2	7.919	7.868	26.945	0.037	0.0	2	32.7	2	3.01	2	56.9	2	-9	9	-9	9	0.53	2	-9	9	2307.7	2	-9	9	2320	2	-9	-9	-9	-9	-9
120	2	599.3	34.532	2	34.533	2	6.885	6.829	27.074	0.032	0.0	2	36.6	2	3.14	2	70.7	2	-9	9	-9	9	0.52	2	2042	2	2323.8	2	7.3437	2	2330	2	-9	-9	-9	-9	-9
119	2	702.0	34.525	2	34.525	2	5.936	5.874	27.194	0.032	0.0	2	40.1	2	3.22	2	83.1	2	-9	9	-9	9	1.02	2	2111	2	2336.6	2	7.3328	2	2339	2	-9	-9	-9	-9	-9
118	2	800.5	34.531	2	34.532	2	5.228	5.161	27.285	0.036	0.0	2	42.8	2	3.22	2	93.3	2	-9	9	-9	9	2.71	2	2155	2	2347.8	2	7.3281	2	2347	2	-9	-9	-9	-9	-9
117	2	900.9	34.538	2	34.537	2	4.803	4.730	27.340	0.036	0.0	2	43.8	2	3.24	2	98.1	2	-9	9	-9	9	6.96	2	2137	2	2355.6	2	7.3308	2	2360	2	-9	-9	-9	-9	-9
116	2	1000.6	34.546	2	34.546	2	4.353	4.274	27.396	0.032	0.0	2	43.7	2	3.17	2	105.8	2	-9	9	-9	9	12.49	2	2135	2	2360.4	2	7.3381	2	2374	2	-9	-9	-9	-9	-9
115	2	1101.1	34.558	2	34.557	2	3.989	3.905	27.444	0.030	0.0	2	43.6	2	3.14	2	111.5	2	-9	9	-9	9	21.12	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1201.8	34.568	2	34.568	2	3.719	3.629	27.480	0.028	0.0	2	43.6	2	3.08	2	115.0	2	-9	9	-9	9	28.73	2	-9	9	-9	9	7.3649	2	-9	9	-9	-9	-9	-9	-9
113	2	1399.5	34.589	2	34.589	2	3.233	3.131	27.545	0.024	0.0	2	42.8	2	2.99	2	126.6	2	-9	9	-9	9	43.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1599.5	34.610	2	34.609	2	2.797	2.683	27.602	0.022	0.0	2	41.7	2	2.92	2	138.6	2	-9	9	-9	9	58.47	2	-9	9	-9	9	7.4204	2	-9	9	-9	-9	-9	-9	-9
111	2	1800.2	34.627	2	34.627	2	2.488	2.361	27.643	0.020	0.0	2	42.0	2	2.80	2	147.2	2	-9	9	-9	9	71.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1999.5	34.641	2	34.641	2	2.202	2.063	27.679	0.017	0.0	2	39.5	2	2.71	2	150.9	2	-9	9	-9	9	86.89	2	-9	9	-9	9	7.4734	2	-9	9	-9	-9	-9	-9	-9
109	2	2199.4	34.653	2	34.653	2	1.973	1.820	27.708	0.016	0.0	2	38.6	2	2.61	2	152.6	2	-9	9	-9	9	97.15	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2398.6	34.661	2	34.661	2	1.844	1.676	27.725	0.014	0.0	2	37.9	2	2.56	2	154.2	2	-9	9	-9	9	105.43	2	-9	9	-9	9	7.5101	2	-9	9	-9	-9	-9	-9	-9
107	2	2601.7	34.667	2	34.666	2	1.764	1.579	27.737	0.012	0.0	2	37.8	2	2.52	2	156.3	2	-9	9	-9	9	111.53	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2799.3	34.669	2	34.669	2	1.717	1.515	27.744	0.012	0.0	2	37.6	2	2.53	2	157.3	2	-9	9	-9	9	114.83	2	-9	9	-9	9	7.5285	2	-9	9	-9	-9	-9	-9	-9
105	2	3000.4	34.671	2	34.671	2	1.703	1.481	27.748	0.011	0.0	6	37.5	6	2.57	6	158.6	6	-9	9	-9	9	117.74	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3197.1	34.673	2	34.673	2	1.699	1.458	27.751	0.010	0.0	2	37.4	2	2.58	2	158.7	2	-9	9	-9	9	120.30	2	-9	9	-9	9	7.5369	2	-9	9	-9	-9	-9	-9	-9
103	2	3399.5	34.674	2	34.675	2	1.708	1.447	27.752	0.010	0.0	2	37.3	2	2.56	2	161.2	2	-9	9	-9	9	121.34	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3399.4	34.674	2	34.674	2	1.708	1.447	27.752	0.010	0.0	2	37.2	2	2.56	2	160.3	2	-9	9	-9	9	121.45	6	-9	9	-9	9	7.5391	2	-9	9	-9	-9	-9	-9	-9
101	2	3480.8	34.674	2	34.675	2	1.715	1.445	27.753	0.010	0.0	2	37.0	2	2.56	2	158.2	2	-9	9	-9	9	121.68	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 180 DATE 4/22/94 LATITUDE 17°0.0'N Btm Depth: 3521
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.3	34.079	2	34.082	2	27.319	27.317	21.923	0.071	0.0	2	0.1	2	0.13	2	0.0	2	1.800	2	1.014	2	203.88	2	271	3	1919.0	2	8.1135	2	2244	6	1.60	88.9	6.5	-9	-9
135	2	25.0	34.060	2	34.067	2	26.898	26.892	22.044	0.083	0.0	2	0.0	2	0.13	2	0.0	2	1.807	2	0.995	2	205.29	2	-9	9	-9	9	8.1145	2	-9	9	-9	-9	-9	-9	-9
134	2	48.9	34.512	2	34.517	2	24.959	24.949	22.988	0.081	0.0	2	0.0	2	0.18	2	0.2	2	1.985	2	1.077	2	213.31	2	-9	9	-9	9	8.0831	2	-9	9	-9	-9	7.1	-9	-9
133	2	75.5	34.487	2	34.492	2	23.863	23.847	23.298	0.117	0.0	2	0.1	2	0.23	2	0.3	2	2.047	6	1.108	6	213.80	2	-9	9	-9	9	8.0615	2	-9	9	-9	85.1	-9	-9	-9
132	2	99.3	34.437	2	34.438	2	18.386	18.368	24.750	0.060	0.3	2	18.0	2	1.59	2	10.3	2	1.507	2	0.788	2	69.23	2	-9	9	-9	9	7.6893	2	-9	9	-9	55.1	3.6	-9	-9
131	2	123.5	34.483	2	34.453	3	15.399	15.380	25.490	0.039	0.0	2	22.4	2	1.99	2	16.9	2	1.451	2	0.737	2	42.70	6	-9	9	-9	9	7.5642	2	-9	9	-9	-9	-9	-9	-9
130	2	149.3	34.738	2	34.745	2	13.489	13.468	26.095	0.045	0.8	2	26.0	2	2.47	2	25.3	2	0.490	2	0.271	2	0.60	2	-9	9	-9	9	7.4597	2	-9	9	-9	56.6	2.4	-9	-9
129	2	174.2	34.759	2	34.759	2	12.794	12.771	26.252	0.048	2.1	2	25.0	2	2.50	2	26.8	2	0.359	2	0.204	2	0.68	2	-9	9	-9	9	7.4525	2	-9	9	-9	-9	-9	-9	-9
128	2	199.2	34.756	2	34.757	2	12.196	12.170	26.367	0.051	2.7	2	24.7	2	2.55	2	29.1	2	0.225	2	0.130	2	0.73	2	-9	9	-9	9	7.4398	2	-9	9	-9	51.6	-9	-9	-9
127	2	248.6	34.739	2	34.738	2	11.521	11.489	26.483	0.052	2.6	2	23.8	2	2.61	2	32.3	2	0.120	2	0.069	2	0.62	2	-9	9	-9	9	7.4227	2	-9	9	-9	-9	-9	-9	-9
126	2	299.4	34.695	2	34.696	2	10.775	10.738	26.585	0.050	2.1	2	23.5	2	2.67	2	36.5	2	0.076	2	0.056	2	1.61	2	-9	9	-9	9	7.4018	2	-9	9	-9	45.8	-9	-9	-9
125	2	349.1	34.635	2	34.638	2	9.833	9.792	26.702	0.045	0.3	2	26.9	2	2.76	2	41.8	2	0.051	6	0.030	6	0.40	2	-9	9	-9	9	7.3817	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.8	34.601	2	34.601	2	9.127	9.083	26.792	0.042	0.0	2	29.2	2	2.86	2	46.9	2	0.031	2	0.016	2	0.84	2	-9	9	-9	9	7.3682	2	-9	9	-9	43.5	-9	-9	-9
122	2	501.4	34.540	2	34.541	2	7.600	7.550	26.979	0.038	0.0	2	34.3	2	3.04	2	60.9	2	0.013	2	0.004	2	0.60	2	-9	9	-9	9	7.3498	2	-9	9	-9	48.5	-9	-9	-9
121	2	599.7	34.530	2	34.530	2	6.652	6.596	27.103	0.036	0.0	2	38.6	2	3.14	2	70.7	2	0.002	6	-0.001	6	0.74	6	-9	9	-9	9	7.3394	2	-9	9	-9	-9	-9	-9	-9
120	2	699.4	34.531	2	34.530	2	5.945	5.883	27.197	0.033	0.0	2	41.5	2	3.23	2	80.1	2	0.002	2	0.010	2	1.04	2	-9	9	-9	9	7.3317	2	-9	9	-9	-9	-9	-9	-9
119	2	801.5	34.530	2	34.531	2	5.252	5.185	27.281	0.037	0.0	2	43.9	2	3.27	2	91.8	2	0.000	2	-0.002	2	2.54	2	-9	9	-9	9	7.3273	2	-9	9	-9	-9	-9	-9	-9
118	2	899.1	34.535	2	34.536	2	4.832	4.758	27.335	0.036	0.0	2	44.1	2	3.30	2	101.5	2	0.007	2	0.001	2	5.79	2	-9	9	-9	9	7.3262	2	-9	9	-9	-9	-9	-9	-9
117	2	998.9	34.545	2	34.546	2	4.405	4.326	27.390	0.033	0.0	2	44.3	2	3.31	2	107.7	2	0.000	2	-0.002	2	11.49	2	-9	9	-9	9	7.3354	2	-9	9	-9	39.3	2.1	-9	-9
116	2	1099.4	34.558	2	34.557	2	4.004	3.920	27.443	0.030	0.0	2	44.4	2	3.24	2	112.8	2	-9	9	-9	9	20.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1199.0	34.569	2	34.569	2	3.683	3.593	27.485	0.028	0.0	2	44.2	2	3.19	2	117.7	2	-9	9	-9	9	28.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1300.9	34.584	2	34.585	2	3.440	3.344	27.521	0.029	0.0	2	45.1	2	3.16	2	123.6	2	-0.002	2	-0.001	2	34.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1399.7	34.594	2	34.595	2	3.215	3.113	27.551	0.027	0.0	2	43.6	2	3.15	2	132.0	2	-9	9	-9	9	42.95	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1598.7	34.612	2	34.611	2	2.804	2.691	27.603	0.023	0.0	2	42.3	2	3.00	2	141.6	2	-9	9	-9	9	57.83	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1800.0	34.628	2	34.627	2	2.473	2.346	27.646	0.022	0.0	2	41.2	2	2.91	2	146.6	2	-0.001	2	0.001	2	72.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1999.3	34.642	2	34.642	2	2.193	2.053	27.681	0.019	0.0	2	40.6	2	2.79	2	149.8	2	-9	9	-9	9	85.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2200.0	34.652	2	34.653	2	2.007	1.853	27.705	0.016	0.0	2	39.8	2	2.76	2	154.7	2	0.000	2	-0.002	2	95.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	3	2401.0	34.661	2	34.661	2	1.861	1.692	27.723	0.016	0.0	2	39.2	2	2.74	2	153.3	2	-9	9	-9	9	104.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2600.0	34.666	2	34.665	2	1.773	1.588	27.735	0.014	0.0	2	38.7	2	2.68	2	154.3	2	-9	9	-9	9	110.50	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2799.0	34.669	2	34.669	2	1.718	1.516	27.744	0.012	0.0	2	38.4	2	2.64	2	155.0	2	-9	9	-9	9	115.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2997.8	34.672	2	34.672	2	1.699	1.478	27.749	0.012	0.0	6	38.5	6	2.63	6	158.2	6	-0.001	2	-0.002	2	117.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3199.3	34.674	2	34.674	2	1.692	1.451	27.752	0.011	0.0	2	38.2	2	2.60	2	161.1	2	-9	9	-9	9	120.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3401.2	34.675	2	34.676	2	1.701	1.440	27.753	0.011	0.0	2	38.4	2	2.63	2	158.1	2	0.000	2	-0.002	2	121.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3400.1	34.675	2	34.675	2	1.701	1.440	27.754	0.012	0.0	2	38.1	2	2.60	2	156.6	2	-9	9	-9	9	121.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3550.8	34.675	2	34.675	2	1.711	1.434	27.754	0.012	0.0	2	38.5	2	2.59	2	155.1	2	-9	9	-9	9	122.62	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 181 DATE 4/23/94 LATITUDE 17°30.1'N Btm Depth: 3468
CAST 1 LONGITUDE 109°59.8'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.1	34.168	2	34.175	2	26.780	26.778	22.161	0.076	0.0	2	0.0	2	0.13	2	0.0	2	1.838	2	1.021	2	206.28	2	264	2	1933.3	2	8.1064	2	2261	6	-9	-9	5.6	-9	-9
135	2	23.1	34.418	2	34.416	2	25.953	25.947	22.611	0.090	0.0	2	0.0	2	0.17	2	0.0	2	1.916	6	1.043	6	209.29	2	-9	9	-9	9	8.0939	2	-9	9	-9	-9	5.7	-9	-9
134	2	48.7	34.507	2	34.512	2	24.923	24.912	22.995	0.083	0.0	2	0.0	2	0.16	2	0.0	2	1.983	2	1.056	2	213.02	2	2244	4	1970.9	2	8.0871	2	2283	2	-9	88.3	5.9	-9	-9
133	2	74.4	34.431	2	34.438	2	23.198	23.183	23.449	0.088	0.0	2	0.0	2	0.31	2	0.0	2	2.114	2	1.133	2	215.42	2	-9	9	-9	9	8.0424	2	-9	9	-9	-9	5.7	-9	-9
132	2	98.9	34.306	2	34.242	3	18.763	18.746	24.555	0.068	0.4	2	10.0	2	1.11	2	4.1	2	1.968	2	1.013	2	126.95	2	572	2	2098.5	2	7.8062	2	2262	2	-9	76.6	-9	-9	-9
131	2	123.1	34.525	2	34.529	2	15.262	15.244	25.552	0.049	0.0	2	24.1	2	2.14	2	16.5	2	1.275	2	0.647	2	31.50	2	-9	9	-9	9	7.5417	2	-9	9	-9	-9	-9	-9	-9
130	2	149.3	34.715	2	34.713	2	14.016	13.995	25.968	0.042	0.0	2	27.4	2	2.47	2	22.2	2	0.687	2	0.360	2	0.48	2	1470	2	2245.8	2	7.4669	2	2291	2	-9	-9	-9	-9	-9
129	2	173.6	34.760	2	34.760	2	13.318	13.294	26.148	0.046	1.5	2	25.1	2	2.48	2	24.2	2	0.452	2	0.248	2	0.61	6	-9	9	-9	9	7.4594	2	-9	9	-9	-9	-9	-9	-9
128	2	199.5	34.765	2	34.765	2	12.657	12.630	26.285	0.049	2.7	2	24.5	2	2.53	2	26.1	2	0.311	2	0.174	2	1.07	2	1541	2	2257.0	2	7.4502	2	2299	2	-9	62.5	-9	-9	-9
127	2	250.2	34.741	2	34.741	2	11.659	11.627	26.459	0.050	2.4	2	24.5	2	2.57	2	29.9	2	0.148	6	0.084	6	0.69	2	1647	2	2267.1	2	7.4287	2	2298	2	-9	-9	-9	-9	-9
126	2	294.9	34.707	2	34.707	2	10.969	10.933	26.559	0.048	2.3	2	23.2	2	2.66	2	33.1	2	0.093	2	0.051	2	4.67	2	1737	2	2276.6	2	7.4071	2	2301	2	-9	-9	-9	-9	-9
125	2	330.4	34.681	2	34.680	2	10.529	10.489	26.618	0.046	1.7	2	24.2	2	2.70	2	35.8	2	0.064	2	0.040	2	1.32	2	-9	9	-9	9	7.3957	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.7	34.628	2	34.629	2	9.609	9.563	26.735	0.041	0.4	2	27.5	2	2.83	2	42.4	2	0.035	2	0.015	2	0.44	2	1871	2	2292.3	2	7.3739	2	2307	2	-9	-9	-9	-9	-9
122	2	501.0	34.554	2	34.554	2	8.018	7.967	26.928	0.037	0.0	2	32.8	2	3.02	2	57.3	2	-9	9	-9	9	2.08	2	1982	2	2308.4	2	7.3548	2	2317	2	-9	58.3	-9	-9	-9
121	2	599.3	34.530	2	34.530	2	6.923	6.866	27.067	0.035	0.0	2	37.0	2	3.14	2	69.7	2	0.009	2	0.002	2	1.18	2	2044	2	2322.1	2	7.3421	2	2333	2	-9	-9	-9	-9	-9
120	2	698.8	34.525	2	34.525	2	6.000	5.938	27.185	0.032	0.0	2	41.0	2	3.22	2	81.0	2	-9	9	-9	9	1.42	2	2114	2	2336.1	2	7.3317	2	2338	2	-9	-9	-9	-9	-9
119	2	797.8	34.529	2	34.529	2	5.366	5.298	27.267	0.034	0.0	2	43.4	2	3.27	2	89.6	2	-0.001	2	-0.002	2	2.80	2	2148	2	2346.2	2	7.3273	2	2346	2	-9	-9	-9	-9	-9
118	2	898.4	34.537	2	34.538	2	4.934	4.860	27.324	0.034	0.0	2	44.5	2	3.28	2	96.8	2	-9	9	-9	9	4.09	2	2163	2	2353.1	2	7.3258	2	2355	2	-9	-9	-9	-9	-9
117	2	999.6	34.545	2	34.545	2	4.452	4.373	27.385	0.032	0.0	2	45.3	2	3.30	2	105.1	2	0.003	2	-0.002	2	10.57	2	2132	2	2360.0	2	7.3322	2	2364	6	-9	-9	-9	-9	-9
116	2	1098.5	34.554	2	34.554	2	4.114	4.029	27.429	0.029	0.0	2	45.4	2	3.27	2	112.1	2	-9	9	-9	9	17.08	2	-9	9	-9	9	7.3434	2	-9	9	-9	-9	-9	-9	-9
115	2	1197.7	34.567	2	34.567	2	3.750	3.660	27.476	0.028	0.0	2	45.0	2	3.24	2	118.7	2	-9	9	-9	9	24.91	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1301.2	34.580	2	34.581	2	3.461	3.365	27.516	0.026	0.0	2	44.8	2	3.19	2	125.7	2	-9	9	-9	9	33.17	2	-9	9	-9	9	7.3722	2	-9	9	-9	-9	-9	-9	-9
113	2	1400.9	34.591	2	34.592	2	3.219	3.117	27.548	0.024	0.0	2	43.3	2	3.20	2	128.8	2	-9	9	-9	9	40.91	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1599.9	34.613	2	34.613	2	2.742	2.628	27.609	0.022	0.0	2	42.3	2	3.08	2	137.6	2	-9	9	-9	9	59.34	2	-9	9	-9	9	7.4223	2	-9	9	-9	-9	-9	-9	-9
111	2	1800.6	34.630	2	34.629	2	2.422	2.296	27.651	0.020	0.0	2	41.4	2	2.98	2	144.8	2	-9	9	-9	9	75.05	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1998.8	34.642	2	34.642	2	2.198	2.058	27.681	0.018	0.0	2	40.6	2	2.90	2	152.3	2	-9	9	-9	9	85.20	2	-9	9	-9	9	7.4727	2	-9	9	-9	-9	-9	-9	-9
109	2	2200.0	34.654	2	34.654	2	1.984	1.830	27.708	0.015	0.0	2	39.4	2	2.81	2	155.7	2	-9	9	-9	9	96.88	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2401.8	34.660	2	34.661	2	1.864	1.695	27.723	0.015	0.0	2	39.1	2	2.76	2	157.4	2	-9	9	-9	9	104.29	2	-9	9	-9	9	7.5082	2	-9	9	-9	-9	-9	-9	-9
107	2	2600.0	34.666	2	34.665	2	1.776	1.591	27.735	0.012	0.0	2	38.6	2	2.72	2	157.9	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2800.7	34.669	2	34.669	2	1.720	1.518	27.743	0.011	0.0	2	38.3	2	2.69	2	158.6	2	-9	9	-9	9	116.17	2	-9	9	-9	9	7.5275	2	-9	9	-9	-9	-9	-9	-9
105	2	3000.6	34.672	2	34.673	2	1.693	1.472	27.749	0.012	0.0	6	38.3	6	2.68	6	158.5	6	-9	9	-9	9	118.32	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3199.3	34.675	2	34.675	2	1.688	1.447	27.753	0.010	0.0	2	38.0	2	2.66	2	152.8	2	-9	9	-9	9	120.72	2	-9	9	-9	9	7.5369	2	-9	9	-9	-9	-9	-9	-9
103	2	3399.8	34.675	2	34.676	2	1.700	1.439	27.754	0.011	0.0	2	38.1	2	2.65	2	152.5	2	-9	9	-9	9	121.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3400.5	34.675	2	34.675	2	1.700	1.439	27.754	0.012	0.0	2	38.2	2	2.67	2	154.5	2	-9	9	-9	9	121.69	2	-9	9	-9	9	7.5395	2	-9	9	-9	-9	-9	-9	-9
101	2	3513.6	34.675	2	34.675	2	1.709	1.436	27.754	0.012	0.0	2	38.5	2	2.64	2	157.9	2	-9	9	-9	9	121.75	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 182 DATE 4/23/94 LATITUDE 17°59.9'N Btm Depth: 3269
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	34.571	2	34.574	2	25.513	25.511	22.861	0.061	0.0	2	0.1	2	0.27	2	0.0	2	3.170	4	1.097	2	209.89	2	292	2	1969.2	2	8.0866	2	2291	2	1.70	-9	-9	-9	-9
135	2	8.6	34.571	2	34.573	2	25.509	25.507	22.862	0.061	0.0	2	0.0	2	0.16	2	0.0	2	2.022	2	1.067	2	210.00	2	295	2	1969.2	2	8.0876	2	-9	5	-9	-9	-9	-9	-9
134	2	24.1	34.554	2	34.556	2	25.334	25.328	22.904	0.076	0.0	2	0.0	2	0.19	2	0.0	2	2.005	2	1.077	2	210.98	2	288	2	1967.8	3	8.0878	2	2311	2	1.70	-9	-9	-9	-9
133	2	48.2	34.518	2	34.527	2	24.776	24.766	23.047	0.073	0.0	2	0.0	2	0.17	2	0.0	2	2.009	2	1.069	2	213.74	2	290	2	1967.2	2	8.0867	2	2296	2	1.80	-9	-9	-9	-9
132	2	74.4	34.362	2	34.367	2	23.157	23.142	23.409	0.076	0.0	2	0.0	2	0.28	2	0.0	2	2.134	2	1.136	2	214.37	6	329	2	1992.0	2	8.0387	2	2284	2	1.70	-9	-9	-9	-9
131	2	97.9	34.156	2	34.168	2	18.556	18.539	24.492	0.076	0.2	2	6.7	2	0.88	2	4.4	2	2.276	6	1.156	6	156.58	2	553	2	2076.6	3	7.8475	2	2291	2	1.00	-9	-9	-9	-9
130	2	123.5	34.235	2	34.241	2	14.818	14.799	25.426	0.040	0.0	2	18.0	2	1.65	2	13.6	2	1.937	2	0.958	2	83.39	2	976	2	2161.2	2	7.6279	2	2266	2	0.30	-9	-9	-9	-9
129	2	150.3	34.453	2	34.481	3	13.604	13.583	25.851	0.032	0.0	2	24.6	2	2.17	2	22.1	2	1.248	2	0.614	2	36.70	2	1338	2	2215.9	2	7.5078	2	2276	2	-0.10	-9	-9	-9	-9
128	2	200.5	34.719	2	-9	5	12.371	12.345	26.304	0.032	-9	9	-9	9	-9	9	-9	9	0.368	2	0.197	2	1.29	2	1607	2	2255.4	2	-9	9	-9	5	-9	-9	-9	-9	-9
127	2	251.7	34.705	2	-9	5	11.469	11.437	26.466	0.035	0.0	2	27.6	2	2.64	2	32.8	2	0.174	2	0.092	2	0.18	2	1682	2	2265.7	2	-9	9	2298	2	-9	-9	-9	-9	-9
126	2	299.7	34.666	2	34.665	2	10.667	10.631	26.582	0.040	0.3	2	25.9	2	2.68	2	36.5	2	0.108	2	0.060	2	0.55	2	1801	2	2277.7	2	-9	9	2304	2	-0.30	-9	-9	-9	-9
125	2	351.2	34.625	2	34.625	2	9.743	9.702	26.709	0.040	0.0	2	27.2	2	2.77	2	43.4	2	0.057	6	0.028	6	0.59	2	1871	2	2286.9	2	7.3794	2	2303	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	399.2	34.592	2	34.592	2	9.055	9.011	26.797	0.038	0.0	2	28.8	2	2.84	2	49.4	2	0.036	2	0.020	2	1.38	2	1912	2	2294.5	2	7.3646	2	2318	2	-0.30	-9	-9	-9	-9
122	2	500.2	34.532	2	34.530	2	7.707	7.657	26.957	0.034	0.0	2	33.4	2	3.00	2	61.7	2	0.032	6	0.007	6	0.83	2	2011	2	2311.9	2	7.3502	2	2320	2	-0.30	-9	-9	-9	-9
121	3	598.7	34.520	2	34.519	2	6.628	6.572	27.099	0.032	0.0	2	37.4	2	3.11	2	72.7	2	0.037	2	0.002	2	1.47	2	2084	3	2327.6	2	-9	9	2326	2	-0.30	-9	-9	-9	-9
120	2	693.5	34.521	2	34.521	2	5.942	5.881	27.189	0.034	0.0	2	40.2	2	3.17	2	78.9	2	0.001	2	-0.002	2	1.47	2	2131	2	2335.3	2	7.3318	2	2338	2	-0.40	-9	-9	-9	-9
119	2	801.6	34.524	2	34.525	2	5.362	5.295	27.263	0.033	0.0	2	42.1	2	3.20	2	88.9	2	0.007	2	-0.002	2	2.62	2	2161	2	2344.7	2	7.3261	2	2345	2	-0.40	-9	-9	-9	-9
118	2	901.6	34.529	2	34.530	2	4.857	4.784	27.326	0.032	0.0	2	43.4	2	3.23	2	98.8	2	0.005	2	-0.002	2	6.34	2	2164	2	2351.7	2	7.3275	2	2354	2	-0.30	-9	-9	-9	-9
117	3	1001.0	34.539	2	34.540	2	4.470	4.390	27.378	0.031	0.0	2	43.7	2	3.23	2	106.1	2	0.022	2	0.000	2	10.60	2	2139	3	2357.7	2	-9	9	2361	6	-0.40	-9	-9	-9	-9
116	2	1100.3	34.555	2	34.555	2	4.089	4.004	27.432	0.027	0.0	2	43.8	2	3.24	2	112.6	2	0.000	2	0.001	2	16.19	2	2106	2	2362.7	2	7.3431	2	2373	2	-9	-9	-9	-9	-9
115	2	1199.8	34.568	2	34.570	2	3.780	3.689	27.475	0.025	0.0	2	43.7	2	3.19	2	118.4	2	-9	9	-9	9	23.31	2	2048	2	2365.8	2	7.3544	2	2377	2	-0.60	-9	-9	-9	-9
114	2	1298.5	34.580	2	34.580	2	3.480	3.383	27.514	0.025	0.0	2	43.2	2	3.11	2	122.8	2	-0.001	2	-0.002	2	32.66	6	1968	2	2366.4	2	7.3718	2	2383	2	-9	-9	-9	-9	-9
113	2	1400.8	34.587	2	34.588	2	3.252	3.150	27.541	0.026	0.0	2	42.8	2	3.10	2	128.0	2	-9	9	-9	9	39.51	2	1916	2	2369.1	2	7.3830	2	2392	2	-0.40	-9	-9	-9	-9
112	2	1487.2	34.597	2	34.598	2	3.041	2.934	27.569	0.024	0.0	2	42.9	2	3.08	2	135.5	2	-9	9	-9	9	47.65	2	1860	2	2368.1	2	7.3982	2	2395	2	-9	-9	-9	-9	-9
111	2	1600.1	34.609	2	34.610	2	2.801	2.687	27.601	0.020	0.0	2	42.3	2	3.02	2	140.4	2	0.006	2	-0.002	2	56.31	2	1740	2	2367.8	2	7.4158	2	2399	2	-0.30	-9	-9	-9	-9
110	2	1800.6	34.627	2	34.628	2	2.469	2.343	27.645	0.023	0.0	2	41.6	2	2.90	2	143.6	2	-9	9	-9	9	71.57	2	1675	2	2366.4	2	7.4471	2	2408	2	-0.20	-9	-9	-9	-9
109	2	1998.9	34.641	2	34.642	2	2.204	2.065	27.679	0.017	0.0	2	40.6	2	2.83	2	149.1	2	-9	9	-9	9	84.16	2	1557	2	2365.3	2	7.4697	2	2417	2	-0.20	-9	-9	-9	-9
108	2	2199.5	34.652	2	34.653	2	1.994	1.841	27.705	0.015	0.0	2	40.0	2	2.77	2	155.0	2	0.033	4	0.068	4	95.74	2	1471	2	2365.3	2	7.4925	2	2424	2	-9	-9	-9	-9	-9
107	2	2399.5	34.660	2	34.661	2	1.873	1.704	27.722	0.012	0.0	2	39.5	2	2.71	2	160.6	2	-9	9	-9	9	103.84	2	-9	9	2364.1	2	7.5073	2	2427	2	-0.10	-9	-9	-9	-9
106	2	2597.8	34.665	2	34.666	2	1.802	1.617	27.733	0.011	0.0	2	39.1	2	2.67	2	156.1	2	-9	9	-9	9	108.51	6	1352	2	2361.5	2	7.5160	2	2423	2	-9	-9	-9	-9	-9
105	2	2798.7	34.668	2	34.668	2	1.738	1.535	27.742	0.011	0.0	2	38.6	2	2.64	2	156.8	2	-0.002	2	-0.002	2	113.57	2	1335	2	2359.2	2	7.5255	2	2435	2	-9	-9	-9	-9	-9
104	2	2999.5	34.671	2	-9	5	1.703	1.482	27.748	0.010	0.0	6	39.6	6	2.70	6	161.3	6	-9	9	-9	9	117.07	2	1397	3	2357.5	2	-9	9	-9	5	-0.10	-9	-9	-9	-9
103	2	3201.6	34.673	2	34.674	2	1.703	1.462	27.750	0.010	0.0	2	38.4	2	2.62	2	163.5	2	0.002	2	-0.002	2	118.93	2	1344	2	2356.4	2	7.5354	2	2435	2	-9	-9	-9	-9	-9
102	2	3200.3	34.673	2	34.674	2	1.702	1.462	27.751	0.010	0.0	2	38.4	2	2.63	2	159.2	2	-9	9	-9	9	119.27	2	1316	2	2356.2	2	7.5355	2	2433	2	-9	-9	-9	-9	-9
101	2	3298.3	34.674	2	34.675	2	1.705	1.454	27.752	0.010	0.0	2	38.1	2	2.61	2	156.5	2	-9	9	-9	9	119.56	2	1328	2	2353.4	2	7.5370	2	2427	2	-0.10	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 183 DATE 4/23/94 LATITUDE 18°30.0'N Btm Depth: 3453
CAST 1 LONGITUDE 110°0.0'W

Sample ID	P**	Pressure db	Salinity CTD	P*	Salinity Bottle	P*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	P*	NO3 µmol/kg	P*	PO4 µmol/kg	P*	Si(OH)4 µmol/kg	P*	CFC-11 pmol/kg	P*	CFC-12 pmol/kg	P*	O2 µmol/kg	P*	fCO2 @20°C µatm	P*	DIC µmol/kg	P*	pH	P*	TAlk µmol/kg	P*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	8.8	34.364	2	34.368	2	25.395	25.393	22.741	0.056	0.0	2	0.1	2	0.14	2	0.0	2	1.933	2	1.063	2	209.39	2	281	2	1947.7	3	8.0968	2	2276	2	-9	-9	-9	0.095	0.022
135	2	24.9	34.548	2	34.551	2	25.200	25.194	22.940	0.063	0.0	2	0.0	2	0.20	2	0.0	2	-9	9	-9	9	211.73	2	-9	9	-9	9	8.0833	2	-9	9	-9	-9	-9	0.089	0.029
134	2	50.5	34.501	2	34.502	2	24.023	24.013	23.260	0.062	0.0	2	0.0	2	0.23	2	0.0	2	2.053	2	1.108	2	215.99	2	306	2	1978.8	2	8.0720	2	2284	2	-9	-9	-9	0.133	0.059
133	2	75.1	34.372	2	34.397	2	22.203	22.189	23.688	0.077	0.0	2	0.0	2	0.29	2	0.1	2	2.171	2	1.164	2	217.11	2	-9	9	-9	9	8.0233	2	-9	9	-9	-9	-9	0.289	0.231
132	2	101.5	34.107	2	34.126	2	17.119	17.102	24.805	0.054	0.1	2	9.3	2	1.09	2	6.3	2	2.247	6	1.140	6	137.89	2	659	2	2096.3	2	7.7905	2	-9	5	-9	-9	-9	0.213	0.226
131	2	123.4	34.415	2	34.448	3	14.333	14.315	25.669	0.040	0.0	2	23.5	2	2.10	2	19.2	2	1.385	2	0.698	2	41.11	2	-9	9	-9	9	7.5324	2	-9	9	-9	-9	-9	0.053	0.090
130	2	150.6	34.675	2	34.676	2	13.218	13.197	26.102	0.031	0.0	2	27.3	2	2.47	2	25.2	2	0.634	2	0.339	2	4.61	2	1546	2	2246.0	2	7.4568	2	2292	2	-9	-9	-9	0.001	0.033
129	2	170.0	34.697	2	34.697	2	12.851	12.828	26.192	0.030	0.0	2	27.6	2	2.53	2	27.1	2	0.508	2	0.292	2	3.31	2	-9	9	-9	9	7.4484	2	-9	9	-9	-9	-9	0.001	0.033
128	2	194.7	34.710	2	34.711	2	12.260	12.235	26.319	0.031	0.0	2	27.6	2	2.57	2	29.5	2	0.348	2	0.193	2	1.28	2	-9	9	-9	9	7.4363	2	-9	9	-9	-9	-9	0.002	0.030
127	2	249.1	34.697	2	34.695	2	11.231	11.200	26.503	0.037	0.2	2	26.5	2	2.63	2	33.7	2	-9	9	-9	9	0.20	2	1719	2	2269.6	2	7.4131	2	2304	2	-9	-9	-9	-9	-9
126	2	299.4	34.671	2	34.670	2	10.611	10.575	26.595	0.040	0.4	2	25.5	2	2.70	2	36.8	2	0.106	2	0.058	2	0.45	2	1798	2	2299.8	3	7.3941	2	2305	2	-9	-9	-9	-9	-9
125	2	349.0	34.625	2	34.625	2	9.749	9.709	26.708	0.040	0.1	2	27.2	2	2.76	2	41.2	2	-9	9	-9	9	0.43	2	-9	9	-9	9	7.3795	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.8	34.593	2	34.595	2	9.021	8.977	26.803	0.035	0.0	2	29.3	2	2.87	2	46.7	2	0.026	2	0.035	2	1.34	6	1920	2	2296.5	2	7.3681	2	2311	2	-9	-9	-9	-9	-9
122	2	498.3	34.537	2	34.537	2	7.700	7.650	26.962	0.033	0.0	2	34.1	2	3.02	2	59.4	2	-9	9	-9	9	1.59	2	2006	2	2311.0	2	7.3522	2	2316	2	-9	-9	-9	-9	-9
121	2	599.2	34.528	2	34.527	2	6.789	6.733	27.083	0.032	0.0	2	37.1	2	3.16	2	70.9	2	0.007	2	0.004	2	0.62	2	2062	2	2325.0	2	7.3414	2	2334	2	-9	-9	-9	-9	-9
120	2	701.6	34.530	2	34.530	2	6.072	6.009	27.180	0.031	0.0	2	39.9	2	3.21	2	80.0	2	-9	9	-9	9	1.34	2	2102	2	2336.4	2	7.3330	2	2335	2	-9	-9	-9	-9	-9
119	2	799.8	34.529	2	34.530	2	5.300	5.232	27.275	0.031	0.0	2	42.9	2	3.28	2	90.3	2	-0.002	2	-0.002	2	2.46	2	2159	2	2348.7	2	7.3267	2	2353	2	-9	-9	-9	-9	-9
118	2	900.8	34.532	2	34.534	2	4.739	4.666	27.342	0.030	0.0	2	43.7	2	3.27	2	99.9	2	-9	9	-9	9	6.50	2	2154	2	2357.6	2	7.3284	2	2362	2	-9	-9	-9	-9	-9
117	2	999.7	34.545	2	34.545	2	4.254	4.176	27.406	0.026	0.0	2	43.7	2	3.28	2	108.6	2	0.010	2	0.016	2	-9	1	2109	3	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1099.6	34.556	2	34.556	2	3.977	3.893	27.444	0.025	0.0	2	44.1	2	3.25	2	116.7	2	-9	9	-9	9	17.71	2	-9	9	-9	9	7.3460	2	-9	9	-9	-9	-9	-9	-9
115	2	1198.4	34.565	2	34.564	2	3.762	3.672	27.474	0.024	0.0	2	43.6	2	3.26	2	123.8	2	-9	9	-9	9	22.01	2	-9	9	-9	9	7.3517	2	-9	9	-9	-9	-9	-9	-9
114	2	1300.4	34.571	2	34.571	2	3.623	3.525	27.493	0.024	0.0	2	43.4	2	3.22	2	127.0	2	-9	9	-9	9	25.66	2	-9	9	-9	9	7.3584	2	-9	9	-9	-9	-9	-9	-9
113	2	1399.7	34.579	2	34.579	2	3.463	3.358	27.515	0.022	0.0	2	43.0	2	3.19	2	125.9	2	-9	9	-9	9	30.46	2	-9	9	-9	9	7.3666	2	-9	9	-9	-9	-9	-9	-9
112	2	1600.1	34.603	2	34.603	2	2.925	2.810	27.586	0.020	0.0	2	42.7	2	3.04	2	133.4	2	-9	9	-9	9	51.72	2	-9	9	-9	9	7.4075	2	-9	9	-9	-9	-9	-9	-9
111	2	1799.7	34.621	2	34.620	2	2.561	2.433	27.633	0.018	0.0	2	41.7	2	3.00	2	144.6	2	-9	9	-9	9	66.49	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1997.0	34.640	2	34.640	2	2.204	2.065	27.678	0.016	0.0	2	40.4	2	2.87	2	153.6	2	-9	9	-9	9	84.20	2	-9	9	-9	9	7.4707	2	-9	9	-9	-9	-9	-9	-9
109	2	2198.8	34.651	2	34.651	2	2.011	1.857	27.704	0.014	0.0	2	39.5	2	2.77	2	155.7	2	-9	9	-9	9	95.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	2398.3	34.659	2	34.659	2	1.871	1.702	27.722	0.012	0.0	2	38.9	2	2.72	2	155.0	2	-9	9	-9	9	105.51	2	-9	9	-9	9	7.5069	2	-9	9	-9	-9	-9	-9	-9
107	2	2598.1	34.663	2	34.663	2	1.797	1.612	27.732	0.018	0.0	2	38.8	2	2.68	2	155.7	2	-9	9	-9	9	108.97	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2799.0	34.667	2	34.666	2	1.751	1.548	27.739	0.018	0.0	2	38.5	2	2.67	2	159.1	2	-9	9	-9	9	112.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	3001.5	34.670	2	34.670	2	1.720	1.498	27.745	0.010	0.0	6	38.2	6	2.66	6	156.5	6	-9	9	-9	9	116.18	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	3199.5	34.673	2	34.673	2	1.706	1.465	27.750	0.010	0.0	2	38.2	2	2.62	2	157.1	2	-9	9	-9	9	117.77	2	-9	9	-9	9	7.5350	2	-9	9	-9	-9	-9	-9	-9
103	2	3398.4	34.674	2	34.675	2	1.711	1.450	27.752	0.010	0.0	2	38.1	2	2.64	2	159.4	2	-9	9	-9	9	120.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3399.1	34.674	2	34.675	2	1.711	1.449	27.752	0.010	0.0	2	38.2	2	2.64	2	162.5	2	-9	9	-9	9	120.64	2	-9	9	-9	9	7.5380	2	-9	9	-9	-9	-9	-9	-9
101	2	3471.4	34.675	2	34.675	2	1.718	1.449	27.753	0.010	0.0	2	37.8	2	2.62	2	161.3	2	-9	9	-9	9	120.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 184 DATE 4/23/94 LATITUDE 19°0.0'N Btm Depth: 3404
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp*	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	34.609	2	34.610	2	24.167	24.165	23.296	0.079	0.0	2	0.1	2	0.21	2	0.2	2	2.115	2	1.135	2	215.02	2	308	2	1988.8	2	8.0637	2	2301	6	1.80	87.7	5.0	-9	-9
135	2	23.4	34.603	2	34.600	2	23.594	23.589	23.462	0.087	0.0	2	0.1	2	0.25	2	0.0	2	2.166	2	1.146	2	218.50	2	-9	9	-9	9	8.0635	2	-9	9	-9	87.2	4.8	-9	-9
134	2	48.8	34.388	2	34.381	2	22.115	22.105	23.724	0.075	0.0	2	0.1	2	0.23	2	0.2	2	2.260	2	1.189	2	222.53	6	-9	9	-9	9	8.0446	2	-9	9	-9	-9	5.3	-9	-9
133	2	75.3	34.097	2	34.127	3	19.185	19.172	24.288	0.101	0.1	2	2.7	2	0.54	2	2.4	2	2.354	2	1.233	2	194.70	2	-9	9	-9	9	7.9359	2	-9	9	-9	92.0	4.5	-9	-9
132	2	100.4	34.413	2	34.417	2	15.303	15.287	25.456	0.045	0.0	2	21.5	2	1.93	2	16.6	2	1.589	2	0.803	2	52.90	2	-9	9	-9	9	7.5818	2	-9	9	-9	-9	-9	-9	-9
131	2	124.0	34.543	2	34.556	2	13.887	13.869	25.861	0.035	0.0	2	24.1	2	2.24	2	23.1	2	1.071	6	0.549	6	21.94	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	2	149.5	34.649	2	34.650	2	13.035	13.015	26.118	0.035	0.0	2	26.0	2	2.42	2	26.6	2	-9	1	-9	1	12.69	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	2	175.2	34.724	2	34.727	2	12.700	12.676	26.243	0.037	0.0	2	25.3	2	2.49	2	28.2	2	0.431	2	0.244	2	1.87	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	2	199.9	34.730	2	34.730	2	12.174	12.148	26.351	0.050	0.0	2	26.4	2	2.53	2	29.7	2	0.306	2	0.171	2	0.60	2	-9	9	-9	9	-9	9	-9	9	-9	53.9	1.5	-9	-9
127	2	226.4	34.743	2	34.744	2	11.944	11.914	26.406	0.054	1.2	2	25.3	2	2.58	2	30.8	2	0.237	2	0.131	2	0.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
126	2	250.1	34.725	2	34.723	2	11.580	11.548	26.461	0.052	1.3	2	24.6	2	2.62	2	33.4	2	0.187	2	0.102	2	0.78	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
125	2	298.5	34.668	2	34.667	2	10.726	10.690	26.573	0.054	0.2	2	25.6	2	2.69	2	38.1	2	0.131	6	0.068	6	0.51	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	351.4	34.635	2	34.635	2	9.906	9.865	26.690	0.041	0.1	2	26.7	2	2.79	2	42.6	2	0.074	2	0.029	2	2.44	2	-9	9	-9	9	7.3808	2	-9	9	-9	-9	-9	-9	-9
122	2	401.2	34.595	2	34.592	2	9.277	9.232	26.764	0.037	0.0	2	28.8	2	2.85	2	46.8	2	0.048	6	0.024	6	0.86	6	-9	9	-9	9	7.3686	2	-9	9	-9	-9	-9	-9	-9
121	2	500.2	34.549	2	34.549	2	7.957	7.906	26.934	0.033	0.0	2	32.3	2	3.02	2	58.8	2	0.020	2	0.008	2	0.88	2	-9	9	-9	9	7.3543	2	-9	9	-9	52.2	-9	-9	-9
120	2	599.3	34.515	2	34.515	2	6.736	6.680	27.080	0.031	0.0	2	36.8	2	3.12	2	71.4	2	0.009	2	0.004	2	1.06	2	-9	9	-9	9	7.3391	2	-9	9	-9	-9	-9	-9	-9
119	2	699.5	34.512	2	34.515	2	5.895	5.833	27.188	0.032	0.0	2	40.0	2	3.19	2	81.1	2	0.002	2	0.002	2	1.51	2	-9	9	-9	9	7.3304	2	-9	9	-9	-9	-9	-9	-9
118	2	801.0	34.520	2	34.521	2	5.299	5.231	27.268	0.033	0.0	2	42.3	2	3.25	2	90.0	2	-9	1	-9	1	3.19	2	-9	9	-9	9	7.3278	2	-9	9	-9	42.5	-9	-9	-9
117	2	899.0	34.528	2	34.528	2	4.816	4.743	27.331	0.031	0.0	2	43.3	2	3.26	2	100.6	2	-0.001	2	0.000	2	6.83	2	-9	9	-9	9	7.3273	2	-9	9	-9	-9	-9	-9	-9
116	2	1001.3	34.537	2	34.538	2	4.383	4.304	27.386	0.028	0.0	2	43.9	2	3.29	2	110.9	2	-0.003	2	0.000	2	11.77	2	-9	9	-9	9	7.3346	2	-9	9	-9	46.8	-9	-9	-9
115	2	1100.8	34.552	2	34.554	2	4.033	3.948	27.436	0.028	0.0	2	43.8	2	3.27	2	117.4	2	-9	9	-9	9	17.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
114	2	1199.6	34.566	2	34.567	2	3.723	3.633	27.478	0.028	0.0	2	43.5	2	3.20	2	121.3	2	-0.004	2	-0.002	2	25.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1299.3	34.578	2	34.578	2	3.423	3.327	27.518	0.024	0.0	2	43.0	2	3.15	2	127.9	2	-9	9	-9	9	34.86	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
112	2	1400.1	34.587	2	34.587	2	3.214	3.112	27.545	0.026	0.0	2	42.5	2	3.08	2	129.9	2	-9	9	-9	9	40.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1599.7	34.607	2	34.607	2	2.804	2.690	27.599	0.020	0.0	2	41.9	2	2.97	2	136.9	2	0.002	2	-0.002	2	54.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1800.1	34.623	2	34.624	2	2.449	2.322	27.644	0.018	0.0	2	41.1	2	2.93	2	146.2	2	-9	9	-9	9	69.61	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	1998.9	34.642	2	34.642	2	2.101	1.963	27.688	0.015	0.0	2	40.1	2	2.82	2	155.2	2	-9	9	-9	9	87.33	2	-9	9	-9	9	-9	9	-9	9	-9	34.4	-9	-9	-9
108	2	2198.0	34.653	2	34.653	2	1.928	1.776	27.711	0.013	0.0	2	39.1	2	2.74	2	158.9	2	-9	9	-9	9	98.36	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2395.0	34.661	2	34.660	2	1.830	1.662	27.726	0.015	0.0	2	38.5	2	2.66	2	157.8	2	-0.006	2	-0.002	2	105.96	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2600.3	34.665	2	34.664	2	1.759	1.574	27.736	0.017	0.0	2	38.0	2	2.64	2	156.7	2	-9	9	-9	9	111.53	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2799.2	34.668	2	34.669	2	1.721	1.518	27.743	0.019	0.0	2	38.2	2	2.61	2	155.8	2	-9	9	-9	9	114.40	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2999.7	34.671	2	34.671	2	1.704	1.482	27.748	0.011	0.0	6	38.0	6	2.61	6	159.7	6	-9	9	-9	9	116.93	2	-9	9	-9	9	-9	9	-9	9	-9	32.0	-9	-9	-9
103	2	3199.8	34.673	2	34.675	2	1.702	1.461	27.751	0.010	0.0	2	38.5	2	2.57	2	153.4	2	-0.005	2	-0.002	2	118.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3199.2	34.673	2	34.673	2	1.701	1.461	27.751	0.011	0.0	2	38.0	2	2.57	2	155.8	2	-9	9	-9	9	119.24	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3412.8	34.674	2	34.674	2	1.716	1.454	27.752	0.011	0.0	2	37.9	2	2.59	2	158.8	2	-0.005	2	0.001	2	119.91	2	-9	9	-9	9	-9	9	-9	9	-9	44.0	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 185 DATE 4/24/94 LATITUDE 19°30.0'N Btm Depth: 3271
CAST 1 LONGITUDE 109°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.3	34.596	2	34.601	2	23.933	23.931	23.356	0.085	0.0	2	0.0	2	0.22	2	0.0	2	-9	9	-9	9	215.31	2	305	2	1988.3	2	8.0640	2	2287	2	-9	-9	-9	-9	-9
135	2	9.2	34.606	2	34.613	2	24.075	24.073	23.322	0.085	0.0	2	0.0	2	0.24	2	0.0	2	-9	9	-9	9	214.99	6	305	2	1987.9	2	8.0656	2	2295	2	-9	-9	6.4	-9	-9
134	2	23.0	34.551	2	34.554	2	23.403	23.398	23.478	0.093	0.0	2	0.0	2	0.23	2	0.0	2	-9	9	-9	9	219.12	2	-9	9	-9	9	8.0652	2	-9	9	-9	82.3	6.5	-9	-9
133	2	49.4	34.459	2	34.460	2	22.077	22.067	23.788	0.095	0.0	2	0.0	2	0.29	2	0.0	2	-9	9	-9	9	222.01	2	324	2	1996.5	2	8.0405	2	2284	2	-9	-9	6.2	-9	-9
132	2	72.9	34.039	2	34.044	2	17.262	17.250	24.718	0.153	0.4	2	7.4	2	0.98	2	4.9	2	-9	9	-9	9	155.41	2	-9	9	-9	9	7.8178	2	-9	9	-9	84.9	5.0	-9	-9
131	2	98.7	34.408	2	34.399	2	14.862	14.847	25.549	0.050	0.0	2	21.8	2	1.96	2	16.4	2	-9	9	-9	9	58.47	2	1097	2	2188.1	2	7.5803	2	2270	2	-9	53.0	-9	-9	-9
130	2	123.5	34.618	2	34.619	2	13.589	13.572	25.981	0.038	0.0	2	26.2	2	2.37	2	24.0	2	-9	9	-9	9	21.11	2	-9	9	-9	9	7.4882	2	-9	9	-9	-9	-9	-9	-9
129	2	147.1	34.739	2	34.739	2	13.095	13.075	26.175	0.037	0.0	2	27.1	2	2.53	2	27.4	2	-9	9	-9	9	4.71	2	1515	2	2250.3	2	7.4569	2	2291	2	-9	52.3	-9	-9	-9
128	2	174.3	34.764	2	34.761	2	12.500	12.477	26.313	0.048	0.1	2	26.8	2	2.56	2	29.3	2	-9	9	-9	9	0.61	2	-9	9	-9	9	7.4437	2	-9	9	-9	-9	-9	-9	-9
127	2	199.5	34.750	2	34.750	2	12.087	12.061	26.383	0.042	0.0	2	27.3	2	2.58	2	30.7	2	-9	9	-9	9	0.85	2	1608	2	2262.0	2	7.4353	2	2296	2	-9	-9	-9	-9	-9
126	2	249.8	34.709	2	34.708	2	11.225	11.193	26.514	0.046	1.0	2	25.5	2	2.62	2	32.9	2	-9	9	-9	9	1.07	2	1714	2	2271.4	2	7.4110	2	2305	2	-9	-9	-9	-9	-9
125	2	299.3	34.650	2	34.650	2	10.342	10.307	26.626	0.040	0.0	2	26.9	2	2.75	2	39.0	2	-9	9	-9	9	0.62	2	1813	2	2281.5	2	7.3902	2	2301	2	-9	56.8	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	346.5	34.611	2	34.611	2	9.527	9.488	26.734	0.039	0.0	2	28.4	2	2.86	2	45.8	2	-9	9	-9	9	1.43	2	-9	9	-9	9	7.3743	2	-9	9	-9	-9	-9	-9	-9
122	2	398.6	34.554	2	34.549	2	8.595	8.552	26.839	0.035	0.0	2	31.1	2	2.91	2	51.6	2	-9	9	-9	9	1.53	2	1950	2	2297.7	2	7.3601	2	2311	2	-9	50.8	-9	-9	-9
121	2	501.2	34.527	2	34.526	2	7.539	7.490	26.977	0.032	0.0	2	34.2	2	3.07	2	61.4	2	-9	9	-9	9	2.19	2	2005	2	2312.8	2	7.3490	2	2321	2	-9	-9	-9	-9	-9
120	2	601.5	34.516	2	34.516	2	6.630	6.574	27.096	0.041	0.0	2	37.3	2	3.13	2	71.0	2	-9	9	-9	9	1.56	2	2101	2	2326.3	2	7.3340	2	2329	2	-9	-9	-9	-9	-9
119	2	698.2	34.513	2	34.513	2	5.884	5.823	27.190	0.037	0.0	2	40.4	2	3.21	2	80.4	2	-9	9	-9	9	1.57	2	2117	2	2337.2	2	7.3287	2	2346	2	-9	-9	-9	-9	-9
118	2	800.7	34.521	2	34.522	2	5.207	5.140	27.279	0.035	0.0	2	42.5	2	3.26	2	94.2	2	-9	9	-9	9	3.47	2	2160	2	2349.1	2	7.3257	2	2351	2	-9	-9	-9	-9	-9
117	2	900.4	34.531	2	34.531	2	4.702	4.629	27.345	0.031	0.0	2	43.4	2	3.28	2	102.2	2	-9	9	-9	9	7.66	2	2133	2	2355.9	2	7.3293	2	2365	2	-9	-9	-9	-9	-9
116	2	1000.2	34.541	2	34.542	2	4.314	4.236	27.396	0.029	0.0	2	43.8	2	3.29	2	107.9	2	-9	9	-9	9	12.49	2	2129	2	2362.6	2	7.3361	2	2373	6	-9	-9	-9	-9	-9
115	2	1098.0	34.553	2	34.554	2	4.020	3.936	27.437	0.029	0.0	2	44.3	2	3.25	2	113.0	2	-9	9	-9	9	17.86	6	-9	9	-9	9	7.3443	2	-9	9	-9	-9	-9	-9	-9
114	2	1200.8	34.565	2	34.567	2	3.723	3.633	27.478	0.027	0.0	2	43.8	2	3.25	2	121.9	2	-9	9	-9	9	24.29	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1298.6	34.575	2	34.575	2	3.470	3.374	27.511	0.026	0.0	2	43.3	2	3.19	2	130.0	2	-9	9	-9	9	30.23	2	-9	9	-9	9	7.3668	2	-9	9	-9	-9	-9	-9	-9
112	2	1400.2	34.589	2	34.589	2	3.190	3.088	27.549	0.024	0.0	2	42.7	2	3.12	2	133.6	2	-9	9	-9	9	39.67	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1600.5	34.608	2	34.610	2	2.778	2.664	27.602	0.020	0.0	2	42.0	2	3.01	2	140.1	2	-9	9	-9	9	55.96	2	-9	9	-9	9	7.4141	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.3	34.625	2	34.626	2	2.425	2.299	27.647	0.018	0.0	2	40.9	2	2.90	2	146.1	2	-9	9	-9	9	71.22	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2000.1	34.640	2	34.641	2	2.148	2.010	27.682	0.016	0.0	2	40.2	2	2.82	2	151.3	2	-9	9	-9	9	83.98	2	-9	9	-9	9	7.4677	2	-9	9	-9	-9	-9	-9	-9
108	2	2198.2	34.653	2	34.653	2	1.928	1.776	27.711	0.012	0.0	2	39.3	2	2.77	2	156.9	2	-9	9	-9	9	97.72	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2401.0	34.660	2	34.661	2	1.816	1.648	27.727	0.011	0.0	2	38.7	2	2.71	2	160.6	2	-9	9	-9	9	105.74	2	-9	9	-9	9	7.5095	2	-9	9	-9	-9	-9	-9	-9
106	2	2600.7	34.664	2	34.664	2	1.765	1.580	27.735	0.011	0.0	2	38.2	2	2.66	2	159.2	2	-9	9	-9	9	109.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2798.8	34.670	2	34.672	2	1.699	1.497	27.746	0.011	0.0	2	38.0	2	2.64	2	157.3	2	-9	9	-9	9	115.62	6	-9	9	-9	9	7.5294	2	-9	9	-9	-9	-9	-9	-9
104	2	2996.8	34.671	2	34.671	2	1.668	1.448	27.750	0.010	0.0	6	38.1	6	2.64	6	158.4	6	-9	9	-9	9	117.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	3	3200.4	34.671	2	-9	5	1.676	1.435	27.751	0.010	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	3199.9	34.671	2	34.672	2	1.675	1.435	27.751	0.010	0.0	2	37.8	2	2.62	2	162.2	2	-9	9	-9	9	117.73	2	-9	9	-9	9	7.5322	2	-9	9	-9	-9	-9	-9	-9
101	2	3281.1	34.671	2	34.671	2	1.682	1.434	27.751	0.011	0.0	2	38.0	2	2.63	2	161.1	2	-9	9	-9	9	117.82	2	-9	9	-9	9	7.5332	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 186 DATE 4/24/94 LATITUDE 20°0.1'N Btm Depth: 2670
CAST 1 LONGITUDE 109°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.7	34.671	2	34.667	2	23.304	23.302	23.597	0.088	0.0	2	0.0	2	0.33	2	0.6	2	2.150	2	1.155	2	217.33	2	318	2	2004.2	2	8.0476	2	2300	2	1.80	-9	-9	-9	-9
135	2	24.9	34.468	2	34.476	2	22.288	22.283	23.734	0.101	0.0	2	0.1	2	0.28	2	0.6	2	2.244	2	1.188	2	223.33	6	334	2	1996.2	2	8.0440	2	2282	2	-9	-9	-9	-9	-9
134	2	49.5	34.456	2	34.467	2	21.457	21.447	23.958	0.131	0.0	2	0.3	2	0.43	2	1.4	2	2.217	2	1.172	2	213.78	2	362	2	2017.8	2	8.0087	2	2288	2	-9	-9	-9	-9	-9
133	2	73.4	34.072	2	34.133	3	16.501	16.490	24.921	0.061	0.2	2	12.3	2	1.34	2	10.0	2	2.207	6	1.114	6	121.13	2	755	2	2120.4	2	7.7345	2	2259	2	-9	-9	-9	-9	-9
132	2	98.9	34.295	2	34.313	2	14.016	14.001	25.642	0.041	0.0	2	21.4	2	1.93	2	18.5	2	1.752	2	0.885	2	66.42	2	1127	2	2185.1	2	7.5789	2	2282	3	-9	-9	-9	-9	-9
131	2	125.7	34.653	2	34.652	2	13.643	13.625	25.997	0.035	0.0	2	26.0	2	2.43	2	27.2	2	0.995	2	0.522	2	22.03	2	1432	2	2237.1	2	7.4861	2	2286	2	-9	-9	-9	-9	-9
130	2	150.6	34.759	2	34.758	2	13.081	13.061	26.194	0.038	0.0	2	26.6	2	2.53	2	27.2	2	0.514	2	0.260	2	0.80	2	1551	2	2252.2	2	7.4562	2	2299	2	-9	-9	-9	-9	-9
129	2	177.5	34.763	2	34.762	2	12.467	12.443	26.320	0.043	0.0	2	27.0	2	2.56	2	29.7	2	0.362	6	0.194	6	0.31	2	1586	2	2256.8	2	7.4462	2	2298	2	-9	-9	-9	-9	-9
128	2	199.0	34.746	2	34.746	2	11.988	11.962	26.399	0.043	0.6	2	26.2	2	2.61	2	31.1	2	0.273	2	0.148	2	0.26	2	1630	2	2261.1	2	7.4356	2	2298	2	-9	-9	-9	-9	-9
127	2	249.4	34.706	2	-9	5	11.238	11.207	26.509	0.044	-9	9	-9	9	-9	9	-9	9	0.188	2	0.106	2	0.12	2	1722	2	2272.1	2	-9	9	2299	2	-9	-9	-9	-9	-9
126	2	297.7	34.647	2	34.645	2	10.291	10.255	26.632	0.042	0.2	2	26.4	2	2.78	2	40.4	2	0.165	3	0.064	3	1.12	2	1833	2	2287.3	2	7.3874	2	2300	2	-9	-9	-9	-9	-9
125	2	347.0	34.613	2	34.613	2	9.660	9.620	26.713	0.037	0.0	2	27.6	2	2.85	2	45.0	2	0.082	2	0.036	2	0.85	2	1885	2	2291.5	2	7.3774	2	2305	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	400.1	34.563	2	34.561	2	8.796	8.753	26.815	0.034	0.0	2	30.2	2	2.92	2	51.9	2	0.039	6	0.020	6	2.20	2	1959	2	2301.6	2	7.3605	2	2310	2	-9	-9	-9	-9	-9
122	2	499.9	34.519	2	34.518	2	7.413	7.364	26.989	0.033	0.0	2	34.0	2	3.07	2	65.1	2	0.018	2	0.013	2	2.31	2	2038	2	2320.7	2	7.3467	2	2322	2	-9	-9	-9	-9	-9
121	2	599.6	34.507	2	34.511	3	6.499	6.444	27.106	0.031	0.0	2	37.8	2	3.17	2	73.9	2	0.008	2	0.006	2	1.74	2	2080	2	2331.4	2	7.3378	2	2332	2	-9	-9	-9	-9	-9
120	2	701.3	34.523	2	34.521	2	5.907	5.845	27.195	0.028	0.0	2	39.8	2	3.23	2	81.2	2	0.014	2	0.002	2	1.59	2	2123	2	2340.4	2	7.3310	2	2346	2	-9	-9	-9	-9	-9
119	2	799.8	34.522	2	34.521	2	5.308	5.240	27.268	0.031	0.0	2	42.0	2	3.28	2	89.2	2	-9	9	-9	9	2.98	2	2161	2	2350.1	2	7.3279	2	2348	2	-9	-9	-9	-9	-9
118	2	901.3	34.532	2	34.531	2	4.765	4.692	27.339	0.030	0.0	2	43.5	2	3.30	2	98.4	2	0.002	2	0.001	2	6.53	2	2164	2	2356.5	3	7.3276	2	2340	2	-9	-9	-9	-9	-9
117	3	997.2	34.541	2	34.540	2	4.444	4.365	27.382	0.028	0.0	2	43.8	2	3.32	2	105.0	2	-9	9	-9	9	10.81	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
116	2	1099.8	34.556	2	34.556	2	3.980	3.897	27.444	0.025	0.0	2	43.7	2	3.29	2	117.1	2	0.004	2	-0.002	2	18.70	2	2081	2	2368.5	2	7.3464	2	2375	6	-9	-9	-9	-9	-9
115	2	1199.8	34.568	2	34.568	2	3.688	3.598	27.483	0.025	0.0	2	43.6	2	3.23	2	122.9	2	-9	9	-9	9	25.56	2	2030	2	2371.7	2	7.3569	2	2380	2	-9	-9	-9	-9	-9
114	2	1300.2	34.578	2	34.577	2	3.452	3.356	27.515	0.024	0.0	2	43.1	2	3.19	2	126.0	2	0.000	2	0.002	2	32.15	2	1977	2	2370.9	2	7.3688	2	2388	2	-9	-9	-9	-9	-9
113	2	1402.4	34.590	2	34.590	2	3.193	3.091	27.549	0.023	0.0	2	44.0	2	3.14	2	132.0	2	-9	9	-9	9	40.63	2	1897	2	2371.6	2	7.3855	2	2395	2	-9	-9	-9	-9	-9
112	2	1498.9	34.601	2	34.599	2	2.952	2.845	27.581	0.021	0.0	2	42.4	2	3.00	2	132.9	2	0.003	2	0.002	2	48.93	2	1836	2	2371.6	2	7.4019	2	2398	2	-9	-9	-9	-9	-9
111	2	1599.9	34.610	2	34.610	2	2.735	2.622	27.608	0.021	0.0	2	41.8	2	2.96	2	138.1	2	-9	9	-9	9	57.22	2	1775	2	2372.4	2	7.4168	2	2407	2	-9	-9	-9	-9	-9
110	2	1693.2	34.618	2	34.620	2	2.567	2.448	27.629	0.019	0.0	2	41.2	2	3.00	2	144.4	2	0.061	4	0.000	2	64.02	2	1723	2	2369.7	2	7.4299	2	2407	2	-9	-9	-9	-9	-9
109	2	1800.2	34.626	2	34.626	2	2.403	2.277	27.650	0.017	0.0	2	40.8	2	2.88	2	149.0	2	-9	9	-9	9	71.19	6	1667	2	2371.2	2	7.4440	2	2415	2	-9	-9	-9	-9	-9
108	2	1901.1	34.633	2	34.633	2	2.270	2.138	27.667	0.017	0.0	2	40.1	2	2.81	2	149.2	2	-9	9	-9	9	77.92	2	-9	9	2370.4	2	7.4567	2	2422	2	-9	-9	-9	-9	-9
107	2	2001.0	34.643	2	34.642	2	2.102	1.964	27.688	0.016	0.0	2	39.9	2	2.76	2	149.8	2	0.002	2	0.000	2	87.22	2	1551	2	2367.3	2	7.4741	2	2425	2	-9	-9	-9	-9	-9
106	2	2099.4	34.648	2	34.649	2	2.011	1.866	27.700	0.015	0.0	2	39.3	2	2.74	2	148.2	2	-9	9	-9	9	92.37	2	1513	2	2365.2	2	7.4849	2	2423	2	-9	-9	-9	-9	-9
105	2	2201.1	34.654	2	34.655	2	1.910	1.757	27.714	0.014	0.0	2	39.3	2	2.71	2	156.3	2	0.004	2	0.000	2	99.75	2	1473	2	2363.5	2	7.4951	2	2420	2	-9	-9	-9	-9	-9
104	2	2299.3	34.659	2	34.661	2	1.824	1.665	27.725	0.012	0.0	2	38.8	2	2.67	2	158.8	2	-9	9	-9	9	104.48	2	1427	2	2360.6	2	7.5084	2	2425	2	-9	-9	-9	-9	-9
103	2	2400.2	34.662	2	34.664	2	1.782	1.614	27.731	0.012	0.0	2	38.3	2	2.63	2	156.8	2	0.000	2	0.000	2	107.51	2	1404	2	2359.2	2	7.5142	2	2429	2	-9	-9	-9	-9	-9
102	2	2398.9	34.662	2	34.662	2	1.781	1.614	27.731	0.012	0.0	6	38.5	6	2.61	6	156.9	6	-9	9	-9	9	107.82	2	1401	2	2360.5	2	7.5142	2	2426	2	-9	-9	-9	-9	-9
101	2	2589.4	34.666	2	34.667	2	1.728	1.544	27.739	0.011	0.0	2	38.1	2	2.57	2	155.3	2	0.002	2	0.000	2	111.54	2	1369	2	2358.3	2	7.5220	2	2424	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 187 DATE 4/24/94 LATITUDE 20°29.9'N Btm Depth: 3138
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	7.8	34.791	2	34.793	2	24.070	24.068	23.463	0.082	0.0	2	0.0	2	0.29	2	0.0	2	-9	9	-9	9	214.28	2	321	2	2001.7	2	8.0591	2	2310	2	-9	-9	-9	-9	-9
135	2	25.0	34.785	2	34.784	2	24.062	24.056	23.462	0.088	0.0	2	0.0	2	0.31	2	0.0	2	-9	9	-9	9	214.77	2	-9	9	-9	9	8.0577	2	-9	9	-9	-9	-9	-9	-9
134	2	48.4	34.611	2	34.621	2	21.359	21.349	24.102	0.202	0.0	2	0.1	2	0.53	2	0.6	2	-9	9	-9	9	214.31	2	374	2	2030.4	3	8.0029	2	2311	2	-9	-9	-9	-9	-9
133	2	74.6	34.584	2	34.592	2	18.291	18.278	24.885	0.054	0.5	2	16.0	2	1.61	2	10.7	2	-9	9	-9	9	82.11	2	-9	9	-9	9	7.7111	2	-9	9	-9	-9	-9	-9	-9
132	2	100.3	34.577	2	34.581	2	14.460	14.445	25.766	0.039	0.0	2	24.6	2	2.24	2	22.2	2	-9	9	-9	9	29.87	2	1326	2	2221.5	2	7.5159	2	2286	2	-9	-9	-9	-9	-9
131	2	123.7	34.659	2	34.658	2	13.809	13.792	25.967	0.033	0.0	2	25.6	2	2.35	2	25.8	2	-9	9	-9	9	19.09	2	-9	9	-9	9	7.4763	2	-9	9	-9	-9	-9	-9	-9
130	2	148.5	34.731	2	34.725	2	13.089	13.069	26.171	0.029	0.0	2	26.5	2	2.46	2	26.7	2	-9	9	-9	9	4.50	2	1571	2	2253.5	2	7.4497	2	2293	2	-9	-9	-9	-9	-9
129	2	173.5	34.729	2	34.728	2	12.576	12.553	26.272	0.030	0.0	2	27.1	2	2.49	2	28.0	2	-9	9	-9	9	3.54	6	-9	9	-9	9	7.4431	2	-9	9	-9	-9	-9	-9	-9
128	2	197.9	34.740	2	34.741	2	12.247	12.220	26.345	0.034	0.0	2	27.1	2	2.52	2	28.7	2	-9	9	-9	9	1.02	2	1621	2	2256.9	2	7.4390	2	2295	2	-9	-9	-9	-9	-9
127	2	248.2	34.715	2	34.717	2	11.442	11.411	26.479	0.038	0.1	2	26.4	2	2.60	2	32.3	2	-9	9	-9	9	0.35	2	1690	2	2265.7	2	7.4192	2	2314	3	-9	-9	-9	-9	-9
126	2	299.8	34.668	2	34.667	2	10.526	10.490	26.608	0.037	0.1	2	25.9	2	2.67	2	37.4	2	-9	9	-9	9	0.85	2	1801	2	2278.4	2	7.3947	2	2318	3	-9	-9	-9	-9	-9
125	2	351.4	34.610	2	34.607	2	9.621	9.581	26.718	0.035	0.0	2	27.7	2	2.78	2	43.5	2	-9	9	-9	9	0.62	2	-9	9	-9	9	7.3753	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	401.3	34.569	2	34.568	2	8.846	8.803	26.812	0.034	0.0	2	29.8	2	2.87	2	49.2	2	-9	9	-9	9	1.97	2	1943	2	2296.1	2	7.3608	2	2318	2	-9	-9	-9	-9	-9
122	2	448.4	34.535	2	34.533	2	8.140	8.094	26.894	0.034	0.0	2	32.1	2	2.93	2	58.2	2	-9	9	-9	9	1.41	2	-9	9	-9	9	7.3549	2	-9	9	-9	-9	-9	-9	-9
121	2	501.2	34.526	2	34.524	2	7.576	7.526	26.971	0.033	0.0	2	33.5	2	3.02	2	64.4	2	-9	9	-9	9	0.99	2	2022	2	2311.9	2	7.3484	2	2314	2	-9	-9	-9	-9	-9
120	2	599.7	34.500	2	34.499	2	6.488	6.433	27.102	0.031	0.0	2	37.7	2	3.10	2	77.7	2	-9	9	-9	9	1.65	2	2095	2	2325.9	2	7.3357	2	2328	2	-9	-9	-9	-9	-9
119	2	699.1	34.502	2	34.501	2	5.768	5.707	27.196	0.030	0.0	2	40.2	2	3.16	2	86.1	2	-9	9	-9	9	2.89	2	2149	2	2337.4	2	7.3301	2	2339	2	-9	-9	-9	-9	-9
118	2	801.1	34.512	2	34.513	2	5.171	5.104	27.277	0.031	0.0	2	42.2	2	3.20	2	92.8	2	-9	9	-9	9	4.38	2	2144	2	2345.6	2	7.3281	2	2348	2	-9	-9	-9	-9	-9
117	2	902.2	34.529	2	34.527	2	4.695	4.623	27.344	0.029	0.0	2	44.3	2	3.23	2	101.9	2	-9	9	-9	9	7.72	2	2115	2	2358.7	2	-9	9	2360	2	-9	-9	-9	-9	-9
116	2	1001.3	34.545	2	34.544	2	4.288	4.210	27.402	0.028	0.0	2	43.5	2	3.24	2	111.7	2	-9	9	-9	9	12.12	2	2094	2	2362.4	2	7.3354	2	2372	6	-9	-9	-9	-9	-9
115	2	1100.2	34.556	2	34.555	2	3.992	3.908	27.443	0.026	0.0	2	43.6	2	3.21	2	118.6	2	-9	9	-9	9	17.60	6	-9	9	-9	9	7.3440	2	-9	9	-9	-9	-9	-9	-9
114	2	1198.9	34.566	2	34.565	2	3.743	3.652	27.476	0.024	0.0	2	43.4	2	3.19	2	122.6	2	-9	9	-9	9	23.43	2	-9	9	-9	9	7.3546	2	-9	9	-9	-9	-9	-9	-9
113	2	1300.3	34.580	2	34.579	2	3.439	3.343	27.517	0.023	0.0	2	43.0	2	3.09	2	127.8	2	-9	9	-9	9	32.36	2	-9	9	-9	9	7.3703	2	-9	9	-9	-9	-9	-9	-9
112	2	1401.4	34.590	2	34.589	2	3.186	3.084	27.550	0.021	0.0	2	42.6	2	3.02	2	130.3	2	-9	9	-9	9	41.25	2	-9	9	-9	9	7.3878	2	-9	9	-9	-9	-9	-9	-9
111	2	1502.1	34.598	2	34.597	2	3.012	2.904	27.573	0.022	0.0	2	42.3	2	3.03	2	134.6	2	-9	9	-9	9	46.97	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
110	2	1602.0	34.605	2	34.604	2	2.863	2.748	27.592	0.021	0.0	2	42.2	2	3.01	2	139.4	2	-9	9	-9	9	-9	1	-9	9	-9	9	7.4085	2	-9	9	-9	-9	-9	-9	-9
109	2	1799.7	34.624	2	34.623	2	2.480	2.353	27.641	0.018	0.0	2	40.8	2	2.91	2	149.4	2	-9	9	-9	9	67.58	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
108	2	1998.6	34.640	2	34.639	2	2.139	2.000	27.684	0.015	0.0	2	39.8	2	2.78	2	154.7	2	-9	9	-9	9	84.34	2	-9	9	-9	9	7.4704	2	-9	9	-9	-9	-9	-9	-9
107	2	2198.3	34.652	2	34.651	2	1.938	1.785	27.710	0.013	0.0	2	38.9	2	2.70	2	154.8	2	-9	9	-9	9	97.08	2	-9	9	-9	9	7.4933	2	-9	9	-9	-9	-9	-9	-9
106	3	2399.1	34.660	2	-9	5	1.823	1.654	27.726	0.011	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2600.4	34.664	2	34.663	2	1.767	1.582	27.735	0.010	0.0	2	38.2	2	2.61	2	155.6	2	-9	9	-9	9	109.92	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2800.7	34.667	2	34.667	2	1.729	1.526	27.741	0.010	0.0	2	38.0	2	2.61	2	159.4	2	-9	9	-9	9	112.81	2	-9	9	-9	9	7.5243	2	-9	9	-9	-9	-9	-9	-9
103	2	2996.0	34.668	2	34.668	2	1.727	1.506	27.743	0.011	0.0	2	38.0	2	2.62	2	163.7	2	-9	9	-9	9	113.24	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2997.6	34.668	2	34.667	2	1.727	1.506	27.743	0.010	0.0	6	38.0	6	2.61	6	159.6	6	-9	9	-9	9	113.69	2	-9	9	-9	9	7.5258	2	-9	9	-9	-9	-9	-9	-9
101	2	3134.2	34.669	2	34.668	2	1.723	1.488	27.745	0.010	0.0	2	38.1	2	2.60	2	162.7	2	-9	9	-9	9	114.10	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 188 DATE 4/24/94 LATITUDE 21°0.0'N Btm Depth: 3251
CAST 3 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
336	2	8.8	34.463	2	34.464	2	22.249	22.247	23.740	0.068	0.0	2	0.1	2	0.30	2	1.2	2	2.255	6	1.204	6	220.88	2	333	2	2000.0	2	8.0402	2	2297	6	1.80	99.5	-9	0.093	0.021
335	2	24.4	34.442	2	34.443	2	22.112	22.107	23.764	0.079	0.0	2	0.1	2	0.27	2	1.1	2	-9	1	-9	1	221.25	2	-9	9	-9	9	8.0346	2	-9	9	-9	88.6	6.6	0.097	0.037
334	2	49.7	34.381	2	34.388	2	21.487	21.477	23.892	0.098	0.0	2	0.0	2	0.29	2	1.1	2	2.328	2	1.235	2	225.53	2	-9	9	-9	9	8.0343	2	-9	9	-9	97.5	6.4	0.132	0.057
333	2	74.9	34.361	2	34.378	2	19.192	19.178	24.488	0.100	0.4	2	4.0	2	0.78	2	5.1	2	2.285	2	1.188	2	183.96	2	-9	9	-9	9	7.9089	2	-9	9	-9	-9	2.3	0.577	0.445
332	2	100.3	34.376	2	34.364	2	15.957	15.941	25.281	0.047	0.1	2	17.1	2	1.66	2	14.6	2	1.933	2	0.978	2	88.32	2	-9	9	-9	9	7.6657	2	-9	9	-9	76.3	-9	0.174	0.216
331	2	123.4	34.606	2	34.608	2	13.969	13.951	25.893	0.037	0.0	2	25.1	2	2.26	2	25.9	2	1.158	6	0.586	6	27.36	6	-9	9	-9	9	7.4969	2	-9	9	-9	-9	-9	0.023	0.064
330	2	150.0	34.701	2	34.702	2	13.135	13.114	26.139	0.033	0.0	2	26.7	2	2.44	2	28.6	2	0.735	2	0.372	2	9.77	2	-9	9	-9	9	7.4586	2	-9	9	-9	59.5	-9	0.002	0.040
329	2	174.1	34.716	2	34.714	2	12.587	12.563	26.259	0.032	0.0	2	27.5	2	2.49	2	30.1	2	0.510	2	0.275	2	4.23	2	-9	9	-9	9	7.4419	2	-9	9	-9	-9	-9	0.001	0.031
328	2	197.8	34.727	2	34.725	2	12.166	12.140	26.350	0.033	0.0	2	27.4	2	2.55	2	32.2	2	0.383	2	0.204	2	2.02	2	-9	9	-9	9	7.4329	2	-9	9	-9	-9	2.3	0.002	0.035
327	2	250.7	34.722	2	34.725	2	11.437	11.405	26.485	0.047	1.4	2	24.8	2	2.57	2	33.4	2	0.182	2	0.102	2	0.19	2	-9	9	-9	9	7.4205	2	-9	9	-9	-9	-9	-9	-9
326	2	299.8	34.672	2	34.670	2	10.704	10.668	26.580	0.041	0.1	2	26.0	2	2.60	2	37.6	2	0.158	2	0.083	2	0.04	2	-9	9	-9	9	7.3962	2	-9	9	-9	53.7	-9	-9	-9
325	2	350.3	34.623	2	34.620	2	9.830	9.790	26.693	0.039	0.0	2	27.1	2	2.72	2	42.7	2	0.086	6	0.043	6	0.15	2	-9	9	-9	9	7.3797	2	-9	9	-9	-9	-9	-9	-9
324	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
323	2	400.8	34.573	2	34.572	2	8.954	8.911	26.798	0.035	0.0	2	29.7	2	2.82	2	50.1	2	0.064	2	0.026	2	0.94	2	-9	9	-9	9	7.3650	2	-9	9	-9	45.1	-9	-9	-9
322	2	500.3	34.517	2	34.516	2	7.537	7.487	26.969	0.031	0.0	2	34.0	2	2.99	2	64.3	2	0.046	6	0.015	6	1.09	2	-9	9	-9	9	7.3467	2	-9	9	-9	42.9	-9	-9	-9
321	2	599.8	34.507	2	34.505	2	6.795	6.739	27.066	0.030	0.0	2	36.5	2	2.97	2	72.0	2	0.009	2	0.002	2	1.19	2	-9	9	-9	9	7.3392	2	-9	9	-9	-9	-9	-9	-9
320	2	697.8	34.501	2	34.499	2	6.010	5.948	27.165	0.030	0.0	2	39.4	2	3.11	2	80.5	2	0.008	2	0.001	2	1.84	2	-9	9	-9	9	7.3318	2	-9	9	-9	-9	-9	-9	-9
319	2	800.4	34.504	2	34.503	2	5.369	5.301	27.247	0.030	0.0	2	41.5	2	3.14	2	88.2	2	0.004	2	-0.001	2	3.91	2	-9	9	-9	9	7.3274	2	-9	9	-9	-9	-9	-9	-9
318	2	902.1	34.517	2	34.517	2	4.866	4.793	27.316	0.028	0.0	2	42.8	2	3.09	2	97.5	2	0.022	2	-0.001	2	6.42	2	-9	9	-9	9	7.3282	2	-9	9	-9	-9	-9	-9	-9
317	2	1001.4	34.530	2	34.529	2	4.433	4.354	27.375	0.025	0.0	2	43.4	2	3.15	2	107.3	2	0.014	2	0.001	2	10.89	6	-9	9	-9	9	7.3341	2	-9	9	-9	39.8	-9	-9	-9
316	2	1101.8	34.549	2	34.548	2	4.114	4.029	27.424	0.026	0.0	2	43.4	2	3.17	2	115.6	2	-9	9	-9	9	15.07	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
315	2	1201.5	34.564	2	34.563	2	3.739	3.648	27.475	0.025	0.0	2	42.9	2	3.04	2	118.5	2	0.007	2	0.000	2	22.64	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
314	2	1300.0	34.576	2	34.574	2	3.467	3.371	27.511	0.024	0.0	2	42.8	2	2.98	2	123.4	2	-9	9	-9	9	29.65	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
313	2	1399.3	34.588	2	34.587	2	3.259	3.157	27.541	0.024	0.0	2	42.5	2	3.01	2	126.8	2	0.015	2	-0.002	2	36.14	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
312	2	1499.6	34.597	2	34.596	2	3.060	2.952	27.568	0.024	0.0	2	41.8	2	2.98	2	133.1	2	-9	9	-9	9	41.41	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
311	2	1600.2	34.606	2	34.605	2	2.869	2.754	27.593	0.021	0.0	2	41.7	2	2.95	2	138.8	2	-9	9	-9	9	50.66	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
310	2	1799.6	34.627	2	34.626	2	2.446	2.320	27.646	0.019	0.0	2	40.3	2	2.82	2	145.1	2	0.025	4	0.000	2	69.44	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
309	2	1998.4	34.640	2	34.639	2	2.174	2.035	27.681	0.016	0.0	2	39.7	2	2.71	2	147.4	2	-9	9	-9	9	82.56	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
308	2	2200.5	34.651	2	34.650	2	1.970	1.817	27.706	0.014	0.0	2	38.9	2	2.64	2	148.6	2	-9	9	-9	9	94.17	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
307	2	2398.2	34.659	2	34.659	2	1.842	1.674	27.724	0.012	0.0	2	38.4	2	2.61	2	153.4	2	0.032	4	-0.001	2	102.33	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
306	2	2601.0	34.664	2	34.663	2	1.754	1.569	27.736	0.010	0.0	2	38.2	2	2.58	2	156.4	2	-9	9	-9	9	109.79	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
305	2	2796.5	34.669	2	34.668	2	1.690	1.488	27.745	0.010	0.0	2	37.6	2	2.55	2	158.6	2	-9	9	-9	9	114.52	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
304	2	3000.0	34.670	2	34.669	2	1.673	1.452	27.749	0.010	0.0	6	37.6	6	2.52	6	158.3	6	-9	9	-9	9	115.45	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
303	2	3149.4	34.671	2	34.672	2	1.675	1.440	27.751	0.010	0.0	2	38.7	2	2.51	2	156.6	2	0.005	2	0.002	2	115.77	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
302	2	3148.6	34.671	2	34.670	2	1.675	1.440	27.751	0.010	0.0	2	37.5	2	2.52	2	157.0	2	-9	9	-9	9	115.99	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
301	2	3239.3	34.671	2	34.671	2	1.681	1.437	27.751	0.013	0.0	2	37.7	2	2.53	2	159.2	2	0.048	4	0.003	2	116.23	2	-9	9	-9	9	-9	9	-9	9	-9	38.8	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 189 DATE 4/24/94 LATITUDE 21°29.9'N Btm Depth: 3209
CAST 1 LONGITUDE 110°0.1'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	34.384	2	34.386	2	21.401	21.399	23.917	0.076	0.0	2	0.1	2	0.32	2	1.2	2	-9	9	-9	9	224.28	2	345	2	2004.5	2	8.0244	2	2281	6	-9	94.7	-9	-9	-9
135	2	23.5	34.369	2	34.373	2	21.340	21.336	23.922	0.083	0.0	2	0.0	2	0.30	2	1.4	2	-9	9	-9	9	224.79	2	-9	9	-9	9	8.0216	2	-9	9	-9	-9	-9	-9	-9
134	2	48.0	34.198	2	34.201	2	19.746	19.738	24.218	0.087	0.0	2	0.0	2	0.34	2	1.6	2	-9	9	-9	9	234.10	2	362	2	2007.1	2	8.0053	2	2275	2	-9	82.6	-9	-9	-9
133	2	75.4	34.145	2	34.155	2	18.564	18.551	24.481	0.111	0.0	2	0.0	2	0.39	2	2.0	2	-9	9	-9	9	229.15	2	-9	9	-9	9	7.9795	2	-9	9	-9	74.1	-9	-9	-9
132	2	98.3	34.217	2	34.219	2	15.381	15.366	25.288	0.053	0.1	2	17.9	2	1.68	2	13.8	2	-9	9	-9	9	87.05	2	947	2	2155.5	2	7.6467	2	2259	2	-9	-9	-9	-9	-9
131	2	123.5	34.460	2	34.458	2	13.855	13.837	25.804	0.037	0.0	2	24.4	2	2.12	2	21.5	2	-9	9	-9	9	39.99	2	-9	9	-9	9	7.5292	2	-9	9	-9	56.8	-9	-9	-9
130	2	149.3	34.667	2	34.658	2	13.310	13.289	26.077	0.032	0.0	2	26.6	2	2.40	2	24.7	2	-9	9	-9	9	14.67	2	1426	2	2234.7	2	7.4796	2	2286	2	-9	-9	-9	-9	-9
129	2	174.4	34.687	2	34.688	2	12.607	12.583	26.233	0.030	0.0	2	27.5	2	2.50	2	27.7	2	-9	9	-9	9	10.40	2	-9	9	-9	9	7.4596	2	-9	9	-9	-9	-9	-9	-9
128	2	198.3	34.661	2	34.662	2	11.816	11.790	26.366	0.030	0.0	2	27.8	2	2.54	2	30.3	2	-9	9	-9	9	10.75	2	1557	2	2252.9	2	7.4441	2	2294	2	-9	55.2	-9	-9	-9
127	2	250.7	34.630	2	34.630	2	10.800	10.769	26.529	0.031	0.0	2	27.4	2	2.68	2	34.8	2	-9	9	-9	9	6.52	2	-9	9	2269.9	2	-9	1	2305	2	-9	-9	-9	-9	-9
126	2	300.4	34.645	2	34.638	2	10.223	10.188	26.643	0.031	0.1	2	26.6	2	2.79	2	40.9	2	-9	9	-9	9	1.71	2	1803	2	2283.2	2	-9	9	-9	5	-9	55.0	-9	-9	-9
125	2	349.6	34.611	2	34.603	2	9.614	9.574	26.720	0.038	0.0	2	28.6	2	2.89	2	46.9	2	-9	9	-9	9	1.38	6	-9	9	-9	9	7.3742	2	-9	9	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	3	398.3	34.562	2	34.560	2	8.865	8.822	26.804	0.031	0.0	2	30.7	2	2.94	2	53.4	2	-9	9	-9	9	2.21	2	1917	2	2297.5	2	-9	9	2308	2	-9	-9	-9	-9	-9
122	2	498.7	34.494	2	34.493	2	7.808	7.758	26.912	0.031	0.0	2	34.1	2	3.04	2	58.5	2	-9	9	-9	9	3.07	2	2004	2	2305.9	2	7.3490	2	2319	2	-9	-9	-9	-9	-9
121	2	601.0	34.483	2	34.484	2	6.764	6.707	27.052	0.027	0.0	2	37.2	2	3.16	2	70.4	2	-9	9	-9	9	2.67	2	2072	2	2321.7	2	7.3375	2	2345	3	-9	-9	-9	-9	-9
120	2	700.6	34.490	2	34.490	2	6.021	5.959	27.155	0.028	0.0	2	40.1	2	3.24	2	80.7	2	-9	9	-9	9	2.81	2	2080	2	2332.5	2	7.3330	2	2346	2	-9	-9	-9	-9	-9
119	2	797.6	34.496	2	34.495	2	5.392	5.325	27.237	0.027	0.0	2	41.9	2	3.27	2	91.1	2	-9	9	-9	9	5.13	2	2118	2	2343.9	2	7.3292	2	2356	2	-9	-9	-9	-9	-9
118	2	899.9	34.510	2	34.510	2	4.907	4.833	27.306	0.027	0.0	2	42.9	2	3.29	2	99.8	2	-9	9	-9	9	7.10	2	2134	2	2353.0	2	7.3285	2	2359	2	-9	-9	-9	-9	-9
117	2	1000.2	34.532	2	34.531	2	4.531	4.452	27.366	0.025	0.0	2	43.6	2	3.32	2	105.9	2	-9	9	-9	9	9.79	2	2129	2	2361.9	2	7.3295	2	2370	6	-9	-9	-9	-9	-9
116	2	1099.7	34.546	2	34.546	2	4.139	4.054	27.420	0.026	0.0	2	43.8	2	3.31	2	111.7	2	-9	9	-9	9	15.25	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
115	2	1198.7	34.561	2	34.560	2	3.780	3.689	27.469	0.024	0.0	2	43.7	2	3.26	2	120.9	2	-9	9	-9	9	22.57	6	-9	9	-9	9	7.3509	2	-9	9	-9	-9	-9	-9	-9
114	2	1296.3	34.574	2	34.573	2	3.477	3.381	27.509	0.024	0.0	2	44.1	2	3.24	2	128.6	2	-9	9	-9	9	29.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
113	2	1399.6	34.586	2	34.586	2	3.200	3.098	27.546	0.021	0.0	2	43.0	2	3.12	2	130.6	2	-9	9	-9	9	37.87	2	-9	9	-9	9	7.3802	2	-9	9	-9	-9	-9	-9	-9
112	2	1499.9	34.598	2	34.597	2	3.009	2.901	27.573	0.021	0.0	2	42.5	2	3.08	2	137.7	2	-9	9	-9	9	45.09	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1600.3	34.606	2	34.605	2	2.841	2.727	27.595	0.018	0.0	2	42.1	2	3.04	2	142.4	2	-9	9	-9	9	51.57	2	-9	9	-9	9	7.4067	2	-9	9	-9	-9	-9	-9	-9
110	2	1799.7	34.623	2	34.621	2	2.480	2.353	27.641	0.017	0.0	2	41.4	2	2.91	2	147.6	2	-9	9	-9	9	67.39	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
109	2	2000.1	34.640	2	34.639	2	2.183	2.044	27.680	0.017	0.0	2	40.2	2	2.83	2	150.5	2	-9	9	-9	9	82.34	2	-9	9	-9	9	7.4648	2	-9	9	-9	-9	-9	-9	-9
108	2	2197.8	34.652	2	34.650	2	1.975	1.822	27.707	0.014	0.0	2	40.0	2	2.74	2	152.9	2	-9	9	-9	9	93.71	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
107	2	2400.2	34.659	2	34.658	2	1.849	1.681	27.723	0.012	0.0	2	39.1	2	2.72	2	157.7	2	-9	9	-9	9	101.65	2	-9	9	-9	9	7.5025	2	-9	9	-9	-9	-9	-9	-9
106	2	2600.0	34.664	2	34.663	2	1.769	1.584	27.735	0.011	0.0	2	38.8	2	2.69	2	161.4	2	-9	9	-9	9	107.82	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	2796.5	34.668	2	34.668	2	1.705	1.503	27.744	0.010	0.0	2	38.6	2	2.65	2	163.9	2	-9	9	-9	9	112.91	6	-9	9	-9	9	7.5240	2	-9	9	-9	-9	-9	-9	-9
104	2	3001.0	34.671	2	34.670	2	1.669	1.449	27.750	0.010	0.0	6	38.3	6	2.62	6	161.6	6	-9	9	-9	9	114.98	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	3097.2	34.671	2	34.672	2	1.668	1.438	27.751	0.011	0.0	2	38.4	2	2.64	2	167.8	2	-9	9	-9	9	114.88	2	-9	9	-9	9	7.5289	2	-9	9	-9	-9	-9	-9	-9
102	2	3099.1	34.671	2	34.671	2	1.668	1.438	27.751	0.011	0.0	2	38.3	2	2.62	2	163.2	2	-9	9	-9	9	115.19	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	3220.4	34.673	2	34.671	2	1.661	1.420	27.753	0.013	0.0	2	38.2	2	2.62	2	164.2	2	-9	9	-9	9	115.60	2	-9	9	-9	9	7.5296	2	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 190 DATE 4/25/94 LATITUDE 21°59.9'N Btm Depth: 3165
CAST 1 LONGITUDE 110°0.0'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	2	9.6	34.315	2	34.316	2	20.714	20.713	24.050	0.102	0.0	2	0.1	2	0.32	2	1.3	2	2.408	2	1.267	2	227.12	2	358	2	2006.1	2	8.0163	2	2278	6	1.80	-9	-9	-9	-9
135	2	22.9	34.309	2	34.318	2	20.685	20.681	24.054	0.106	0.0	2	0.0	2	0.29	2	1.2	2	2.395	2	1.255	2	226.65	2	358	2	2009.3	2	8.0177	2	2277	3	1.80	57.0	-9	-9	-9
134	2	50.5	34.093	2	34.098	2	18.842	18.833	24.370	0.227	0.0	2	0.0	2	0.44	2	3.5	2	2.603	2	1.362	2	239.85	2	393	2	2021.6	2	7.9734	2	2265	2	1.60	-9	-9	-9	-9
133	2	74.6	34.128	2	34.123	2	18.263	18.250	24.543	0.112	0.0	2	0.2	2	0.53	2	5.4	2	2.597	6	1.326	6	233.75	2	430	2	2036.9	2	7.9428	2	2270	2	1.40	72.1	-9	-9	-9
132	2	99.3	34.313	2	34.623	4	15.277	15.262	25.385	0.051	0.0	2	19.2	2	1.81	2	17.0	2	1.893	2	0.946	2	75.77	2	989	2	2170.7	2	7.6229	2	2268	2	0.20	-9	-9	-9	-9
131	2	125.4	34.565	2	34.564	2	13.607	13.590	25.936	0.036	0.0	2	25.7	2	2.34	2	26.1	2	1.167	2	0.581	2	29.57	2	1361	2	2227.1	2	7.4995	2	2286	2	-9	88.7	-9	-9	-9
130	2	149.5	34.532	2	34.531	2	12.454	12.434	26.142	0.032	0.0	2	26.1	2	2.38	2	27.9	2	0.970	2	0.486	2	32.71	2	1421	2	2230.6	2	7.4857	2	2281	2	-0.10	-9	-9	-9	-9
129	2	172.8	34.676	2	34.676	2	12.016	11.993	26.339	0.031	0.0	2	27.6	2	2.59	2	31.7	2	0.484	6	0.252	6	8.56	2	1587	2	2255.8	2	7.4408	2	2290	2	-9	-9	-9	-9	-9
128	2	199.1	34.688	2	34.686	2	11.646	11.620	26.418	0.029	0.0	2	27.5	2	2.64	2	33.6	2	0.324	2	0.171	2	4.72	2	1649	2	2262.4	2	7.4259	2	2298	2	-0.20	57.7	-9	-9	-9
127	2	250.4	34.644	2	34.651	2	10.844	10.813	26.532	0.030	0.0	2	27.0	2	2.72	2	37.4	2	0.202	2	0.109	2	3.50	2	1745	2	2270.9	2	7.4050	2	2298	2	-9	-9	-9	-9	-9
126	2	301.2	34.588	2	34.586	2	10.020	9.985	26.633	0.029	0.0	2	27.8	2	2.76	2	41.8	2	0.142	2	0.071	2	-9	1	1816	2	2278.6	2	7.3891	2	2296	2	-0.30	-9	-9	-9	-9
125	2	349.9	34.553	2	34.553	2	9.397	9.358	26.710	0.029	0.0	2	29.1	2	2.83	2	45.5	2	0.091	6	0.045	6	5.13	2	1875	2	2285.2	2	7.3753	2	2292	3	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	398.8	34.518	2	34.519	2	8.529	8.487	26.821	0.030	0.0	2	31.3	2	2.93	2	52.0	2	0.046	2	0.024	2	5.44	2	1953	2	2294.8	2	7.3589	2	2302	2	-0.30	-9	-9	-9	-9
122	2	500.0	34.491	2	34.490	2	7.355	7.306	26.975	0.029	0.0	2	35.3	2	3.07	2	64.3	2	0.015	2	-0.002	2	-9	1	2036	2	2312.1	2	7.3445	2	2320	2	-0.30	31.5	-9	-9	-9
121	2	598.2	34.488	2	34.487	2	6.539	6.484	27.085	0.029	0.0	2	37.9	2	3.14	2	76.5	2	0.031	2	0.004	2	4.19	6	2090	2	2325.1	2	7.3366	2	2329	2	-0.40	-9	-9	-9	-9
120	2	700.5	34.488	2	34.487	2	5.842	5.781	27.176	0.028	0.0	2	40.3	2	3.23	2	86.6	2	0.010	2	0.002	2	3.45	2	2123	2	2335.1	2	7.3309	2	2330	2	-0.40	-9	-9	-9	-9
119	2	804.7	34.501	2	34.502	2	5.222	5.154	27.262	0.028	0.0	2	42.1	2	3.27	2	96.1	2	0.005	2	-0.002	2	5.82	2	2142	2	2345.2	2	7.3279	2	2347	2	-0.40	-9	-9	-9	-9
118	2	895.5	34.518	2	34.517	2	4.824	4.751	27.321	0.028	0.0	2	42.8	2	3.28	2	102.0	2	0.009	2	-0.002	2	7.37	2	2149	2	2354.9	2	7.3291	2	2352	2	-0.40	-9	-9	-9	-9
117	2	997.2	34.534	2	34.535	2	4.425	4.346	27.379	0.027	0.0	2	43.4	2	3.30	2	108.9	2	0.002	2	-0.001	2	11.94	2	2133	2	2362.4	3	7.3331	2	2368	6	-0.40	40.8	-9	-9	-9
116	2	1102.6	34.551	2	34.550	2	4.085	3.999	27.429	0.030	0.0	2	43.2	2	3.31	2	119.4	2	-9	1	-9	1	16.55	2	2104	2	2367.6	3	7.3420	2	2373	2	-9	-9	-9	-9	-9
115	2	1198.0	34.558	2	34.557	2	3.818	3.727	27.462	0.027	0.0	2	43.5	2	3.27	2	125.0	2	0.003	2	-0.002	2	22.17	2	-9	9	2370.3	3	7.3502	2	2384	2	-0.40	-9	-9	-9	-9
114	2	1399.5	34.592	2	34.592	2	3.168	3.067	27.554	0.024	0.0	2	42.2	2	3.17	2	140.9	2	-9	1	-9	1	39.50	2	1910	2	2376.0	3	7.3831	2	2398	2	-0.40	-9	-9	-9	-9
113	2	1498.9	34.597	2	-9	5	3.074	2.965	27.567	0.028	0.0	2	43.5	2	3.34	2	140.1	2	0.006	2	0.000	2	43.15	2	-9	9	2375.1	3	-9	9	2406	2	-9	-9	-9	-9	-9
112	2	1573.7	34.603	2	34.603	2	2.931	2.817	27.585	0.024	0.0	2	42.6	2	3.12	2	138.8	2	-9	1	-9	1	42.38	2	1848	2	2373.5	3	7.4007	2	2408	2	-0.30	-9	-9	-9	-9
111	2	1615.6	34.608	2	-9	5	2.800	2.685	27.601	0.022	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	-9	-9
110	2	1799.9	34.625	2	34.314	4	2.482	2.356	27.643	0.019	0.0	2	41.3	2	2.99	2	147.6	2	0.011	2	0.002	2	67.97	2	1693	2	2369.2	3	7.4393	2	2411	2	-0.20	-9	-9	-9	-9
109	2	2000.7	34.640	2	34.640	2	2.184	2.045	27.680	0.018	0.0	2	40.5	2	2.89	2	151.9	2	-9	9	-9	9	82.22	2	1592	2	2367.7	3	7.4654	2	2421	2	-0.20	-9	-9	-9	-9
108	3	2200.1	34.654	2	34.654	2	1.931	1.779	27.712	0.016	0.0	2	39.1	2	2.77	2	156.1	2	-9	1	-9	1	95.52	2	1501	2	2366.9	3	-9	9	2414	2	-9	-9	-9	-9	-9
107	2	2400.5	34.658	2	34.657	2	1.889	1.720	27.719	0.017	0.0	2	39.2	2	2.74	2	154.5	2	-9	9	-9	9	99.01	2	1473	2	2365.9	3	7.4969	2	2414	2	-0.20	-9	-9	-9	-9
106	2	2599.8	34.661	2	34.660	2	1.856	1.669	27.725	0.015	0.0	2	39.2	2	2.74	2	155.4	2	-9	9	-9	9	101.01	2	1448	2	2362.5	3	7.5028	2	2427	2	-9	-9	-9	-9	-9
105	2	2799.1	34.666	2	34.665	2	1.756	1.552	27.738	0.011	0.0	2	38.7	2	2.72	2	159.9	2	0.002	2	0.001	2	109.81	2	1393	2	2359.1	2	7.5184	2	2429	2	-9	-9	-9	-9	-9
104	2	2999.0	34.670	2	34.670	2	1.686	1.465	27.748	0.011	0.0	6	38.4	6	2.69	6	162.1	6	-9	9	-9	9	114.16	2	1364	2	2358.0	2	7.5255	2	2428	2	-0.20	-9	-9	-9	-9
103	2	2998.7	34.670	2	34.670	2	1.686	1.465	27.748	0.011	0.0	2	39.8	2	2.68	2	165.2	2	-9	9	-9	9	114.14	2	1359	2	2356.5	2	7.5268	2	2429	2	-9	37.8	-9	-9	-9
102	2	3098.9	34.671	2	34.672	2	1.668	1.438	27.751	0.013	0.0	2	38.4	2	2.68	2	165.6	2	0.006	2	0.002	2	115.33	2	1334	2	2357.7	2	7.5285	2	2429	2	-0.20	-9	-9	-9	-9
101	2	3173.8	34.672	2	-9	5	1.668	1.431	27.752	0.013	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	115.69	6	1343	2	2355.9	2	-9	9	2430	2	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 191 DATE 4/25/94 LATITUDE 22°29.8'N Btm Depth: 3071
CAST 1 LONGITUDE 109°59.7'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Attn cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C atm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
136	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
135	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
134	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
133	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
132	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
131	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
130	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
129	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
128	9	-9	-9	9	-9	1	-9	-9	-9	-9	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
127	2	6.9	34.165	2	34.165	2	18.174	18.173	24.590	0.451	0.2	2	2.5	2	0.68	2	7.5	2	2.517	2	1.300	2	215.48	2	473	2	2053.0	2	7.9123	2	2270	6	-9	-9	-9	-9	-9
126	2	24.7	34.204	2	34.193	2	17.202	17.198	24.857	0.488	0.2	2	6.7	2	0.99	2	10.0	2	2.390	2	1.238	2	185.37	2	-9	9	-9	9	7.8367	2	-9	9	-9	-9	-9	-9	-9
125	2	49.8	34.288	2	34.290	2	16.379	16.371	25.115	0.275	0.4	2	12.9	2	1.41	2	13.9	2	2.159	2	1.083	2	141.71	2	762	2	2132.7	2	7.7345	2	2271	2	-9	-9	-9	-9	-9
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	74.1	34.453	2	34.456	2	14.454	14.443	25.671	0.045	0.2	2	23.2	2	2.11	2	21.8	2	1.549	6	0.775	6	47.16	2	-9	9	-9	9	7.5468	2	-9	9	-9	-9	-9	-9	-9
122	2	100.0	34.596	2	34.596	2	13.381	13.367	26.006	0.041	0.0	2	26.3	2	2.40	2	28.4	2	1.086	2	0.548	2	26.28	2	1429	2	2232.0	2	7.4904	2	2289	2	-9	-9	-9	-9	-9
121	2	149.0	34.661	2	34.653	2	12.034	12.015	26.323	0.032	0.0	2	27.5	2	2.52	2	32.5	2	0.561	2	0.290	2	12.49	2	1581	2	2252.7	2	7.4460	2	2295	2	-9	-9	-9	-9	-9
120	2	199.2	34.645	2	34.644	2	11.383	11.358	26.434	0.031	0.0	2	27.7	2	2.58	2	34.7	2	0.377	2	0.199	2	8.90	2	1646	2	2260.9	2	7.4263	2	2297	2	-9	-9	-9	-9	-9
119	2	251.1	34.624	2	34.624	2	10.659	10.629	26.549	0.031	0.0	2	27.6	2	2.67	2	37.6	2	-9	9	-9	9	5.90	2	1756	2	2271.8	2	7.4028	2	2297	2	-9	-9	-9	-9	-9
118	2	303.0	34.602	2	34.605	2	9.923	9.888	26.660	0.031	0.0	2	28.2	2	2.78	2	42.6	2	0.112	2	0.059	2	1.97	2	1843	2	2281.6	2	7.3823	2	2303	2	-9	-9	-9	-9	-9
117	2	399.7	34.564	2	34.563	2	8.610	8.567	26.845	0.032	0.0	2	31.5	2	2.98	2	57.9	2	0.093	2	0.040	2	1.56	2	1953	2	2301.7	2	7.3609	2	2317	2	-9	-9	-9	-9	-9
116	2	503.3	34.521	2	34.520	2	7.440	7.391	26.987	0.031	0.0	2	34.7	2	3.07	2	68.4	2	-9	9	-9	9	1.05	2	2036	2	2315.0	2	7.3484	2	2327	2	-9	-9	-9	-9	-9
115	2	600.8	34.510	2	34.508	2	6.438	6.383	27.116	0.028	0.0	2	38.1	2	3.18	2	78.8	2	0.022	2	0.006	2	1.43	6	2083	2	2327.9	2	7.3358	2	2337	2	-9	-9	-9	-9	-9
114	2	698.8	34.511	2	34.429	4	5.694	5.634	27.212	0.028	0.1	2	24.6	4	2.20	4	38.1	4	-9	9	-9	9	2.39	2	2047	2	2263.1	3	-9	1	2314	2	-9	-9	-9	-9	-9
113	2	799.2	34.515	2	34.515	2	5.181	5.114	27.278	0.028	0.0	2	42.4	2	3.23	2	93.4	2	0.010	2	0.002	2	3.96	2	2155	2	2348.4	2	7.3263	2	2350	2	-9	-9	-9	-9	-9
112	2	898.7	34.528	2	34.527	2	4.702	4.630	27.343	0.027	0.0	2	43.3	2	3.27	2	103.0	2	-9	9	-9	9	7.47	2	2112	2	2358.8	2	7.3296	2	-9	5	-9	-9	-9	-9	-9
111	2	1000.3	34.536	2	34.535	2	4.433	4.354	27.379	0.027	0.0	2	43.6	2	3.28	2	111.2	2	0.014	2	-0.001	2	10.74	2	2112	2	2361.8	2	7.3329	2	2367	6	-9	-9	-9	-9	-9
110	2	1199.7	34.551	2	34.550	2	4.022	3.929	27.436	0.024	0.0	2	43.9	2	3.28	2	119.9	2	-9	9	-9	9	16.89	2	-9	9	-9	9	7.3439	2	-9	9	-9	-9	-9	-9	-9
109	2	1400.4	34.583	2	34.583	2	3.362	3.259	27.528	0.025	0.0	2	43.0	2	3.18	2	134.7	2	0.010	2	-0.001	2	32.81	2	-9	9	-9	9	7.3716	2	-9	9	-9	-9	-9	-9	-9
108	2	1600.6	34.603	2	34.602	2	2.946	2.831	27.584	0.023	0.0	2	43.2	2	3.09	2	137.2	2	-9	9	-9	9	47.33	2	-9	9	-9	9	7.3992	2	-9	9	-9	-9	-9	-9	-9
107	2	1796.7	34.623	2	34.622	2	2.525	2.399	27.637	0.023	0.0	2	41.2	2	3.01	2	147.2	2	-9	9	-9	9	64.78	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
106	2	2000.9	34.639	2	34.638	2	2.208	2.068	27.677	0.020	0.0	2	40.1	2	2.88	2	153.6	2	-9	9	-9	9	80.02	2	-9	9	-9	9	7.4633	2	-9	9	-9	-9	-9	-9	-9
105	2	2249.4	34.652	2	34.651	2	2.001	1.843	27.705	0.023	0.0	6	39.4	6	2.79	6	155.3	6	-9	9	-9	9	90.60	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	2501.9	34.659	2	34.658	2	1.890	1.711	27.721	0.020	0.0	2	39.2	2	2.75	2	157.9	2	-9	9	-9	9	97.45	2	-9	9	-9	9	7.4970	2	-9	9	-9	-9	-9	-9	-9
103	2	2748.6	34.664	2	34.664	2	1.823	1.623	27.732	0.018	0.0	2	38.5	2	2.69	2	155.9	2	-9	9	-9	9	103.04	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	2749.3	34.664	2	34.663	2	1.823	1.623	27.732	0.018	0.0	2	38.7	2	2.71	2	154.3	2	-9	9	-9	9	102.80	2	-9	9	-9	9	7.5079	2	-9	9	-9	-9	-9	-9	-9
101	2	3080.1	34.669	2	34.668	2	1.730	1.500	27.744	0.018	0.0	2	38.6	2	2.67	2	159.3	2	-9	9	-9	9	110.21	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column

** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 192 DATE 4/25/94 LATITUDE 22°43.9'N Btm Depth: 2018
CAST 1 LONGITUDE 110°0.4'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
127	2	6.7	34.318	2	34.318	2	16.899	16.898	25.015	0.258	0.3	2	11.2	2	1.35	2	12.6	2	-9	9	-9	9	143.36	2	708	2	2123.4	2	7.7609	2	2273	6	-9	-9	-9	2.577	0.704
126	2	25.4	34.351	2	34.349	2	15.925	15.921	25.266	0.245	0.3	2	16.3	2	1.65	2	15.8	2	-9	9	-9	9	112.88	2	-9	9	-9	9	7.6793	2	-9	9	-9	-9	-9	0.936	0.441
125	2	49.5	34.468	2	34.463	2	14.064	14.057	25.764	0.056	0.1	2	23.7	2	2.14	2	22.2	2	-9	9	-9	9	44.77	2	-9	9	-9	9	7.5378	2	-9	9	-9	-9	-9	0.151	0.137
124	9	-9	-9	9	-9	9	-9	-9	-9	-9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
123	2	75.1	34.634	2	34.634	2	13.310	13.300	26.049	0.037	0.1	2	26.5	2	2.42	2	28.5	2	-9	9	-9	9	21.75	6	-9	9	-9	9	-9	1	-9	9	-9	-9	-9	0.023	0.069
122	2	99.5	34.662	2	34.664	2	13.053	13.039	26.123	0.039	0.1	2	26.9	2	2.51	2	30.6	2	-9	9	-9	9	17.18	2	-9	9	-9	9	7.4681	2	-9	9	-9	-9	-9	0.018	0.062
121	2	150.5	34.717	2	34.717	2	12.302	12.282	26.315	0.039	0.0	2	27.5	2	2.61	2	34.2	2	-9	9	-9	9	6.43	2	-9	9	-9	9	7.4384	2	-9	9	-9	-9	-9	0.007	0.059
120	2	199.3	34.714	2	34.713	2	11.810	11.784	26.408	0.030	0.0	2	27.4	2	2.65	2	35.2	2	-9	9	-9	9	4.08	2	-9	9	-9	9	7.4261	2	-9	9	-9	-9	-9	0.007	0.033
119	2	250.1	34.669	2	34.668	2	10.920	10.890	26.537	0.029	0.0	2	27.3	2	2.70	2	37.6	2	-9	9	-9	9	1.83	2	-9	9	-9	9	7.4036	2	-9	9	-9	-9	-9	-9	-9
118	2	300.4	34.631	2	34.629	2	10.158	10.122	26.642	0.031	0.0	2	27.9	2	2.79	2	42.9	2	-9	9	-9	9	0.98	2	-9	9	-9	9	7.3859	2	-9	9	-9	-9	-9	-9	-9
117	2	400.8	34.555	2	34.555	2	8.536	8.494	26.850	0.031	0.0	2	31.5	2	2.97	2	56.3	2	-9	9	-9	9	2.31	2	-9	9	-9	9	7.3602	2	-9	9	-9	-9	-9	-9	-9
116	2	498.8	34.517	2	34.516	2	7.464	7.415	26.980	0.030	0.0	2	34.4	2	3.07	2	66.0	2	-9	9	-9	9	1.37	2	-9	9	-9	9	7.3465	2	-9	9	-9	-9	-9	-9	-9
115	2	599.7	34.503	2	34.503	2	6.502	6.447	27.102	0.028	0.0	2	37.9	2	3.16	2	77.0	2	-9	9	-9	9	1.52	2	-9	9	-9	9	7.3357	2	-9	9	-9	-9	-9	-9	-9
114	2	699.9	34.510	2	34.509	2	6.036	5.973	27.169	0.026	0.0	2	39.6	2	3.19	2	81.6	2	-9	9	-9	9	1.85	2	-9	9	-9	9	7.3330	2	-9	9	-9	-9	-9	-9	-9
113	2	802.0	34.511	2	34.510	2	5.408	5.340	27.248	0.027	0.0	2	41.5	2	3.30	2	91.0	2	-9	9	-9	9	3.59	2	-9	9	-9	9	7.3264	2	-9	9	-9	-9	-9	-9	-9
112	2	899.8	34.524	2	34.523	2	4.856	4.782	27.323	0.027	0.0	2	42.8	2	3.31	2	100.6	2	-9	9	-9	9	6.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
111	2	1003.8	34.537	2	34.536	2	4.415	4.335	27.382	0.025	0.0	2	43.4	2	3.32	2	107.6	2	-9	9	-9	9	10.17	6	-9	9	2359.3	2	-9	9	2375	2	-9	-9	-9	-9	-9
110	2	1000.8	34.537	2	34.536	2	4.427	4.348	27.381	0.025	0.0	2	43.6	2	3.32	2	107.0	2	-9	9	-9	9	10.14	2	-9	9	2359.9	2	-9	9	2373	6	-9	-9	-9	-9	-9
109	2	1001.5	34.537	2	34.536	2	4.425	4.345	27.381	0.025	0.0	2	43.4	2	3.32	2	107.2	2	-9	9	-9	9	10.00	2	-9	9	2359.2	2	-9	9	2373	6	-9	-9	-9	-9	-9
108	2	1000.8	34.537	2	34.536	2	4.420	4.341	27.382	0.025	0.0	2	43.4	2	3.32	2	108.5	2	-9	9	-9	9	10.11	2	-9	9	2360.0	2	-9	9	2371	6	-9	-9	-9	-9	-9
107	2	1001.0	34.536	2	34.536	2	4.425	4.346	27.381	0.025	0.0	2	43.3	2	3.30	2	107.5	2	-9	9	-9	9	21.03	3	-9	9	2358.7	2	-9	9	2373	6	-9	-9	-9	-9	-9
106	2	1199.6	34.561	2	34.561	2	3.809	3.718	27.466	0.027	0.0	2	43.1	2	3.24	2	119.9	2	-9	9	-9	9	34.07	3	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
105	2	1400.5	34.584	2	34.583	2	3.343	3.240	27.530	0.024	0.0	2	42.7	2	3.18	2	128.0	2	-9	9	-9	9	42.03	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
104	2	1601.1	34.597	2	34.596	2	3.083	2.966	27.566	0.024	0.0	2	42.1	2	3.15	2	135.8	2	-9	9	-9	9	-9	1	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
103	2	1799.6	34.617	2	34.617	2	2.634	2.505	27.623	0.023	0.0	2	41.2	2	3.03	2	145.4	2	-9	9	-9	9	61.19	6	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
102	2	1798.9	34.617	2	34.617	2	2.634	2.505	27.623	0.022	0.0	2	41.3	2	3.01	2	142.4	2	-9	9	-9	9	60.35	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9
101	2	2085.7	34.642	2	34.642	2	2.148	2.002	27.685	0.025	0.0	2	39.8	2	2.86	2	147.8	2	-9	9	-9	9	83.59	2	-9	9	-9	9	-9	9	-9	9	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 193 DATE 4/25/94 LATITUDE 22°47.9'N Btm Depth: 950
CAST 1 LONGITUDE 110°0.3'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
117	2	9.0	34.299	2	34.308	2	18.554	18.553	24.598	0.497	0.2	2	4.7	2	0.90	2	8.8	2	2.268	6	1.174	6	187.98	2	514	2	2076.7	2	7.8797	2	2281	6	-9	73.8	-9	-9	-9
116	2	24.0	34.334	2	34.338	2	16.386	16.382	25.148	0.237	0.3	2	13.9	2	1.51	2	13.9	2	2.000	2	1.026	2	110.82	2	-9	9	-9	9	7.7098	2	-9	9	-9	55.2	-9	-9	-9
115	2	45.9	34.455	2	34.461	2	14.653	14.646	25.628	0.093	0.2	2	22.2	2	2.08	2	20.4	2	1.595	2	0.804	2	51.30	6	1164	2	2201.3	2	7.5631	2	2280	2	-9	72.7	-9	-9	-9
114	2	74.8	34.624	2	34.625	2	13.431	13.421	26.016	0.069	0.1	2	26.1	2	2.40	2	27.4	2	1.063	2	0.537	2	23.70	2	-9	9	-9	9	7.4862	2	-9	9	-9	53.8	-9	-9	-9
113	2	98.5	34.666	2	34.659	2	13.162	13.149	26.104	0.054	0.1	2	26.4	2	2.46	2	29.9	2	0.933	6	0.478	6	19.21	2	1454	2	2244.2	2	7.4749	2	-9	5	-9	-9	-9	-9	-9
112	2	151.1	34.722	2	34.722	2	12.513	12.493	26.278	0.058	0.0	2	27.3	2	2.63	2	34.1	2	0.606	2	0.316	2	8.21	2	1580	2	2260.4	2	7.4465	2	2309	2	-9	69.2	-9	-9	-9
111	2	199.4	34.705	2	34.706	2	11.781	11.756	26.406	0.035	0.0	2	27.2	2	2.64	2	35.6	2	0.376	6	0.202	6	3.66	2	1659	2	2268.2	2	7.4262	2	2308	2	-9	-9	-9	-9	-9
110	2	250.5	34.684	2	34.684	2	11.194	11.163	26.500	0.041	0.0	2	27.2	2	2.71	2	36.8	2	0.267	2	0.140	2	1.74	2	1715	2	2276.8	2	7.4108	2	2303	2	-9	51.1	-9	-9	-9
109	2	298.1	34.657	2	34.657	2	10.644	10.608	26.578	0.031	0.0	2	27.3	2	2.77	2	39.7	2	0.192	6	0.102	6	1.21	6	1776	2	2278.0	3	7.3961	2	2325	2	-9	65.0	-9	-9	-9
108	2	403.4	34.571	2	34.573	2	8.918	8.874	26.802	0.035	0.0	2	30.2	2	2.96	2	53.1	2	0.088	2	0.041	2	1.09	2	1926	2	2295.8	2	7.3665	2	2316	2	-9	60.0	-9	-9	-9
107	2	501.1	34.525	2	34.524	2	7.534	7.485	26.976	0.030	0.0	2	34.0	2	3.08	2	65.3	2	-9	1	-9	1	-9	1	-9	9	-9	9	-9	9	-9	9	-0.30	-9	-9	-9	-9
106	2	499.8	34.524	2	34.524	2	7.514	7.465	26.978	0.031	0.0	2	34.2	2	3.10	2	63.7	2	0.050	6	0.018	6	1.14	2	2022	2	-9	9	7.3472	2	2329	2	-9	52.2	-9	-9	-9
105	2	598.2	34.515	2	34.515	2	6.836	6.780	27.067	0.029	0.0	2	36.1	2	3.17	2	72.8	2	0.040	2	0.011	2	1.11	2	2070	2	2323.2	3	7.3400	2	2328	2	-9	-9	-9	-9	-9
104	2	700.0	34.506	2	34.508	2	6.281	6.218	27.135	0.031	0.0	2	38.0	2	3.22	2	79.9	2	-9	9	-9	9	1.86	2	2102	2	2330.8	2	7.3357	2	2348	3	-9	50.6	-9	-9	-9
103	2	805.4	34.512	2	34.513	2	5.514	5.445	27.235	0.035	0.0	2	40.7	2	3.27	2	90.5	2	0.010	6	-0.001	6	3.49	2	2131	2	2343.3	2	-9	9	2349	2	-9	-9	-9	-9	-9
102	2	809.4	34.512	2	34.511	2	5.503	5.434	27.237	0.032	0.0	2	40.5	2	3.25	2	89.1	2	-9	9	-9	9	3.50	2	2137	2	2345.8	2	7.3302	2	2346	2	-9	-9	-9	-9	-9
101	2	951.7	34.535	2	-9	5	4.471	4.395	27.375	0.035	0.0	2	43.7	2	3.40	2	108.5	2	0.013	2	0.001	2	11.38	6	2108	2	2358.0	2	-9	9	2365	6	-9	-9	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 194 DATE 4/25/94 LATITUDE 22°51.1'N Btm Depth: 195
CAST 1 LONGITUDE 109°59.9'W

Sample ID	F**	Pressure db	Salinity CTD	F*	Salinity Bottle	F*	Temp °C	Potential Temp °C	Sigma Theta	Beam Atten cp	NO2 µmol/kg	F*	NO3 µmol/kg	F*	PO4 µmol/kg	F*	Si(OH)4 µmol/kg	F*	CFC-11 pmol/kg	F*	CFC-12 pmol/kg	F*	O2 µmol/kg	F*	fCO2 @20°C µatm	F*	DIC µmol/kg	F*	pH	F*	TAlk µmol/kg	F*	δ13C per mil	TOC µmol/L	TON µmol/L	Chl-a µg/L	Phaeo µg/L
110	2	7.8	34.314	2	34.317	2	17.084	17.083	24.968	-9	0.3	2	10.9	2	1.31	2	12.0	2	-9	9	-9	9	-9	1	671	2	2116.4	2	-9	1	2269	2	0.80	73.5	-9	-9	-9
109	2	8.1	34.316	2	34.316	2	17.021	17.020	24.985	0.468	0.3	2	10.7	2	1.31	2	11.9	2	-9	9	-9	9	153.84	6	-9	9	-9	9	7.7829	2	-9	9	-9	85.8	-9	-9	-9
108	2	24.7	34.382	2	34.380	2	15.716	15.712	25.337	0.254	0.3	2	17.5	2	1.77	2	17.9	2	-9	9	-9	9	117.29	2	-9	9	-9	9	7.6609	2	-9	9	-9	-9	-9	-9	-9
107	2	50.2	34.498	2	34.499	2	14.538	14.530	25.687	0.091	0.2	2	23.0	2	2.15	2	23.2	2	-9	9	-9	9	47.54	2	1218	2	2210.0	2	7.5505	2	2283	2	-9	62.5	-9	-9	-9
106	2	73.4	34.562	2	34.559	2	14.163	14.152	25.817	0.078	0.1	2	24.5	2	2.25	2	24.9	2	-9	9	-9	9	36.24	2	-9	9	-9	9	7.5242	2	-9	9	-9	52.4	-9	-9	-9
105	2	100.3	34.645	2	34.646	2	13.767	13.752	25.965	0.079	0.0	2	25.9	2	2.41	2	28.5	2	-9	9	-9	9	25.13	6	1408	2	2239.9	2	7.4949	2	2299	2	-9	-9	-9	-9	-9
104	2	150.1	34.722	2	34.720	2	12.744	12.724	26.232	0.065	0.0	2	27.1	2	2.59	2	32.8	2	-9	9	-9	9	9.48	2	-9	9	-9	9	7.4521	2	-9	9	-9	49.6	-9	-9	-9
103	2	148.9	34.721	2	34.719	2	12.743	12.723	26.232	0.066	0.0	2	27.2	2	2.58	2	33.7	2	-9	9	-9	9	9.47	2	1571	2	2260.2	2	-9	9	2300	2	-9	-9	-9	-9	-9
102	2	192.0	34.705	2	34.702	2	11.945	11.920	26.375	0.053	0.0	2	27.2	2	2.63	2	35.0	2	-9	9	-9	9	4.55	2	-9	9	-9	9	7.4297	2	-9	9	-9	49.9	-9	-9	-9
101	2	191.6	34.704	2	34.702	2	11.937	11.912	26.376	0.053	0.0	2	27.3	2	2.64	2	34.5	2	-9	9	-9	9	4.71	2	1650	2	2268.0	2	7.4307	2	2302	2	-9	47.2	-9	-9	-9

* WOCE water sample quality flag (F) for parameter from previous column
** WOCE quality flag (F) for PVC sample bottle

APPENDIX B

TABULATED DISCRETE BOTTLE DATA (BIOLOGICAL CASTS)

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	8	DATE	23-Feb-94	LATITUDE	53° 22.9S
CAST	1			LONGITUDE	76° 22.4W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	-9	4	-9	4	-9	9	-9	-9	-9	9	-9	9
50	4.0	0.536	2	0.266	2	22.500	2	4.000	2.2695	-9	9	-9	9
30	8.0	0.523	2	0.271	2	19.330	2	8.000	3.7727	-9	9	-9	9
15	12.0	0.523	2	0.294	2	15.440	2	12.000	1.5995	-9	9	-9	9
5	19.0	0.552	2	0.273	2	9.770	2	19.000	6.1485	-9	9	-9	9
1	34.0	0.514	2	0.311	2	0.490	2	34.000	2.0864	-9	9	-9	9

STATION	9	DATE	25-Feb-94	LATITUDE	61° 12.7S
CAST	1			LONGITUDE	90° 11.2W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	0.147	2	0.045	2	-9	9	-9	-9	-9	9	-9	9
-9	5.0	0.128	2	0.059	2	-9	9	-9	-9	-9	9	-9	9
-9	11.0	0.125	2	0.058	2	-9	9	-9	-9	-9	9	-9	9
-9	17.0	0.131	2	0.056	2	-9	9	-9	-9	-9	9	-9	9
-9	28.0	0.146	2	0.065	2	-9	9	-9	-9	-9	9	-9	9
-9	50.0	0.173	2	0.055	2	-9	9	-9	-9	-9	9	-9	9

STATION	10	DATE	27-Feb-94	LATITUDE	67° 0.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.057	2	0.019	2	1.480	2	0.000	13.2368	-9	9	-9	9
50	6.0	0.055	2	0.015	2	1.590	2	20.000	13.6428	47.3	2	5.5	2
30	12.0	0.056	2	-9	4	1.250	2	33.000	15.3283	36.5	2	4.7	2
15	18.0	0.058	2	0.015	2	0.900	2	51.000	19.6951	37.1	2	4.5	2
5	30.0	0.063	2	0.020	2	0.170	2	81.000	22.2948	40.3	2	4.3	2
1	53.0	0.099	2	0.041	2	0.000	4	126.000	11.7948	35.9	2	4.4	2

STATION	13	DATE	28-Feb-94	LATITUDE	65° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.049	2	0.015	2	1.920	2	0.000	-9	-9	9	-9	9
50	8.0	0.044	2	0.016	2	1.720	2	21.000	8.5652	59.0	2	3.9	2
30	15.0	0.046	2	0.022	2	1.690	2	37.000	4.3814	48.9	2	4.5	2
15	23.0	0.046	2	0.015	2	1.330	2	58.000	-9	49.1	2	4.5	2
5	39.0	0.05	2	0.018	2	0.570	2	90.000	-9	50.8	2	4.2	2
1	69.0	0.074	2	0.034	2	0.150	2	143.000	-9	50.5	2	4.3	2

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	16	DATE	1-Mar-94	LATITUDE	63° 58.0S
CAST	3			LONGITUDE	103° 2.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.065	2	0.026	2	2.010	2	0.000	5.8038	-9	9	-9	9
50	6.0	0.065	2	0.024	2	1.800	2	6.000	7.1641	43.0	2	4.3	2

STATION	19	DATE	2-Mar-94	LATITUDE	62° 30.0S
CAST	3			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.089	2	0.026	2	3.720	2	0.000	4.9304	-9	9	5.1	9
50	5.0	0.091	2	0.025	2	3.990	2	16.000	6.7172	44.2	2	4.8	2
30	11.0	0.09	2	0.027	2	3.530	2	28.000	9.4794	43.3	2	5.2	2
15	17.0	0.089	2	0.024	2	2.760	2	44.000	6.0881	45.9	2	4.6	2
5	28.0	0.089	2	0.024	2	0.940	2	68.000	6.1077	44.9	2	4.4	2
1	50.0	0.091	2	0.026	2	0.130	2	106.000	10.8201	45.4	2	4.8	2

STATION	23	DATE	3-Mar-94	LATITUDE	60° 30.0S
CAST	1			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.226	2	0.070	2	7.370	2	0.000	0.8650	-9	9	-9	9
50	5.0	0.219	2	0.076	2	7.460	2	11.000	0.9492	45.7	2	4.3	2
30	10.0	0.226	2	0.068	2	4.880	2	19.000	4.6657	45.7	2	4.8	2
15	16.0	0.221	2	0.068	2	3.690	2	29.000	1.2948	50.4	2	4.5	2
5	26.0	0.231	2	0.059	2	1.300	2	46.000	1.8226	49.6	2	4.6	2
1	47.0	0.274	2	0.085	2	0.090	2	70.000	2.3103	56.1	2	4.8	2

STATION	26	DATE	4-Mar-94	LATITUDE	59° 0.0S
CAST	1			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.233	2	0.087	2	7.860	2	0.000	0.8070	-9	9	-9	9
50	4.0	0.235	2	0.078	2	6.710	2	11.000	2.0260	51.1	2	4.8	2
30	8.0	0.227	2	0.086	2	7.030	2	19.000	0.8070	51.9	2	4.3	2
15	11.0	0.231	2	0.083	2	5.230	2	29.000	0.9288	49.3	2	4.6	2
5	19.0	0.234	2	-9	4	1.650	2	47.000	1.3324	49.0	2	3.9	2
1	34.0	0.237	2	0.076	2	0.020	2	72.000	-9	47.5	2	4.2	2

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 27 DATE 5-Mar-94 LATITUDE 58° 30.0S
CAST 3 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	0.195	2	0.081	2	-9	9	-9	0.9288	-9	9	-9	9
-9	4.0	0.203	2	0.082	2	-9	9	-9	1.7008	-9	9	-9	9
-9	8.0	0.202	2	0.083	2	-9	9	-9	2.3307	-9	9	-9	9
-9	13.0	0.204	2	0.081	2	-9	9	-9	1.8838	-9	9	-9	9
-9	21.0	0.205	2	0.083	2	-9	9	-9	1.2539	-9	9	-9	9
-9	37.0	0.207	2	0.075	2	-9	9	-9	-9	-9	9	-9	9

STATION 30 DATE 7-Mar-94 LATITUDE 56° 30.0S
CAST 1 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.165	2	0.075	2	6.510	2	0.000	-9	-9	9	-9	9

STATION 33 DATE 8-Mar-94 LATITUDE 54° 29.6S
CAST 1 LONGITUDE 102° 58.9W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.175	2	0.071	2	3.980	2	0.000	0.6673	-9	9	-9	9
50	6.0	0.17	2	0.076	2	4.030	2	12.000	1.2711	40.6	2	4.6	2
30	12.0	0.17	2	0.076	2	4.260	2	21.000	-9	41.1	2	4.5	2
15	18.0	0.16	2	0.080	2	3.960	2	34.000	-9	43.0	2	5.0	2
5	30.0	0.165	2	0.075	2	2.290	2	53.000	-9	43.2	2	4.5	2
1	53.0	0.165	2	0.081	2	0.030	2	81.000	-9	41.4	2	4.6	2

STATION 36 DATE 9-Mar-94 LATITUDE 52° 30.0S
CAST 2 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.141	2	0.052	2	3.110	2	0.000	0.1167	-9	9	-9	9
50	6.0	0.138	2	0.056	2	4.610	2	13.000	0.5783	-9	9	4.7	9
30	12.0	0.138	2	0.056	2	4.050	2	23.000	0.7204	-9	9	4.9	9
15	18.0	0.138	2	0.056	2	3.000	2	36.000	1.0930	-9	9	-9	9
5	30.0	0.138	2	0.054	2	1.590	2	57.000	0.6314	-9	9	4.8	9
1	53.0	0.162	2	0.073	2	0.070	2	86.000	-9	-9	9	5.0	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	40		DATE		10-Mar-94		LATITUDE		49° 50.0S				
CAST	2						LONGITUDE		103° 0.0W				
						Primary							
	Depth	Chl-a	F*	Phaeo	F*	Productivity	F*	Int.	Biogenic Si	TOC	F*	TON	F*
% S.I.	m	µg/L		µg/L		mg C m-³/day		Depth	ug-at/L	µmol/L		µmol/L	
100	0.0	0.110	2	-9	4	5.320	2	8.000	0.6494	-9	9	-9	9
50	8.0	0.112	2	0.053	2	5.140	2	23.000	0.0987	52.9	2	4.8	2
30	15.0	0.107	2	0.046	2	4.100	2	34.000	0.4541	52.6	2	5.2	2
15	23.0	0.102	2	0.049	2	2.960	2	48.000	-9	52.0	2	4.7	2
5	39.0	0.109	2	0.050	2	1.120	2	70.000	0.3650	51.7	2	4.8	2
1	69.0	0.115	2	0.059	2	0.130	2	101.000	-9	54.4	2	5.0	2

STATION	43		DATE		11-Mar-94		LATITUDE		48° 0.0S				
CAST	3						LONGITUDE		103° 0.0W				
						Primary							
	Depth	Chl-a	F*	Phaeo	F*	Productivity	F*	Int.	Biogenic Si	TOC	F*	TON	F*
% S.I.	m	µg/L		µg/L		mg C m-³/day		Depth	ug-at/L	µmol/L		µmol/L	
100	0.0	0.142	2	0.050	2	5.560	2	0.000	0.4721	-9	9	-9	9
50	6.0	0.13	2	0.037	2	6.010	2	14.000	0.5072	76.8	2	4.7	2
30	13.0	0.122	2	0.050	2	4.170	2	24.000	0.4721	66.4	2	4.6	2
15	20.0	0.129	2	0.044	2	3.750	2	37.000	0.6142	69.5	2	4.5	2
5	33.0	0.154	2	0.059	2	1.480	2	58.000	0.5252	-9	9	-9	9
1	59.0	0.147	2	0.059	2	0.210	2	85.000	-9	-9	9	-9	9

STATION	47		DATE		12-Mar-94		LATITUDE		46° 0.0S				
CAST	2						LONGITUDE		103° 0.0W				
						Primary							
	Depth	Chl-a	F*	Phaeo	F*	Productivity	F*	Int.	Biogenic Si	TOC	F*	TON	F*
% S.I.	m	µg/L		µg/L		mg C m-³/day		Depth	ug-at/L	µmol/L		µmol/L	
100	0.0	0.109	2	0.041	2	4.420	2	0.000	0.2409	-9	9	-9	9
50	6.0	0.102	2	0.034	2	3.820	2	15.000	0.3822	49.8	2	4.6	2
30	12.0	0.104	2	0.036	2	3.370	2	26.000	0.5962	52.1	2	4.4	2
15	19.0	0.112	2	0.038	2	2.930	2	42.000	0.5431	-9	9	-9	9
-9	32.0	-9	4	-9	4	-9	9	-9	-9	-9	9	-9	9
1	56.0	0.123	2	0.056	2	0.450	2	96.000	0.8977	-9	9	-9	9

STATION	51		DATE		13-Mar-94		LATITUDE		44° 0.0S				
CAST	2						LONGITUDE		103° 0.0W				
						Primary							
	Depth	Chl-a	F*	Phaeo	F*	Productivity	F*	Int.	Biogenic Si	TOC	F*	TON	F*
% S.I.	m	µg/L		µg/L		mg C m-³/day		Depth	ug-at/L	µmol/L		µmol/L	
100	0.0	0.085	2	0.035	2	4.900	2	0.000	0.2409	-9	9	-9	9
50	8.0	0.094	2	0.037	2	5.210	2	16.000	0.0628	62.8	2	4.8	2
30	16.0	0.096	2	0.043	2	5.050	2	28.000	0.7131	70.6	2	4.8	2
15	24.0	0.091	2	0.044	2	3.560	2	43.000	-9	71.6	2	4.6	2
5	41.0	0.094	2	0.037	2	1.520	2	68.000	0.3471	73.1	2	4.7	2
1	72.0	0.097	2	0.052	2	0.590	2	103.000	-9	-9	9	-9	9
-9	100.0	0.116	2	0.065	2	-9	9	-9	-9	-9	9	-9	9
-9	125.0	0.129	2	0.108	2	-9	9	-9	-9	-9	9	-9	9
-9	150.0	0.143	2	0.145	2	-9	9	-9	-9	-9	9	-9	9
-9	200.0	0.096	2	0.121	2	-9	9	-9	-9	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	55	DATE	14-Mar-94	LATITUDE	42° 0.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-3/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.096	2	0.044	2	5.380	2	0.000	0.0628	-9	9	-9	9
50	7.0	0.095	2	0.043	2	5.280	2	15.000	0.0987	60.7	2	3.8	2
30	14.0	0.101	2	0.045	2	4.530	2	27.000	0.2409	56.0	2	3.3	2
15	22.0	0.105	2	0.055	2	4.380	2	42.000	0.2409	-9	9	-9	9
5	37.0	0.107	2	0.079	2	1.350	2	64.000	0.0113	62.3	2	5.2	2
1	65.0	0.172	2	0.122	2	0.110	2	91.000	0.5072	-9	9	-9	9

STATION	58	DATE	15-Mar-94	LATITUDE	40° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-3/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.085	2	0.031	2	6.810	2	0.000	-9	-9	9	-9	9
50	9.0	0.066	2	0.071	2	7.250	2	17.000	-9	-9	9	-9	9
30	18.0	0.101	2	0.042	2	5.660	2	28.000	-9	-9	9	-9	9
15	27.0	0.106	2	0.056	2	4.840	2	41.000	-9	-9	9	-9	9
5	46.0	0.189	2	0.131	2	1.780	2	61.000	-9	-9	9	-9	9
1	81.0	0.101	2	0.046	2	0.470	2	92.000	-9	-9	9	-9	9

STATION	62	DATE	16-Mar-94	LATITUDE	38° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-3/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.071	2	0.026	2	6.590	2	0.000	1.8894	-9	9	-9	9
50	8.0	0.069	2	0.026	2	6.660	2	18.000	1.7022	-9	9	-9	9
30	17.0	0.069	2	0.025	2	6.110	2	30.000	1.0526	-9	9	-9	9
15	25.0	0.08	2	0.028	2	4.550	2	45.000	1.3186	-9	9	-9	9
5	42.0	0.119	2	0.000	2	2.350	2	68.000	1.2049	-9	9	-9	9
1	75.0	0.17	2	0.116	2	0.790	2	99.000	1.1069	-9	9	-9	9

STATION	66	DATE	17-Mar-94	LATITUDE	36° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-3/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.09	2	0.040	2	11.290	2	0.000	1.0607	-9	9	-9	9
50	8.0	0.083	2	0.044	2	7.550	2	16.000	0.8238	-9	9	-9	9
30	17.0	0.085	2	0.043	2	6.550	2	29.000	0.6726	-9	9	-9	9
15	25.0	0.086	2	0.045	2	5.430	2	45.000	1.0382	-9	9	-9	9
5	42.0	0.085	2	0.047	2	2.030	2	69.000	1.0264	-9	9	-9	9
1	75.0	0.085	2	0.093	2	0.170	2	105.000	0.8391	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	70	DATE	18-Mar-94	LATITUDE	34° 30.0S
CAST	3			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.056	2	0.029	2	6.520	2	0.000	-9	-9	9	-9	9
50	8.0	0.056	2	0.029	2	6.860	2	19.000	-9	-9	9	-9	9
30	16.0	0.063	2	0.030	2	5.210	2	33.000	-9	-9	9	-9	9
15	24.0	0.061	2	0.025	2	3.890	2	50.000	-9	-9	9	-9	9
5	41.0	0.081	2	0.036	2	2.530	2	73.000	-9	-9	9	-9	9
1	72.0	0.145	2	0.089	2	0.220	2	104.000	-9	-9	9	-9	9

STATION	74	DATE	19-Mar-94	LATITUDE	32° 30.0S
CAST	3			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.032	2	0.011	2	1.520	2	0.000	0.5333	-9	9	-9	9
50	12.0	0.032	2	0.008	2	2.010	2	25.000	3.4609	-9	9	-9	9
30	24.0	0.033	2	0.010	2	1.430	2	43.000	1.3267	-9	9	-9	9
15	36.0	0.035	2	0.009	2	0.780	2	65.000	0.2556	-9	9	-9	9
5	62.0	0.052	2	0.015	2	0.690	2	93.000	2.6747	-9	9	-9	9
1	109.0	0.055	2	0.104	2	0.130	2	125.000	-9	-9	9	-9	9

STATION	78	DATE	20-Mar-94	LATITUDE	30° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.029	2	0.007	2	2.140	2	0.000	0.8160	-9	9	-9	9
50	14.0	0.028	2	0.008	2	2.150	2	27.000	0.5954	-9	9	-9	9
30	29.0	0.029	2	0.008	2	1.870	2	45.000	0.7556	-9	9	-9	9
15	44.0	0.045	2	0.018	2	1.560	2	68.000	0.5726	-9	9	-9	9
5	74.0	0.038	2	0.015	2	0.320	2	101.000	0.9345	-9	9	-9	9
1	131.0	0.032	2	0.065	2	0.130	2	139.000	0.5611	-9	9	-9	9

STATION	81	DATE	21-Mar-94	LATITUDE	29° 0.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.025	2	0.009	2	2.400	2	0.000	0.9097	-9	9	-9	9
50	16.0	0.026	2	0.008	2	2.760	2	28.000	0.6791	-9	9	-9	9
30	32.0	0.028	2	0.009	2	2.130	2	47.000	0.7949	-9	9	-9	9
15	48.0	0.031	2	0.015	2	1.450	2	71.000	0.6522	-9	9	-9	9
5	81.0	0.039	2	0.019	2	0.530	2	106.000	0.6770	-9	9	-9	9
1	143.0	0.032	2	0.071	2	0.070	2	144.000	0.9960	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 84 DATE 22-Mar-94 LATITUDE 27° 30.0S
CAST 3 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.023	2	0.007	2	2.690	2	0.000	-9	-9	9	-9	9
50	13.0	0.024	2	0.008	2	2.530	2	28.000	-9	-9	9	-9	9
30	25.0	0.022	2	0.005	2	2.340	2	48.000	-9	-9	9	-9	9
15	39.0	0.026	2	0.009	2	1.800	2	72.000	-9	-9	9	-9	9
5	65.0	0.037	2	0.015	2	1.240	2	104.000	-9	-9	9	-9	9
1	115.0	0.031	2	0.032	2	0.730	2	142.000	-9	-9	9	-9	9

STATION 90 DATE 29-Mar-94 LATITUDE 24° 29.2S
CAST 2 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	0.022	2	0.007	2	-9	9	-9	0.7089	-9	9	-9	9
-9	18.0	0.023	2	0.008	2	-9	9	-9	1.0742	-9	9	-9	9
-9	34.0	0.023	2	0.007	2	-9	9	-9	0.8121	-9	9	-9	9
-9	52.0	0.031	2	0.012	2	-9	9	-9	0.8925	-9	9	-9	9
-9	88.0	0.024	2	0.007	2	-9	9	-9	0.7471	-9	9	-9	9
-9	155.0	0.069	2	0.030	2	-9	9	-9	-9	-9	9	-9	9

STATION 94 DATE 30-Mar-94 LATITUDE 26° 30.0S
CAST 2 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.026	2	0.008	2	3.830	2	0.000	0.7699	-9	9	-9	9
50	15.0	0.027	2	0.009	2	2.350	2	27.000	0.2628	-9	9	-9	9
30	31.0	0.025	2	0.008	2	1.890	2	47.000	0.2743	-9	9	-9	9
-9	47.0	0.034	2	0.012	2	-9	9	-9	0.6056	-9	9	-9	9
-9	79.0	0.047	2	0.020	2	-9	9	-9	0.3133	-9	9	-9	9
-9	140.0	0.102	2	0.051	2	-9	9	-9	0.6967	-9	9	-9	9

STATION 98 DATE 31-Mar-94 LATITUDE 20° 0.0S
CAST 2 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.034	2	0.009	2	3.980	2	0.000	0.4157	-9	9	-9	9
50	16.0	0.032	2	0.010	2	3.650	2	25.000	0.6567	-9	9	-9	9
30	32.0	0.035	2	0.012	2	2.820	2	43.000	0.2760	-9	9	-9	9
15	48.0	0.034	2	0.015	2	2.130	2	66.000	0.2000	-9	9	-9	9
5	82.0	0.054	2	0.024	2	1.840	2	98.000	0.5440	-9	9	-9	9
1	146.0	0.046	2	0.185	2	0.820	2	135.000	0.3168	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	101	DATE	1-Apr-94	LATITUDE	18° 53.6S
CAST	2			LONGITUDE	103° 8.5W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	0.034	2	0.008	2	-9	9	-9	-9	-9	9	-9	9
-9	15.0	0.034	2	0.007	2	-9	9	-9	-9	-9	9	-9	9
-9	30.0	0.034	2	0.013	2	-9	9	-9	-9	-9	9	-9	9
-9	45.0	0.035	2	0.011	2	-9	9	-9	-9	-9	9	-9	9
-9	76.0	0.062	2	0.021	2	-9	9	-9	-9	-9	9	-9	9
-9	134.0	0.119	2	0.071	2	-9	9	-9	-9	-9	9	-9	9

STATION	104	DATE	2-Apr-94	LATITUDE	17° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.045	2	0.014	2	2.780	2	0.000	-9	-9	9	-9	9
50	12.0	0.042	2	0.014	2	2.600	2	22.000	-9	-9	9	-9	9
30	25.0	0.041	2	0.016	2	1.960	2	38.000	-9	-9	9	-9	9
15	38.0	0.05	2	0.012	2	1.820	2	58.000	-9	-9	9	-9	9
5	63.0	0.062	2	0.021	2	1.620	2	87.000	-9	-9	9	-9	9
1	112.0	0.056	2	0.080	2	0.510	2	121.000	-9	-9	9	-9	9

STATION	108	DATE	3-Apr-94	LATITUDE	15° 30.0S
CAST	3			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
-9	0.0	0.036	2	0.011	2	-9	9	-9	0.3291	-9	9	-9	9
-9	10.0	0.033	2	0.008	2	-9	9	-9	0.2727	-9	9	-9	9
30	21.0	0.034	2	0.009	2	2.570	2	42.000	0.3185	-9	9	-9	9
15	31.0	0.04	2	0.013	2	1.010	2	64.000	0.4876	-9	9	-9	9
5	53.0	0.044	2	0.016	2	0.240	2	95.000	0.7779	-9	9	-9	9
1	93.0	0.071	2	0.031	2	0.190	2	130.000	0.4388	-9	9	-9	9

STATION	112	DATE	4-Apr-94	LATITUDE	13° 30.0S
CAST	2			LONGITUDE	103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.096	2	0.033	2	2.480	2	0.000	0.5052	-9	9	-9	9
50	8.0	0.095	2	0.036	2	2.230	2	16.000	0.4978	-9	9	-9	9
30	17.0	0.097	2	0.033	2	2.170	2	27.000	0.6158	-9	9	-9	9
15	25.0	0.098	2	0.031	2	1.980	2	41.000	0.5052	-9	9	-9	9
-9	42.0	0.16	2	0.056	2	-9	9	-9	1.1023	-9	9	-9	9
1	75.0	0.182	2	0.091	2	1.450	2	92.000	0.4904	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 115 DATE 5-Apr-94 LATITUDE 12° 0.0S
CAST 3 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.164	2	0.073	2	8.900	2	0.000	0.8959	74.4	2	5.2	2
50	9.0	0.162	2	0.063	2	8.780	2	13.000	1.2571	81.7	2	5.2	2
30	17.0	0.165	2	0.063	2	9.860	2	22.000	0.7337	88.5	2	5.1	2
15	26.0	0.165	2	0.063	2	6.260	2	34.000	-9	-9	9	4.7	9
5	44.0	0.175	2	0.074	2	3.040	2	52.000	0.7190	-9	9	4.5	9
1	78.0	0.234	2	0.209	2	0.850	2	76.000	-9	-9	9	5.5	9

STATION 119 DATE 6-Apr-94 LATITUDE 10° 0.0S
CAST 3 LONGITUDE 103° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.117	2	0.048	2	9.110	2	0.000	0.7558	77.3	2	6.0	2
50	8.0	0.115	2	0.045	2	10.850	2	15.000	1.1539	76.4	2	6.0	2
30	16.0	0.117	2	0.048	2	8.470	2	23.000	1.0728	86.6	3	6.4	2
15	24.0	0.272	2	0.112	2	6.400	2	35.000	1.6331	78.1	2	6.1	2
5	41.0	0.272	2	0.112	2	3.920	2	51.000	0.9327	-9	9	6.0	9
1	72.0	0.277	2	0.231	2	1.970	2	74.000	-9	73.6	2	7.9	2

STATION 122 DATE 7-Apr-94 LATITUDE 8° 51.2S
CAST 3 LONGITUDE 104° 41.6W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.18	2	0.066	2	11.680	2	0.000	0.4315	76.4	2	4.9	2
50	6.0	0.178	2	0.064	2	11.440	2	12.000	0.5126	71.3	2	5.6	2
30	12.0	0.181	2	0.062	2	9.390	2	21.000	0.7706	77.6	2	5.3	2
15	18.0	0.18	2	0.066	2	6.600	2	33.000	1.5593	72.9	2	5.4	2
5	30.0	0.196	2	0.070	2	2.980	2	50.000	1.0286	71.7	2	5.5	2
1	53.0	0.321	2	0.191	2	0.450	2	72.000	1.3013	72.9	2	5.7	2

STATION 126 DATE 8-Apr-94 LATITUDE 7° 18.4S
CAST 1 LONGITUDE 106° 57.3W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.256	2	0.094	2	12.640	2	0.000	6.1962	-9	9	-9	9
50	6.0	0.244	2	0.091	2	13.420	2	10.000	5.3484	69.7	2	5.3	2
30	12.0	0.246	2	0.095	2	7.670	2	18.000	5.8128	73.3	2	5.5	2
15	18.0	0.252	2	0.091	2	4.080	2	28.000	8.1202	68.2	2	4.7	2
5	30.0	0.301	2	0.172	2	0.580	2	44.000	5.6138	63.0	2	5.1	2
1	53.0	0.246	2	0.223	2	0.000	4	68.000	3.2327	60.0	2	5.7	2

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	130	DATE	10-Apr-94	LATITUDE	5° 46.5S
CAST	2			LONGITUDE	109° 12.6W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.228	2	0.082	2	16.030	2	0.000	-9	66.3	2	5.6	2
50	9.0	0.231	2	0.101	2	14.810	2	11.000	0.5642	69.5	2	5.7	2
30	17.0	0.244	2	0.093	2	14.240	2	19.000	0.9475	74.6	2	5.8	2
15	26.0	0.25	2	0.106	2	9.850	2	29.000	0.8811	73.7	2	5.9	2
5	44.0	0.286	2	0.170	2	2.810	2	45.000	0.4794	70.7	2	5.6	2
1	78.0	0.237	2	0.244	2	0.000	4	67.000	-9	69.0	2	6.7	2

STATION	133	DATE	10-Apr-94	LATITUDE	4° 29.7S
CAST	3			LONGITUDE	110° 19.5W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.218	2	0.085	2	16.090	2	0.000	0.4683	66.4	2	6.3	2
50	7.0	0.22	2	0.082	2	16.570	2	11.000	-9	63.4	2	5.5	2
30	14.0	0.211	2	0.089	2	11.090	2	19.000	-9	72.1	2	5.4	2
15	21.0	0.209	2	0.084	2	11.160	2	30.000	-9	69.4	2	5.2	2
5	35.0	0.301	2	0.160	2	5.710	2	46.000	0.7706	69.8	2	6.1	2
1	62.0	0.282	2	0.260	2	0.840	2	69.000	4.6997	51.7	2	3.9	2

STATION	137	DATE	11-Apr-94	LATITUDE	2° 40.0S
CAST	3			LONGITUDE	110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.175	2	0.067	2	7.130	2	0.000	0.6158	64.8	2	5.1	2
50	8.0	0.164	2	0.076	2	10.330	2	12.000	0.3062	64.6	2	4.8	2
30	15.0	0.165	2	0.072	2	10.590	2	21.000	0.8664	70.9	2	4.8	2
15	23.0	0.221	2	0.123	2	10.530	2	33.000	1.4930	75.5	2	5.4	2
5	39.0	0.241	2	0.129	2	3.820	2	50.000	1.0507	58.2	2	4.9	2
1	69.0	0.247	2	0.263	2	0.440	2	75.000	1.7142	42.1	2	3.9	2

STATION	141	DATE	12-Apr-94	LATITUDE	1° 20.0S
CAST	3			LONGITUDE	110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.155	2	0.073	2	11.690	2	0.000	0.6526	69.2	2	5.5	2
50	6.0	0.161	2	0.080	2	13.060	2	13.000	0.5494	63.8	2	5.5	2
30	12.0	0.165	2	0.060	2	13.700	2	22.000	0.6895	65.8	2	5.7	2
15	19.0	0.175	2	0.073	2	11.720	2	33.000	1.1760	65.0	2	5.7	2
5	32.0	0.246	2	0.106	2	5.830	2	50.000	0.6969	63.6	2	5.1	2
1	56.0	0.254	2	0.195	2	0.400	2	74.000	1.0876	49.6	2	2.6	2

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 145 DATE 13-Apr-94 LATITUDE 0° 0.0S
CAST 2 LONGITUDE 110° 19.0S

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.207	2	0.092	2	15.540	2	0.000	-9	64.9	2	5.1	2
50	8.0	0.224	2	0.096	2	18.760	2	11.000	0.8664	63.0	2	6.2	2
30	16.0	0.233	2	0.095	2	14.280	2	19.000	0.8590	65.2	2	5.6	2
15	24.0	0.256	2	0.115	2	12.190	2	29.000	1.1248	65.4	2	6.1	2
5	41.0	0.308	2	0.185	2	4.900	2	45.000	0.3953	63.6	2	6.1	2
1	71.0	0.373	2	0.327	2	1.580	2	64.000	0.1602	54.7	2	4.0	2

STATION 149 DATE 14-Apr-94 LATITUDE 1° 19.9N
CAST 1 LONGITUDE 110° 19.9W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.108	2	0.059	2	10.750	2	0.000	0.2099	-9	9	4.7	9
50	7.0	0.108	2	0.055	2	12.730	2	15.000	0.3723	69.5	2	5.6	2
30	14.0	0.111	2	0.060	2	12.490	2	26.000	0.1178	74.3	2	5.0	2
15	21.0	0.114	2	0.064	2	10.250	2	39.000	0.2694	69.0	2	4.8	2
5	35.0	0.145	2	0.092	2	3.610	2	59.000	0.0791	68.2	2	4.9	2
1	62.0	0.176	2	0.149	2	0.000	4	87.000	-9	-9	9	-9	9

STATION 153 DATE 15-Apr-94 LATITUDE 2° 40.0N
CAST 2 LONGITUDE 110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.152	2	0.071	2	13.240	2	0.000	-9	78.1	2	6.6	2
50	8.0	0.152	2	0.072	2	13.360	2	13.000	-9	-9	9	7.0	9
30	17.0	0.149	2	0.076	2	14.660	2	22.000	-9	72.7	2	6.1	2
15	25.0	0.166	2	0.079	2	11.690	2	35.000	-9	70.7	2	6.7	2
5	42.0	0.17	2	0.136	2	4.140	2	54.000	-9	-9	9	-9	9
1	75.0	0.248	2	0.384	2	1.410	2	80.000	-9	45.0	2	4.0	2

STATION 157 DATE 16-Apr-94 LATITUDE 4° 30.0N
CAST 2 LONGITUDE 110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.125	2	0.052	2	10.190	2	0.000	-9	73.9	2	6.1	2
50	11.0	0.135	2	0.059	2	13.220	2	13.000	-9	-9	9	6.6	9
30	22.0	0.205	2	0.086	2	12.630	2	22.000	-9	78.9	2	7.3	2
15	33.0	0.32	2	0.212	2	9.740	2	33.000	-9	74.4	2	5.5	2
5	56.0	0.31	2	0.336	2	1.990	2	46.000	-9	55.0	2	5.0	2
1	100.0	0.145	2	0.238	2	0.410	2	68.000	-9	61.7	2	5.8	2

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION 160 DATE 17-Apr-94 LATITUDE 6° 0.0N
CAST 3 LONGITUDE 110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.125	2	0.057	2	7.590	2	0.000	-9	-9	9	-9	9
50	10.0	0.127	2	0.054	2	8.680	2	14.000	-9	-9	9	-9	9
30	20.0	0.171	2	0.069	2	6.890	2	23.000	-9	-9	9	-9	9
15	30.0	0.176	2	0.071	2	4.420	2	34.000	-9	-9	9	-9	9
5	51.0	0.336	2	0.171	2	0.820	2	51.000	-9	-9	9	-9	9
1	90.0	0.206	2	0.248	2	0.030	2	74.000	-9	-9	9	-9	9

STATION 164 DATE 18-Apr-94 LATITUDE 8° 0.0N
CAST 3 LONGITUDE 110° 20.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.116	2	0.049	2	7.610	2	0.000	-9	-9	9	-9	9
50	10.0	0.116	2	0.047	2	9.710	2	14.000	-9	-9	9	-9	9
30	20.0	0.122	2	0.052	2	7.710	2	25.000	-9	-9	9	-9	9
15	30.0	0.13	2	0.062	2	6.230	2	34.000	-9	-9	9	-9	9
5	51.0	0.555	2	0.255	2	4.940	2	44.000	-9	-9	9	-9	9
1	90.0	0.167	2	0.266	2	0.040	2	61.000	-9	-9	9	-9	9

STATION 168 DATE 19-Apr-94 LATITUDE 10° 9.9N
CAST 2 LONGITUDE 110° 0.3W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.173	2	0.055	2	8.640	2	0.000	-9	-9	9	-9	9
50	10.0	0.168	2	0.053	2	8.470	2	13.000	-9	-9	9	-9	9
30	20.0	0.154	2	0.073	2	7.110	2	22.000	-9	-9	9	-9	9
15	30.0	0.153	2	0.063	2	6.660	2	34.000	-9	-9	9	-9	9
5	50.0	0.184	2	0.079	2	3.880	2	51.000	-9	-9	9	-9	9
1	87.0	0.266	2	0.381	2	1.060	2	73.000	-9	-9	9	-9	9

STATION 172 DATE 20-Apr-94 LATITUDE 12° 40.3N
CAST 2 LONGITUDE 109° 59.9W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.106	2	0.038	2	4.080	2	0.000	0.2482	-9	9	-9	9
50	10.0	0.105	2	0.036	2	6.080	2	16.000	0.1951	-9	9	-9	9
30	20.0	0.104	2	0.040	2	5.990	2	27.000	0.1763	-9	9	-9	9
15	30.0	0.116	2	0.050	2	5.090	2	40.000	0.1158	-9	9	-9	9
5	51.0	0.198	2	0.078	2	2.990	2	58.000	0.1422	-9	9	-9	9
1	90.0	0.426	2	0.301	2	0.550	2	80.000	-9	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

NOAA CGC94
WOCE P18
NOAA Ship *Discoverer*

STATION	175	DATE	21-Apr-94	LATITUDE	14° 29.6N
CAST	3			LONGITUDE	110° 0.5W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.102	2	0.034	2	6.920	2	0.000	0.3025	-9	9	-9	9
50	12.0	0.091	2	0.030	2	6.290	2	15.000	0.3412	-9	9	-9	9
30	23.0	0.093	2	0.030	2	5.260	2	27.000	0.3441	-9	9	-9	9
15	35.0	0.099	2	0.030	2	5.040	2	42.000	0.2599	-9	9	-9	9
5	60.0	0.135	2	0.068	2	3.440	2	64.000	0.1785	-9	9	-9	9
1	106.0	0.255	2	0.281	2	0.450	2	89.000	0.6565	-9	9	-9	9

STATION	179	DATE	22-Apr-94	LATITUDE	16° 30.0N
CAST	3			LONGITUDE	110° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.116	2	0.033	2	8.010	2	0.000	-9	-9	9	-9	9
50	9.0	0.104	2	0.042	2	7.140	2	15.000	-9	-9	9	-9	9
30	19.0	0.1	2	0.031	2	6.850	2	26.000	-9	-9	9	-9	9
15	28.0	0.124	2	0.050	2	6.300	2	38.000	-9	-9	9	-9	9
5	48.0	0.238	2	0.109	2	2.820	2	55.000	-9	-9	9	-9	9
1	84.0	0.213	2	0.275	2	0.870	2	76.000	-9	-9	9	-9	9

STATION	183	DATE	23-Apr-94	LATITUDE	18° 30.0N
CAST	3			LONGITUDE	110° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.093	2	0.030	2	3.220	2	0.000	0.5789	-9	9	-9	9
50	11.0	0.096	2	0.031	2	3.680	2	16.000	0.1071	-9	9	-9	9
30	22.0	0.089	2	0.026	2	3.180	2	27.000	0.9106	-9	9	-9	9
15	33.0	0.108	2	0.037	2	2.380	2	42.000	0.5789	-9	9	-9	9
5	56.0	0.199	2	0.090	2	1.340	2	62.000	0.3578	-9	9	-9	9
1	100.0	0.237	2	0.289	2	1.610	2	86.000	0.3578	-9	9	-9	9

STATION	188	DATE	24-Apr-94	LATITUDE	21° 0.0N
CAST	2			LONGITUDE	110° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	0.102	2	0.030	2	3.940	2	0.000	0.3578	-9	9	-9	9
50	10.0	0.102	2	0.033	2	4.660	2	15.000	0.3209	-9	9	-9	9
30	20.0	0.106	2	0.034	2	4.190	2	26.000	0.3725	-9	9	-9	9
15	30.0	0.14	2	0.060	2	4.070	2	40.000	0.6674	-9	9	-9	9
5	51.0	0.282	2	0.150	2	3.910	2	57.000	0.3430	-9	9	-9	9
1	90.0	0.189	2	0.258	2	0.100	2	76.000	0.3283	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column

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WOCE P18
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STATION	192	DATE	25-Apr-94	LATITUDE	22° 43.8N
CAST	3			LONGITUDE	110° 0.0W

% S.I.	Depth m	Chl-a µg/L	F*	Phaeo µg/L	F*	Primary Productivity mg C m-³/day	F*	Int. Depth	Biogenic Si ug-at/L	TOC µmol/L	F*	TON µmol/L	F*
100	0.0	2.076	2	0.625	2	86.360	2	0.000	-9	-9	9	-9	9
50	3.0	2.306	2	0.729	2	100.940	2	4.000	-9	-9	9	-9	9
30	7.0	1.913	2	0.556	2	86.610	2	7.000	-9	-9	9	-9	9
15	10.0	2.143	2	0.610	2	78.570	2	11.000	-9	-9	9	-9	9
5	18.0	1.183	2	0.432	2	23.950	2	19.000	-9	-9	9	-9	9
1	31.0	0.508	2	0.294	2	1.310	2	34.000	-9	-9	9	-9	9

* WOCE water sample quality flag (F) for parameter from previous column