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Woods Hole Oceanographic Institution



Hydrographic Data from R.V. *Oceanus* Cruise 133, Leg VII

by

George P. Knapp and Henry M. Stommel

December 1985

Technical Report

*Funding provided by the National Science Foundation
under grant No. OCE 80-15789.*

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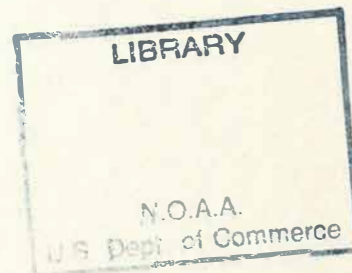
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Approved for Distribution:

Robert C. Beardsley
Robert C. Beardsley, Chairman
Department of Physical Oceanography



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ABSTRACT

Hydrographic data collected during R.V. Oceanus cruise 133, leg VII are presented. These data include temperature, salinity and dissolved oxygen observed at standard levels by a Neil Brown Instrument Systems' CTD-02 profiler and salinity, dissolved oxygen, silicate, phosphate and nitrate values at the observed depths of the collected water samples. Ninety-four stations were occupied on a meridional section at (nominally) 52° West from Brazil to Greenland. Also presented are a series of sectional profiles of the six observed parameters as a function of depth.

HYDROGRAPHIC DATA FROM R.V. OCEANUS CRUISE 133, LEG VII

Data Report
by
George P. Knapp and Henry M. Stommel

DATA DESCRIPTION

This report tabulates the hydrographic data obtained during the R. V. Oceanus cruise 133, leg VII. During April-May 1983, ninety-four stations were occupied on a meridional section at (nominally) 52°W from the coast of Brazil to the coast of Greenland. The distance between stations was 30 nautical miles with closer spacing on the continental slopes and while crossing the Gulf Stream. On each station a Neil Brown Instrument Systems' Conductivity-Temperature-Depth-Oxygen Profiler (CTD-02) equipped with a General Oceanics Co. rosette sampler with twenty-four 1.2 liter Niskin bottles and a bottom finding pinger was lowered to within 20 meters of the bottom. During each station, pressure, temperature, conductivity and dissolved oxygen were measured continuously. Water samples were collected for calibration of the CTD-02 salinity and oxygen sensors and for the analysis of silicate, phosphate and nitrate.

Water-sample salinities were measured on a Guildline Model 8400 Autosol salinometer which was standardized using a single batch of I.A.P.S.O. standard water: Batch P-93. These values are believed accurate to ± 0.003 ppt. Dissolved oxygen values were determined by a modified Winkler titration method (Carpenter, 1965) with a colorimetric endpoint determination. Standardizations were performed with 0.01N potassium iodide solutions prepared just prior to the cruise. Accuracy of the oxygen values is about ± 0.05 ml/l. Silicate, phosphate and nitrate analysis were performed at sea on a Technicon AutoAnalyzer using standard solutions prepared aboard ship from preweighed standards. The final phosphate values seem accurate to $\pm 1\%$, and the silica and nitrate values to $\pm 2\%$. The temperature sensor on the CTD-02 was calibrated before and after the cruise and is believed accurate to $\pm 0.002^\circ\text{C}$. The raw data from the temperature, conductivity and oxygen sensors were processed by the standard techniques of the W.H.O.I. CTD Group (Millard, 1982). Both the final CTD-02 data set (sorted by 2 db intervals) and the nutrient data set have been submitted to the National Oceanographic Data Center.

The CTD-02 and hydrographic data in this report are presented in two separate formats. The first listing on each page is the CTD-02 temperature, salinity and oxygen values at standard pressures. These values are the average of a six decibar segment of the water column, centered on the standard pressure. Following the oxygen column are calculated variables, based on the 1980 equation of state of seawater (Fofonoff and Millard, 1984): potential temperature, density relative to 0, 1500 and 3000 db, dynamic height, Brunt-Vaisala period and depth.

The second listing is of the water-sample data. In the first two columns are the CTD-02 pressure and temperature at which the samples were collected. Following these are the water-sample salinity, dissolved oxygen and nutrient values, theta, sigma-theta, sigma-3 and depth.

Also presented are sectional profiles showing the six observed properties as a function of depth. Vertical distortion is 500:1. The bathymetry between stations was recorded continuously during the cruise, and is plotted here at approximately four nautical mile intervals. The dots on the nutrient profiles represent bottle positions.

ACKNOWLEDGEMENTS

We wish to thank the officers and crew of the R.V. Oceanus for the excellent cooperation and fine seamanship exhibited during the cruise, the last leg of an eighteen week voyage away from home for most of them. This work was generously supported by the National Science Foundation grant no. OCE80-15789.

REFERENCES

- Carpenter, J.H. 1965. The Chesapeake Bay Institute technique for Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10, 141-143.
- Fofonoff, N.P. and R.C. Millard, Jr. 1984. Algorithms for computation of fundamental properties of seawater. UNESCO, Tech. Pap. Mar. Sci., 44, 53 pp.
- Millard, R.C., Jr. 1982. CTD calibration and data processing techniques using the 1978 Practical Salinity Scale. *Proc. International STD Conf. and Workshop*, Mar. Tech. Soc.

Table 1

Dates, Itinerary, and List of Participants

Recife, Brazil - Woods Hole, Mass.
27 April - 20 May 1983

=====

* Dr. Michael S. McCartney, Chief Scientist
Dr. Edward M. Hulburt
Mr. Emile M. Bergeron
Ms. Ruth A. Gorski
Mr. George P. Knapp
Mr. Ronald J. Kroll
Ms. Cynthia H. Lanyon
Mr. Robert J. Stanley
Mr. Neil Gershenfeld, Bell Laboratories
Mr. Joseph C. Jennings, Oregon State University
Ms. Dorothy Lowman, Oregon State University

* Replaced Dr. Henry M. Stommel due to illness

Table 2

Dates and Positions of Stations

Station No.	Date	Position	
		North	West
211	1 May 1983	5° 59.9'	52° 2.2'
212	1 May 1983	6° 18.8'	52° 3.6'
213	2 May 1983	6° 21.9'	52° 4.3'
214	2 May 1983	6° 25.1'	52° 5.0'
215	2 May 1983	6° 30.9'	52° 7.4'
216	2 May 1983	6° 34.1'	52° 6.5'
217	2 May 1983	6° 44.4'	52° 5.9'
218	2 May 1983	6° 54.1'	52° 3.7'
219	2 May 1983	7° 11.9'	52° 2.6'
220	2 May 1983	7° 29.9'	52° 0.7'
221	2 May 1983	8° 0.0'	51° 59.6'
222	2 May 1983	8° 30.0'	51° 59.0'
223	3 May 1983	9° 0.1'	51° 56.4'
224	3 May 1983	9° 33.0'	51° 59.9'
225	3 May 1983	10° 1.5'	52° 0.0'
226	3 May 1983	10° 30.0'	52° 0.5'
227	3 May 1983	10° 59.9'	52° 0.5'
228	4 May 1983	11° 31.0'	52° 0.0'
229	4 May 1983	11° 55.5'	51° 59.3'
230	4 May 1983	12° 33.4'	52° 1.0'
231	4 May 1983	13° 0.1'	51° 59.5'
232	4 May 1983	13° 29.9'	52° 0.0'
233	5 May 1983	14° 0.0'	51° 59.5'
234	5 May 1983	14° 32.0'	51° 58.9'
235	5 May 1983	15° 0.0'	51° 58.6'
236	5 May 1983	15° 30.0'	51° 59.8'
237	5 May 1983	16° 0.0'	52° 0.0'
238	6 May 1983	16° 30.0'	52° 0.2'
239	6 May 1983	17° 0.0'	52° 0.0'
240	6 May 1983	17° 29.8'	51° 59.9'
241	6 May 1983	18° 0.0'	52° 0.0'
242	6 May 1983	18° 30.7'	52° 0.0'
243	6 May 1983	19° 0.4'	51° 29.0'
244	7 May 1983	19° 30.0'	52° 0.1'
245	7 May 1983	20° 0.0'	51° 59.5'
246	7 May 1983	20° 30.5'	51° 59.1'
247	7 May 1983	21° 0.1'	52° 0.8'
248	8 May 1983	21° 30.0'	52° 0.5'
249	8 May 1983	22° 0.5'	51° 59.2'
250	8 May 1983	22° 30.1'	51° 59.0'
251	8 May 1983	22° 56.1'	51° 58.9'
252	8 May 1983	23° 30.5'	51° 59.2'
253	9 May 1983	24° 0.0'	52° 0.0'
254	9 May 1983	24° 31.0'	52° 0.2'

Table 2 (continued)

255	9 May 1983	25° 0.0'	51° 59.8'
256	9 May 1983	25° 30.0'	52° 1.0'
257	9 May 1983	26° 0.0'	51° 58.8'
258	10 May 1983	26° 30.0'	51° 59.9'
259	10 May 1983	27° 0.0'	51° 59.7'
260	10 May 1983	27° 29.2'	51° 59.2'
261	10 May 1983	28° 0.0'	51° 59.9'
262	10 May 1983	28° 30.3'	52° 0.1'
263	11 May 1983	29° 0.6'	51° 58.9'
264	11 May 1983	29° 30.0'	52° 11.3'
265	11 May 1983	30° 0.3'	52° 21.7'
266	11 May 1983	30° 30.0'	52° 31.0'
267	11 May 1983	31° 1.7'	52° 41.0'
268	11 May 1983	31° 30.5'	52° 56.5'
269	12 May 1983	32° 0.0'	53° 7.2'
270	12 May 1983	32° 30.1'	53° 18.4'
271	12 May 1983	33° 0.1'	53° 28.7'
272	12 May 1983	33° 30.0'	53° 29.0'
273	12 May 1983	34° 0.0'	53° 29.0'
274	13 May 1983	34° 30.0'	53° 30.1'
275	13 May 1983	35° 0.6'	53° 30.0'
276	13 May 1983	35° 30.6'	53° 29.6'
277	13 May 1983	36° 0.0'	53° 31.0'
278	13 May 1983	36° 30.5'	53° 28.5'
279	14 May 1983	37° 0.0'	53° 29.9'
280	14 May 1983	37° 30.0'	53° 30.0'
281	14 May 1983	38° 0.0'	53° 29.8'
282	14 May 1983	38° 30.0'	53° 29.4'
283	14 May 1983	38° 40.1'	53° 29.9'
284	15 May 1983	38° 50.2'	53° 29.5'
285	15 May 1983	39° 0.0'	53° 30.0'
286	15 May 1983	39° 10.1'	53° 30.0'
287	15 May 1983	39° 21.5'	53° 29.0'
288	15 May 1983	39° 30.0'	53° 30.1'
289	15 May 1983	39° 44.1'	53° 29.0'
290	15 May 1983	39° 59.9'	53° 31.5'
291	16 May 1983	40° 30.0'	53° 30.0'
292	16 May 1983	41° 0.3'	53° 30.4'
293	16 May 1983	41° 29.8'	53° 29.9'
294	16 May 1983	42° 0.9'	53° 30.0'
295	16 May 1983	42° 29.4'	53° 1.9'
296	17 May 1983	42° 36.6'	52° 55.4'
297	17 May 1983	42° 51.0'	52° 42.0'
298	17 May 1983	43° 5.0'	52° 26.8'
299	17 May 1983	43° 12.6'	52° 19.1'
300	17 May 1983	43° 18.1'	52° 15.2'
301	17 May 1983	43° 25.9'	52° 11.7'
302	17 May 1983	43° 31.6'	52° 9.2'
303	17 May 1983	43° 35.5'	52° 4.8'
304	17 May 1983	43° 37.3'	52° 2.5'

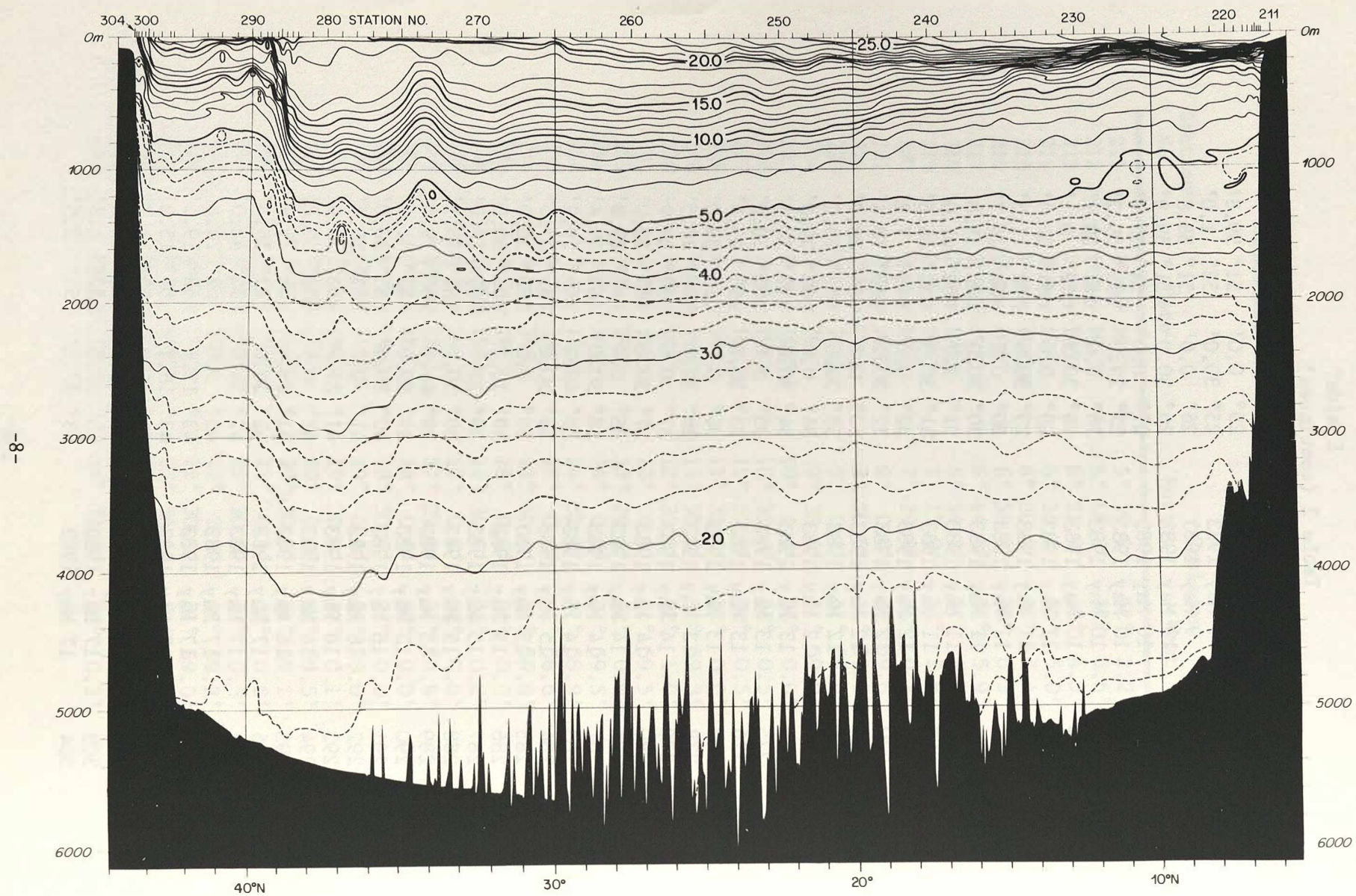


Figure 1 - Temperature Profile

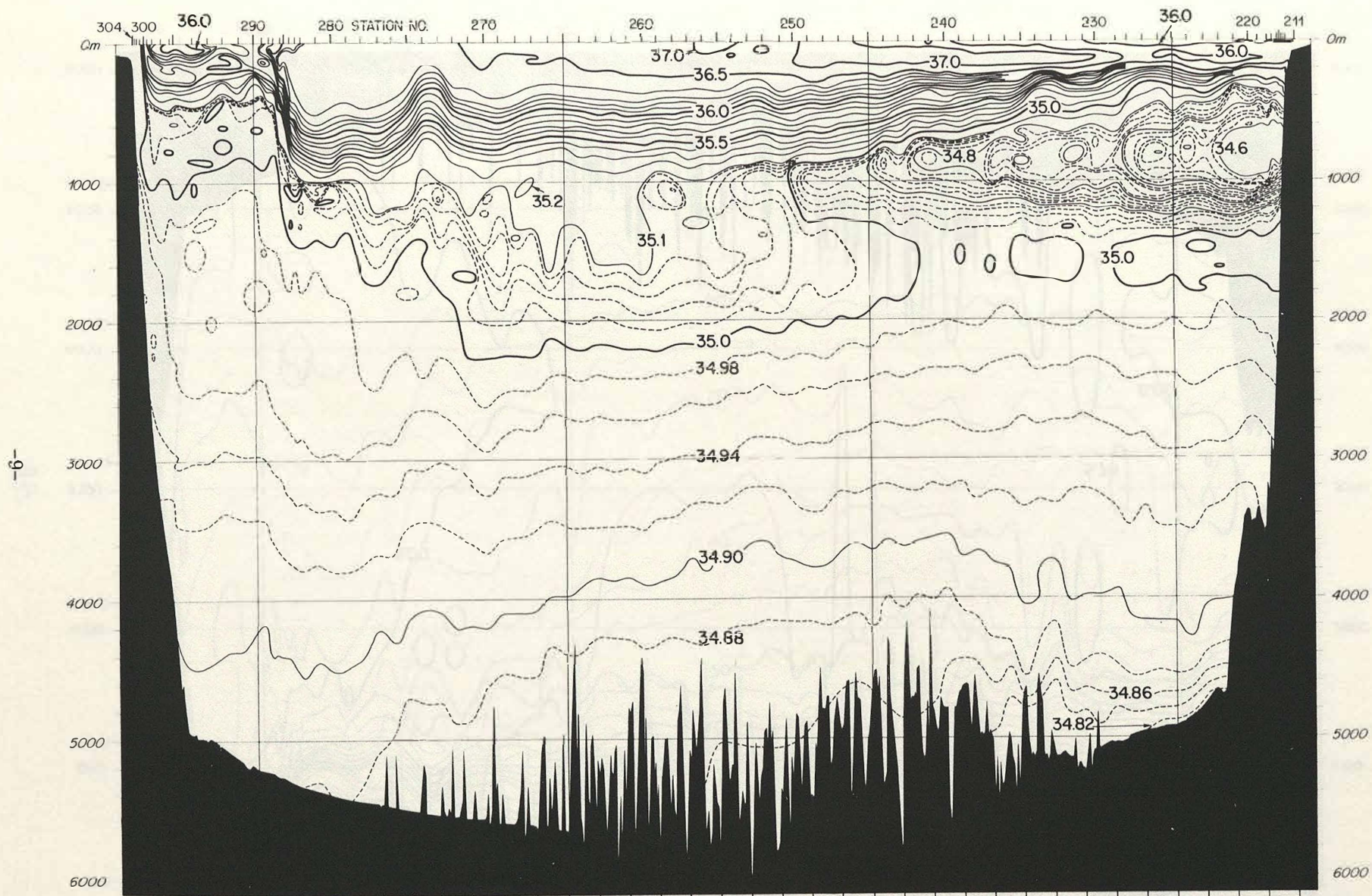


Figure 2 - Salinity Profile

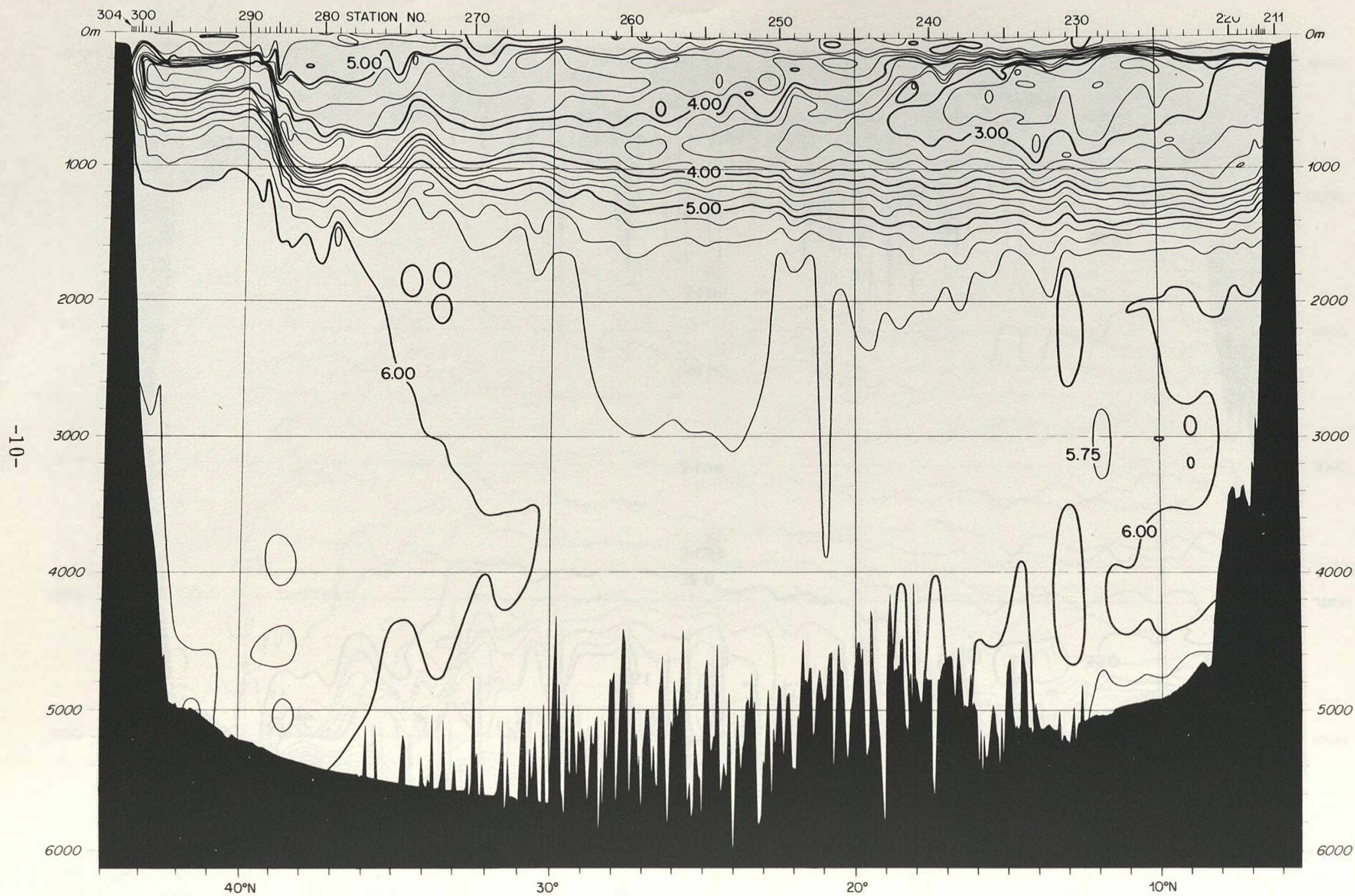


Figure 3 - Oxygen Profile

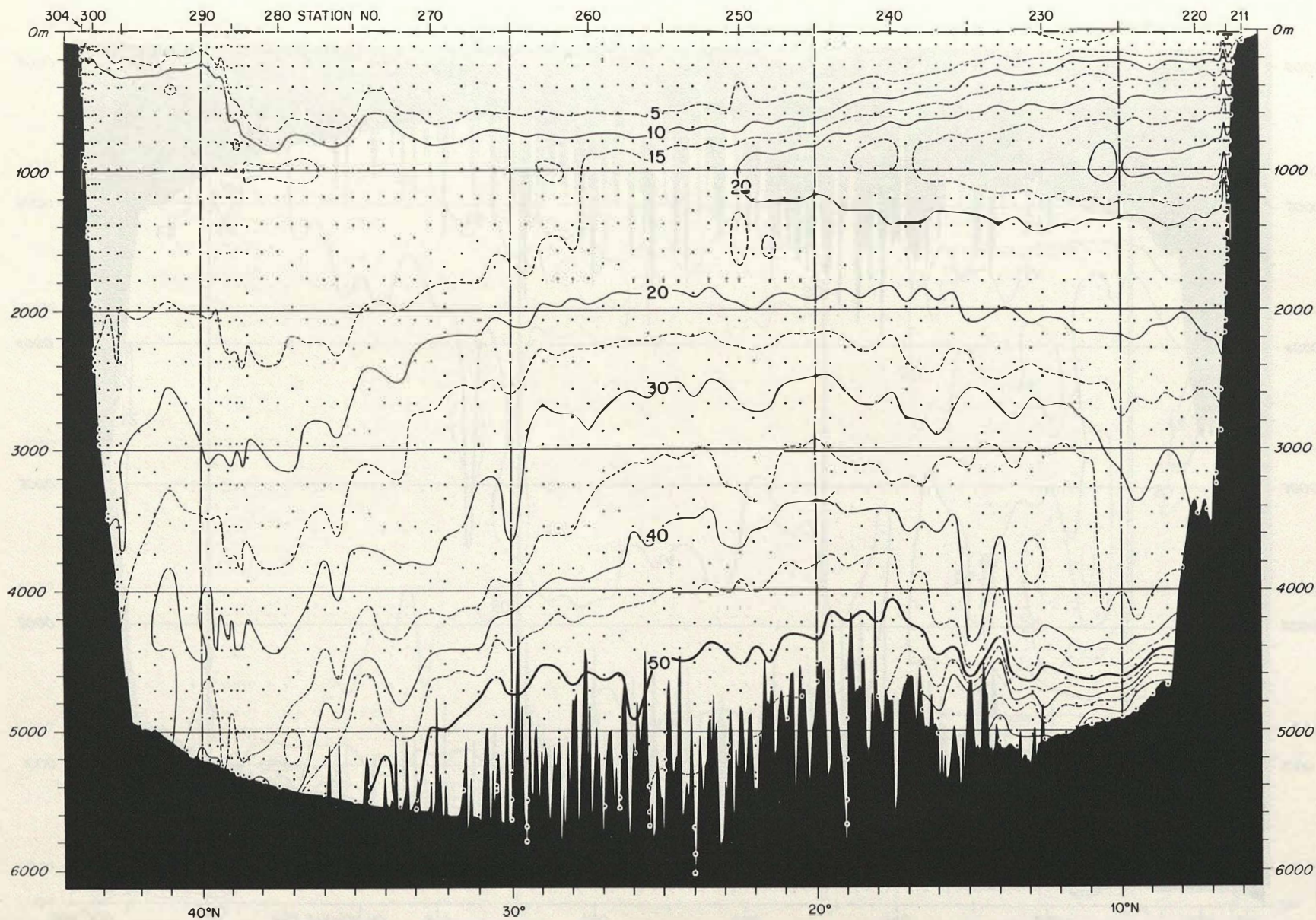


Figure 4 - Silicate Profile

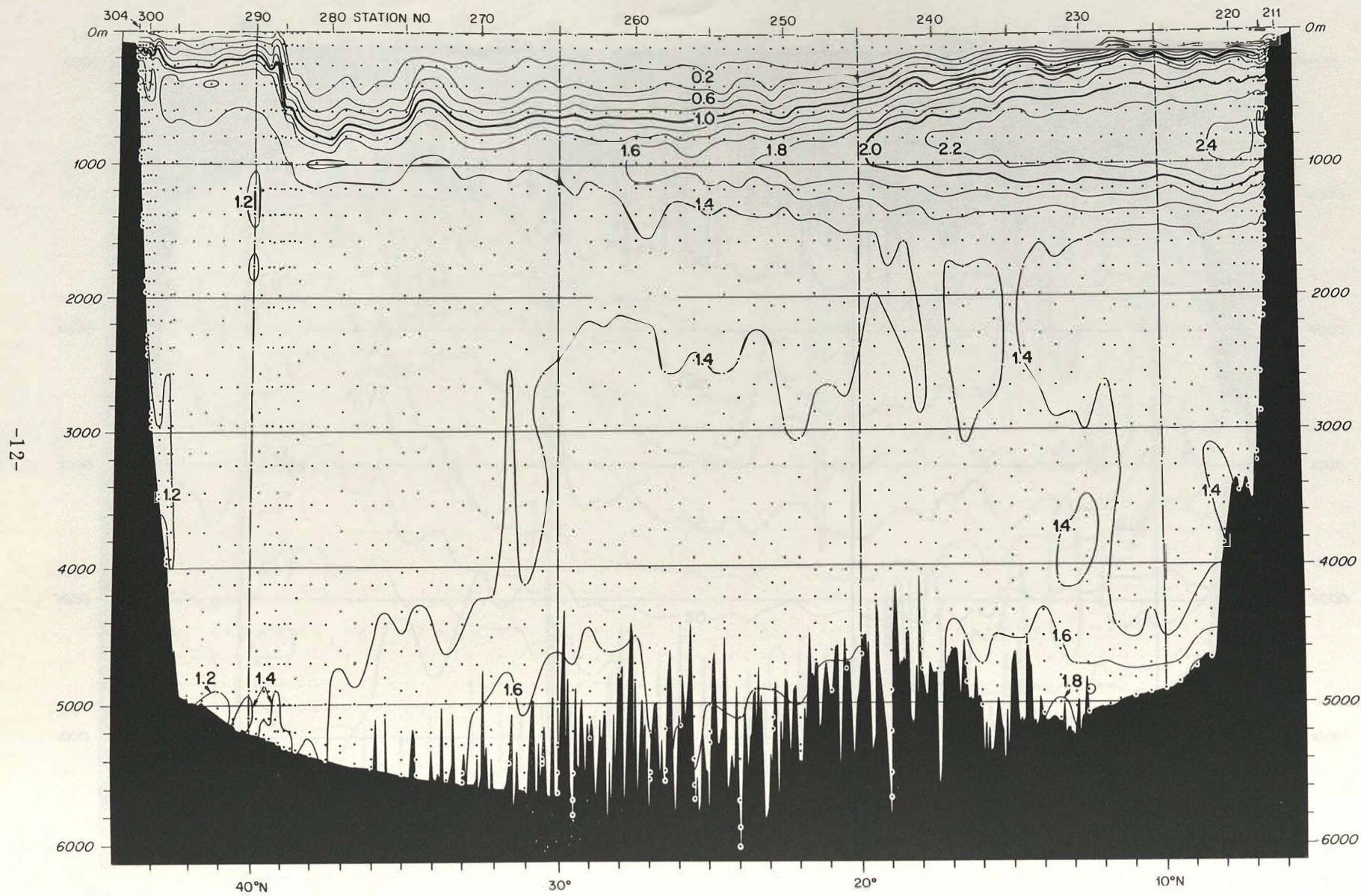


Figure 5 - Phosphate Profile

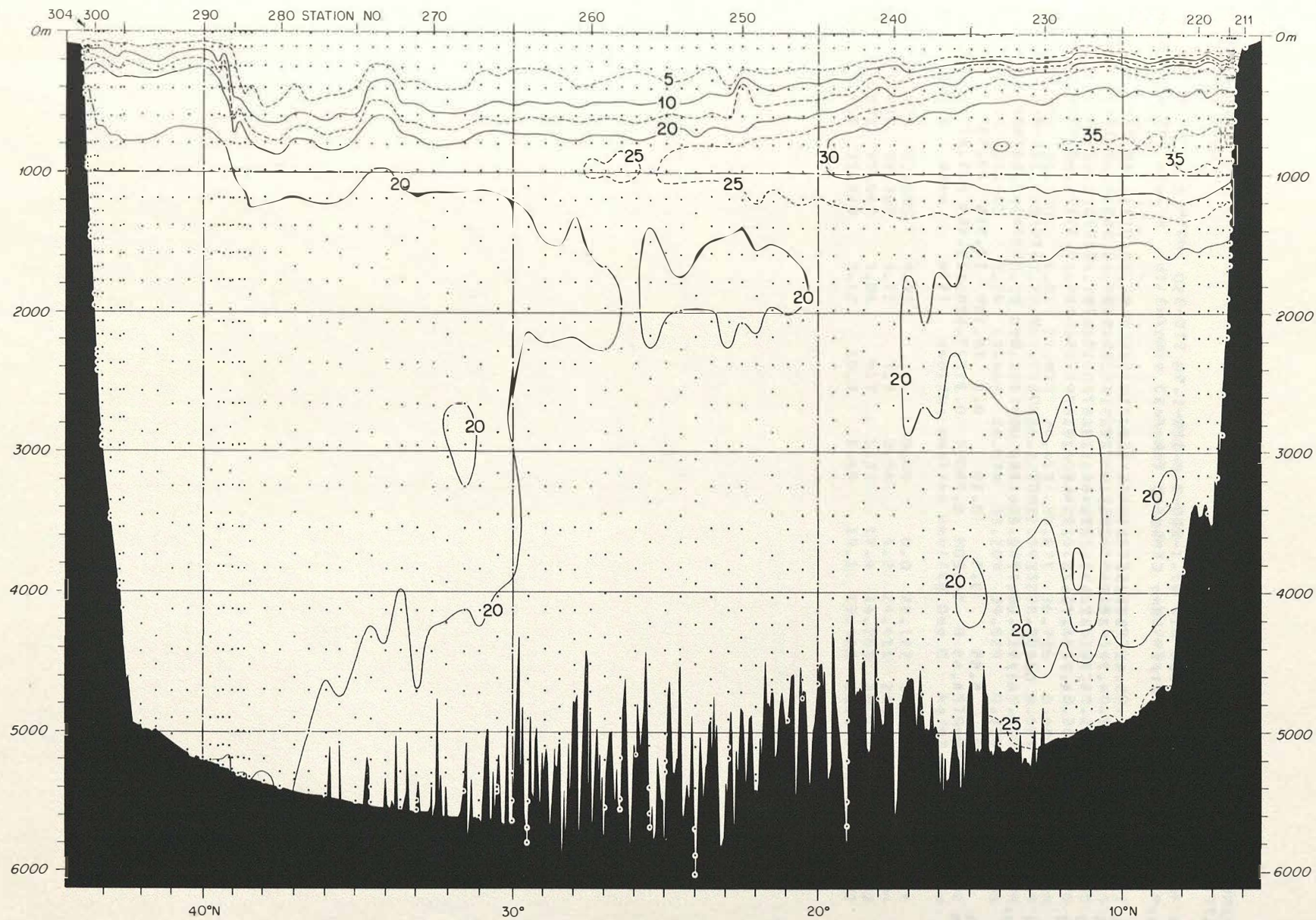


Figure 6 - Nitrate Profile

OCEANUS 133 STA-211 LAT= 5 59.9N LON= 52 2.2W SONIC DEPTH= 75m
DATE 1/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	28.252	24.490	5.41	28.252	14.436	20.730	26.819	0.013	48.27	1
25	27.955	36.191	4.74	27.949	23.310	29.511	35.513	0.165	8.10	25
50	27.644	36.261	4.74	27.633	23.466	29.672	35.678	0.276	2.01	50
63	27.643	36.262	4.74	27.628	23.468	29.674	35.681	0.334	-0.07	63

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
6	28.310	28.230	5.55	3.5	0.10	0.1	28.309	17.216	29.535	6
69	27.644	36.257	4.65	14.2	0.24	0.1	27.628	23.464	35.677	69

OCEANUS 133 STA-212 LAT= 6 18.8N LON= 52 3.6W SONIC DEPTH= 258m
DATE 1/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	27.935	27.217	5.23	27.935	16.577	22.853	28.926	0.011	44.84	1
25	28.138	36.202	4.79	28.132	23.258	29.456	35.454	0.153	3.25	25
50	28.013	36.230	4.76	28.001	23.321	29.522	35.522	0.268	3.45	50
75	27.806	36.251	4.74	27.789	23.407	29.611	35.615	0.381	5.96	75
100	24.859	36.350	4.51	24.837	24.413	30.671	36.726	0.485	13.91	99
150	17.577	36.028	3.27	17.552	26.171	32.593	38.804	0.604	6.70	149
200	14.185	35.592	3.15	14.156	26.612	33.127	39.428	0.685	3.36	199
237	13.498	35.483	3.24	13.464	26.674	33.209	39.529	0.738	1.25	236

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
7	28.178	27.595	4.92		0.09	0.0	28.177	16.783	29.117	6
105	24.433	36.303	4.22	3.5	0.54	4.2	24.411	24.507	36.837	104
193	14.291	35.640	3.06	9.7	1.37	17.4	14.263	26.627	39.435	192
234	13.455	35.470	3.12	10.3	1.49	19.1	13.422	26.672	39.530	232

OCEANUS 133 STA-213 LAT= 6 21.9N LON= 52 4.3W SONIC DEPTH= 616m
 DATE 2/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	27.910	27.858	4.16	27.910	17.065	23.337	29.405	0.011	43.74	1
25	28.121	36.198	4.70	28.115	23.260	29.459	35.457	0.152	2.11	25
50	28.041	36.228	4.70	28.029	23.311	29.511	35.511	0.267	3.08	50
75	27.828	36.251	4.64	27.811	23.400	29.603	35.607	0.381	5.96	75
100	23.761	36.352	4.44	23.740	24.744	31.024	37.100	0.482	12.98	99
150	18.372	36.216	3.25	18.346	26.119	32.519	38.710	0.600	6.83	149
200	14.072	35.594	3.16	14.043	26.638	33.156	39.460	0.684	4.14	199
300	10.593	35.063	3.16	10.557	26.905	33.531	39.939	0.814	2.17	299
400	8.833	34.843	3.08	8.790	27.029	33.715	40.179	0.932	2.69	397
500	7.337	34.693	2.91	7.288	27.137	33.876	40.390	1.036	1.72	497
600	6.259	34.609	3.08	6.205	27.217	33.996	40.548	1.133	1.84	596
607	6.154	34.602	3.10	6.100	27.225	34.008	40.564	1.139	1.97	603

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
8	28.162	36.186	4.70	1.9	0.12	0.1	28.160	23.236	35.432	8
96	25.818	36.397	4.41	2.4	0.27	1.7	25.797	24.153	36.430	95
152	18.296	36.245	3.15	5.0	0.86	12.6	18.269	26.160	38.754	151
293	10.659	35.067	3.09	12.8	1.86	24.8	10.624	26.896	39.926	291
392	8.783	34.830	3.20	16.6	2.20	29.6	8.740	27.027	40.180	389
491	7.440	34.694	2.87	20.9	2.45	33.3	7.392	27.123	40.369	488
609	6.135	34.597	3.05	26.0	2.61	35.1	6.081	27.224	40.564	605

OCEANUS 133 STA-214 LAT= 6 25.1N LON= 52 5.0W SONIC DEPTH= 892m
DATE 2/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	27.683	27.602	3.90	27.683	16.945	23.223	29.297	0.011	42.22	1
25	28.164	36.188	4.81	28.159	23.238	29.436	35.434	0.145	1.72	25
50	28.063	36.222	4.80	28.051	23.299	29.499	35.498	0.261	3.75	50
75	27.783	36.254	4.77	27.765	23.417	29.621	35.625	0.374	5.57	75
100	23.802	36.383	4.50	23.781	24.755	31.034	37.109	0.476	13.31	99
150	17.903	36.170	3.32	17.878	26.200	32.612	38.815	0.595	6.89	149
200	14.477	35.693	3.13	14.448	26.628	33.133	39.425	0.677	3.71	199
300	10.329	35.027	3.06	10.293	26.923	33.559	39.974	0.809	2.75	298
400	8.519	34.797	3.03	8.476	27.042	33.739	40.214	0.922	2.00	397
500	7.431	34.696	3.01	7.382	27.126	33.862	40.373	1.027	1.50	497
600	6.401	34.619	3.12	6.346	27.207	33.980	40.528	1.125	1.82	596
800	4.953	34.586	3.55	4.888	27.360	34.187	40.786	1.299	1.34	794
893	4.898	34.642	3.58	4.825	27.412	34.241	40.842	1.373	1.59	886

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
8	28.183	31.898	4.69		0.11	0.0	28.181	20.007	32.271	8
93	26.778	36.341	4.64	2.2	0.23	0.7	26.757	23.808	36.050	92
184	16.192	35.964	2.99	7.3	1.10	15.6	16.163	26.453	39.156	183
293	10.510	35.061	3.02	13.2	1.80	26.1	10.475	26.918	39.957	291
394	8.698	34.817	2.96	17.1	2.09	30.2	8.656	27.030	40.189	392
491	7.453	34.695	2.93	20.9	2.24	33.1	7.404	27.122	40.367	488
595	6.511	34.621	3.01	24.7	2.38	34.7	6.456	27.194	40.507	591
693	5.509	34.567	3.25	28.9	2.48	35.5	5.450	27.279	40.665	687
793	4.946	34.584	3.44	31.7	2.46	35.1	4.881	27.359	40.786	787
895	4.898	34.639	3.52	31.4	2.42	34.4	4.824	27.409	40.839	888

OCEANUS 133 STA-215 LAT= 6 30.9N LON= 52 7.4W SONIC DEPTH= 1645m
DATE 2/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	28.124	30.217	4.79	28.123	18.766	25.013	31.059	0.027	40.35	3
25	28.222	36.198	4.81	28.216	23.227	29.424	35.421	0.149	1.86	25
50	28.102	36.211	4.77	28.090	23.278	29.477	35.476	0.265	2.93	50
75	27.833	36.254	4.75	27.815	23.401	29.604	35.607	0.379	4.27	75
100	25.871	36.406	4.67	25.848	24.144	30.382	36.418	0.488	13.68	99
150	18.549	36.215	3.50	18.523	26.073	32.469	38.656	0.620	7.35	149
200	15.357	35.852	3.14	15.326	26.558	33.038	39.306	0.706	4.66	199
300	9.827	34.961	3.06	9.793	26.957	33.609	40.040	0.834	2.33	298
400	8.365	34.778	3.02	8.323	27.051	33.753	40.233	0.945	1.53	397
500	6.990	34.656	3.00	6.943	27.156	33.908	40.434	1.049	1.79	497
600	6.296	34.603	3.06	6.242	27.208	33.985	40.536	1.145	1.47	596
800	5.055	34.574	3.43	4.989	27.339	34.163	40.758	1.323	1.45	794
1000	4.842	34.718	3.71	4.759	27.479	34.310	40.912	1.479	1.64	992
1250	4.870	34.985	4.96	4.764	27.691	34.518	41.117	1.635	1.21	1239
1500	4.420	35.010	5.64	4.295	27.763	34.608	41.224	1.766	1.07	1486
1655	4.136	35.006	5.93	4.000	27.791	34.647	41.274	1.841	0.76	1639

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	28.079	29.840	4.84	16.8	0.10	0.0	28.079	18.497	30.798	4
94	27.647	36.265	4.72	1.9	0.15	0.2	27.625	23.471	35.684	93
195	15.935	35.924	3.12	6.8	1.04	15.5	15.904	26.482	39.199	194
291	10.018	34.997	2.97	13.8	1.80	26.3	9.984	26.953	40.024	290
391	8.526	34.791	2.99	17.3	2.01	30.0	8.484	27.036	40.207	388
492	7.161	34.661	3.08	21.6	2.22	33.1	7.113	27.136	40.402	489
591	6.379	34.603	3.30	24.5	2.32	34.4	6.325	27.197	40.519	587
692	5.691	34.574	3.25	27.8	2.39	35.0	5.631	27.262	40.635	687
791	5.060	34.568	3.40	30.8	2.41	35.0	4.995	27.333	40.753	785
889	4.870	34.617	3.55	31.5	2.37	34.3	4.797	27.395	40.827	882
991	4.840	34.715	3.74	30.0	2.23	32.3	4.759	27.477	40.910	983
1087	4.996	34.848	4.42	25.8	1.97	28.8	4.904	27.566	40.985	1078
1188	4.914	34.936	5.71	22.3	1.75	25.1	4.813	27.646	41.070	1178
1290	4.788	34.994	5.46	18.9	1.53	22.1	4.678	27.708	41.140	1279
1389	4.613	35.000	5.47	17.5	1.46	21.0	4.496	27.733	41.179	1376
1487	4.463	35.003	5.59	16.7	1.40	20.3	4.339	27.752	41.210	1473
1579	4.218	35.007	5.81	15.9	1.34	19.4	4.088	27.783	41.259	1565
1656	4.128	35.001	5.89	15.7	1.33	19.2	3.991	27.788	41.272	1641

OCEANUS 133 STA-216 LAT= 6 34.1N LON= 52 6.5W SONIC DEPTH= 2160m
DATE 2/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	28.118	30.445	4.39	28.117	18.938	25.184	31.228	0.0093	36.59	1
25	28.232	36.194	4.68	28.226	23.220	29.417	35.414	0.1493	0.963	25
50	28.166	36.1943	4.72	28.155	23.244	29.4423	35.440	0.2653	2.663	50
75	27.904	36.2583	4.58	27.886	23.380	29.5823	35.584	0.3803	4.693	75
100	26.561	36.3793	4.57	26.538	23.9073	30.1323	36.156	0.4913	13.44	99
150	19.004	36.2883	3.44	18.977	26.0133	32.3983	38.574	0.6303	8.243	149
200	14.684	35.731	3.073	14.654	26.6123	33.1123	39.398	0.7153	4.623	199
300	9.564	34.9253	2.943	9.530	26.9743	33.634	40.074	0.8413	2.183	298
400	8.242	34.767	3.02	8.201	27.0613	33.768	40.252	0.9513	1.603	397
500	7.2343	34.6763	2.963	7.186	27.1383	33.880	40.398	1.0543	1.713	497
600	6.3543	34.6073	2.993	6.299	27.2043	33.9793	40.528	1.151	1.56	596
800	5.0883	34.5883	3.393	5.022	27.3473	34.1693	40.763	1.329	1.58	794
1000	4.9313	34.6993	3.583	4.848	27.4543	34.2823	40.881	1.4853	1.643	992
1250	4.8993	34.9803	4.90	4.792	27.6843	34.5103	41.108	1.6423	1.353	1239
1500	4.3753	35.0103	5.683	4.250	27.7683	34.614	41.2323	1.7733	1.033	1486
1750	4.0743	35.0033	5.943	3.930	27.7963	34.656	41.2853	1.8923	0.713	1733
2000	3.787	34.993	6.05	3.6223	27.820	34.691	41.3323	2.009	0.483	1979
2179	3.623	34.987	5.99	3.4443	27.832	34.711	41.3593	2.0923	0.80	2156

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
3	28.125	34.511	4.71	1.73	0.13	0.53	28.125	21.9883	34.2123	3
94	27.641	34.456	3.34	7.73	0.15	0.23	27.619	22.1123	34.3543	93
193	15.128	34.474	3.03	13.73	1.15	17.2	15.099	25.5463	38.3323	192
292	9.9363	34.548	3.02	17.63	1.79	26.43	9.902	26.6163	39.701	290
392	8.3803	34.6783	2.93	21.33	2.04	30.33	8.338	26.9703	40.1533	390
493	7.2113	34.843	3.00	25.0	2.243	33.33	7.163	27.2733	40.531	490
594	6.382	30.4933	3.20	28.03	2.363	34.9	6.332	23.9543	37.3693	589
693	5.580	30.4053	3.403	30.43	2.433	35.5	5.525	23.9783	37.4543	688
793	5.095	35.7863	3.613	31.53	2.413	35.1	5.027	28.2963	41.6843	787
891	4.782	34.9723	3.613	29.7	2.373	34.2	4.709	27.6873	41.117	884
990	4.918	34.7793	4.02	25.73	2.273	32.8	4.835	27.519	40.9453	983
1092	5.019	34.6713	5.09	18.9	2.023	29.1	4.927	27.423	40.8453	1083
1289	4.803	34.6063	5.813	16.1	1.583	22.2	4.694	27.3983	40.838	1278
1491	4.374	34.5543	5.953	15.73	1.373	19.9	4.252	27.4053	40.8803	1478
1695	4.074	34.5743	5.973	16.13	1.323	19.13	3.936	27.4543	40.952	1679
1896	3.866	34.5893		16.93	1.313	19.03	3.7123	27.4893	41.0043	1877
2092	3.756	34.705	6.04	18.23	1.313	19.03	3.5843	27.5943	41.1163	2070
2180	3.592	34.8373	6.09		1.333	19.03	3.4143	27.7163	41.2483	2156

OCEANUS 133 STA-217 LAT= 6 44.4N LON= 52 5.9W SONIC DEPTH= 2868m
DATE 2/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	M	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	27.969	32.529.	4.20	27.968	20.550	26.782	32.811	0.007	27.38	1
25	28.144	36.064.	4.76	28.138	23.152	29.351	35.350	0.134	2.08	25
50	28.250	36.174	4.68	28.238	23.202	29.399	35.395	0.252	1.91.	50
75	27.758	36.199.	4.58	27.740	23.384	29.589	35.594.	0.368	5.92.	75
100	27.099	36.361	4.46	27.076	23.721	29.936	35.952.	0.479	11.78.	99
150	20.462	36.284	3.96	20.434	25.627	31.978	38.122.	0.639	9.52	149
200	14.204	35.639	2.94	14.175	26.645	33.159	39.459	0.731.	4.72.	199.
300	9.595	34.925	3.03	9.561	26.968	33.628	40.067	0.856.	2.26.	298
400	8.127	34.757	3.02	8.086	27.071	33.781	40.269.	0.966.	1.75.	397.
500	6.961	34.632	3.31	6.914	27.141	33.894	40.422.	1.068.	1.58	497.
600	6.192	34.592.	3.16	6.139	27.213	33.994	40.548.	1.165.	1.42	596
800	5.112	34.559	3.49	5.045	27.321	34.142	40.736	1.343.	1.49.	794
1000	4.956	34.671	3.46	4.872	27.430	34.257	40.855	1.503.	1.58	992
1250	4.980	34.960	4.66	4.873	27.659	34.482	41.078.	1.669.	1.53	1239
1500	4.494	35.008	5.50	4.368	27.753	34.595	41.208	1.802	0.97	1486.
1750	4.048	35.003	5.92	3.904	27.799	34.659	41.290.	1.923	0.78	1733
2000	3.701	34.990	6.01	3.537	27.826	34.701	41.345.	2.039.	0.62	1979.
2500	3.131	34.961	6.00	2.928	27.861	34.760	41.428.	2.262.	0.69	2471
2901	2.793	34.941	5.97	2.557	27.878	34.792	41.475.	2.433.	0.58	2865

PR	T	S	O2	SIL	PHOS	NO3	θ.	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C.	kg/m3	kg/m3	m
1	27.978	33.625	4.72	7.6	0.12	0.0	27.978	21.370	33.613.	1
97	27.580	36.254	3.06	2.1	0.14	0.1	27.558	23.485	35.700	96
244	11.502	35.199	2.87	11.4.	1.56.	23.1	11.471	26.844	39.820	242
397	8.470	34.794	3.28	17.7.	2.04.	30.7	8.429	27.047	40.222	394
495	7.022	34.635	3.11	21.3.			6.975	27.135	40.411.	492
593	6.274	34.596	3.21	24.8.	2.33	34.2	6.220	27.205	40.535	589
693	5.666	34.561	3.54	27.7.	2.39	34.9	5.606	27.255	40.630	688
795	5.123	34.549	3.39	30.2	2.36	34.3	5.057	27.311	40.726	789
894	4.994	34.616	3.46	31.1	2.39	34.6	4.920	27.380	40.804	887
996	4.951	34.670.	3.86	30.6	2.33	33.6	4.868	27.429	40.855	988
1095	5.000	34.806.	4.40	27.3.	2.10	30.3	4.907	27.532	40.952	1086
1192	5.042	34.917.	5.29	23.0	1.82	26.2	4.940	27.617	41.032	1182
1397	4.661	34.999	5.75	17.8	1.49	21.4.	4.543	27.727	41.169	1385
1595.	4.324	35.009	5.94	15.6.	1.35	19.4.	4.191	27.773	41.242	1580
1797	3.998	35.000.	6.01	15.7	1.31	18.8.	3.850	27.802	41.297	1779.
2001.	3.699	34.989.		17.1.	1.31	18.7.	3.536	27.825	41.344	1981
2204.	3.516	34.983.	6.04	18.6.	1.32	18.8.	3.336	27.840	41.375	2180
2401.	3.282	34.969.	6.07	20.9	1.34.	18.9.	3.087	27.852	41.407	2374
2600.	3.073	34.956.	6.06	23.3.	1.35	19.1.	2.862.	27.863	41.435	2569
2900.	2.791	34.939.	0.00	26.9.	1.38	19.3.	2.555	27.876	41.474	2864.

OCEANUS 133 STA-218
DATE 2/ 5/83

LAT= 6 54.1N LON= 52 3.7W

SONIC DEPTH= 3255m

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	27.989	35.183	4.92	27.989	22.538	28.747	34.756	0.005	10.93	1
25	28.201	36.078	4.74	28.195	23.143	29.341	35.340	0.124	3.16	25
50	28.094	36.049	4.72	28.082	23.159	29.359	35.360	0.243	1.70	50
75	27.692	36.156	4.71	27.675	23.373	29.580	35.586	0.360	8.11	75
100	27.037	36.350	4.55	27.014	23.732	29.949	35.965	0.468	11.27	99
150	19.488	36.289	3.84	19.460	25.889	32.262	38.427	0.626	10.41	149
200	13.678	35.565	2.95	13.649	26.699	33.228	39.542	0.709	4.20	199
300	9.979	34.978	2.99	9.944	26.945	33.592	40.019	0.832	2.02	298
400	8.144	34.741	3.25	8.102	27.055	33.766	40.253	0.943	1.70	397
500	7.331	34.696	2.90	7.283	27.140	33.879	40.393	1.046	1.61	497
600	6.430	34.614	3.04	6.375	27.200	33.972	40.518	1.144	1.49	596
800	5.284	34.558	3.27	5.217	27.300	34.115	40.703	1.324	1.26	794
1000	4.688	34.605	3.62	4.607	27.407	34.245	40.854	1.488	1.56	992
1250	4.978	34.934	4.43	4.871	27.638	34.462	41.058	1.657	1.49	1239
1500	4.515	35.007	5.46	4.389	27.750	34.592	41.204	1.793	0.98	1486
1750	4.032	35.002	5.92	3.888	27.800	34.661	41.292	1.915	0.86	1733
2000	3.690	34.990	6.02	3.527	27.826	34.702	41.346	2.030	0.75	1979
2500	3.088	34.958	6.01	2.887	27.862	34.764	41.433	2.249	0.62	2471
3000	2.677	34.933	6.02	2.433	27.882	34.802	41.489	2.460	0.55	2962
3291	2.555	34.925	6.03	2.284	27.889	34.815	41.508	2.582	0.46	3247

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	27.988	35.363	4.74	3.3	0.12	0.0	27.988	22.674	34.889	1
100	27.011	36.323	4.54	2.0	0.18	0.3	26.988	23.721	35.955	99
201	13.721	35.567	3.02	9.1	1.33	20.2	13.692	26.691	39.532	199
300	9.891	34.973	2.97	14.2	1.80	26.8	9.856	26.956	40.035	299
358	8.638	34.806	3.12	16.9	1.95	29.1	8.600	27.030	40.193	356
484	7.433	34.805	2.97	20.7	2.18	32.7	7.385	27.211	40.455	481
597	6.327	34.603	3.12	25.0	2.33	34.7	6.273	27.204	40.530	593
699	5.573	34.556	3.25	28.2	2.40	35.2	5.513	27.263	40.644	694
798	5.265	34.555	3.25	30.1	2.44	35.7	5.198	27.299	40.704	792
1003	4.678	34.612	3.63	32.3	2.34	34.1	4.597	27.413	40.861	994
1197	5.072	34.920	4.35	23.3	1.83	26.6	4.969	27.616	41.028	1187
1396	4.663	34.997	5.25	18.0	1.49	21.6	4.545	27.725	41.167	1383
1596	4.327	35.007	5.78	15.7	1.35	19.5	4.194	27.771	41.240	1581
1797	3.932	34.996	6.00	15.9	1.31	18.9	3.785	27.805	41.305	1779
1999	3.701	34.987	6.08	17.2	1.30	18.8	3.538	27.823	41.342	1979
2190	3.434	34.981	6.08	19.3	1.32	18.9	3.257	27.846	41.387	2166
2597	2.990	34.950	6.04	24.2	1.35	19.3	2.780	27.865	41.445	2566
2806	2.836	34.939	6.10	26.6	1.37	19.4	2.609	27.872	41.465	2772
3001	2.675	34.929	6.15	28.0	1.37	19.4	2.431	27.879	41.487	2963
3208	2.586	34.923	6.17	29.2	1.37	19.3	2.322	27.884	41.500	3165
3295	2.552	34.920	6.14	29.2	1.37	19.2	2.281	27.885	41.505	3251

OCEANUS 133 STA-219 LAT= 7 11.9N LON= 52 2.6W. SONIC DEPTH= 3432m
DATE 2/ 5/83

PR	T	S	OZ	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
3	28.008	35.717	4.67	28.008	22.934	29.138	35.142	0.015	1.76.	3
25	28.205	36.028	4.68	28.199	23.105	29.303.	35.302	0.122	5.39.	25
50	28.138	36.123	4.68	28.127	23.200	29.399.	35.398	0.240.	2.25.	50
75	27.774	36.135	4.70	27.756.	23.330	29.535.	35.541	0.357.	6.71.	75
100	26.884	36.317	4.49	26.861.	23.756	29.976.	35.995	0.466.	8.56	99
150	20.159	36.310	3.88	20.131.	25.727	32.085.	38.235	0.637.	11.35	149
200	13.521	35.555	2.86	13.492.	26.723	33.257.	39.576	0.725	4.82	199
300	9.340.	34.898	3.02	9.306	26.989	33.658.	40.105	0.844.	1.91	298
400	7.949.	34.727	3.27	7.908	27.073	33.790.	40.284.	0.953	1.71	397
500	7.149.	34.669.	3.16	7.101	27.144	33.890.	40.411.	1.055.	1.60.	497
600	6.385	34.607	3.13	6.330	27.200	33.974	40.522.	1.152.	1.34.	596
800	5.356	34.567.	3.26	5.288	27.298	34.111	40.696.	1.334	1.33.	794
1000	4.909.	34.624.	3.49	4.827	27.398	34.227	40.828.	1.500	1.54.	992
1250	5.020	34.931.	4.39	4.913	27.631	34.453.	41.047.	1.675	1.64.	1239
1500	4.480	35.013	5.55	4.355	27.759	34.602.	41.215.	1.812	1.15.	1486
1750	4.001	35.000	5.94	3.858	27.801	34.663.	41.295.	1.931.	0.75.	1733
2000	3.684	34.988.	6.01	3.521	27.826	34.701.	41.346.	2.046.	0.76.	1979
2500	3.059	34.956	6.01	2.858	27.863	34.765.	41.436.	2.265.	0.63.	2471
3000	2.617	34.929	6.04	2.374	27.884	34.806.	41.496.	2.473.	0.46.	2962
3475	2.534	34.921	6.03	2.243	27.889	34.817.	41.512.	2.671.	0.29.	3427

PR	T	S	OZ	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
10	28.024	35.748	4.67	2.2	0.09	0.0	28.022	22.952	35.160	10
92	27.246	36.245.	4.67	1.8	0.12	0.0.	27.225.	23.586	35.813	91
232	11.080	35.158	2.81	12.2.	1.66	24.8	11.051.	26.890	39.892	231
390	8.176	34.738.	3.35	17.6.	1.97.	29.0	8.136	27.048	40.243	388
592	6.470.	34.611	3.05	24.3.	2.30.	34.1	6.416	27.192	40.507	587
792	5.375	34.566.	3.18	29.3.	2.42.	35.4	5.307	27.295	40.691	786
993	4.937	34.624	3.52	31.2	2.38.	34.3	4.855	27.394	40.822	985
1195	5.058	34.865	4.03	25.3.	1.97.	28.6	4.956	27.574	40.989	1185
1393	4.775	34.993	5.06	18.8	1.53.	22.1	4.656	27.709	41.144.	1380
1594	4.268	35.006	5.73	15.7	1.35.	19.5	4.136	27.777	41.250.	1579.
1793	3.954	34.998	5.91	15.8	1.31.	18.9	3.807	27.805	41.303	1776
1991	3.721	34.986	5.97	17.2	1.32.	18.9	3.559	27.820	41.338	1971
2191	3.396	34.974	6.03	19.7	1.32.	18.9	3.220	27.844	41.388	2167
2395	3.153	34.963	6.05	22.3.	1.34.	19.2	2.961	27.859.	41.424	2368
2594	2.974	34.951	6.03.	24.9	1.36	19.4	2.766	27.867	41.448	2564
2797	2.747.	34.937	6.04	27.3	1.37.	19.5	2.523	27.878.	41.478	2763
2997	2.618.	34.926	6.11.	28.0	1.36.	19.2	2.376.	27.882	41.494	2959
3200	2.567.	34.922	6.12.	28.4	1.36	19.2	2.305.	27.884.	41.502	3158
3348	2.553	34.921	6.12	28.6	1.36.	19.2	2.276.	27.886.	41.506	3303
3476	2.535.	34.919	6.16	28.9.	1.36.	19.2	2.245.	27.887.	41.510	3428

OCEANUS 133 STA-220
DATE 2/ 5/83

LAT= 7 29.9N LON= 52 0.7W

SONIC DEPTH= 3465m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cdh	DE m
3	28.146	35.957	4.61	28.146	23.069	29.269	35.269	0.014	4.84	3
25	28.149	36.060	4.68	28.143	23.147	29.346	35.346	0.119	1.48	25
50	28.168	36.089	4.69	28.156	23.165	29.363	35.362	0.237	2.43	50
75	27.489	36.174	4.72	27.472	23.452	29.662	35.672	0.353	8.36	75
100	26.695	36.297	4.36	26.672	23.802	30.025	36.048	0.459	7.93	99
150	21.071	36.372	3.87	21.042	25.529	31.865	37.996	0.635	11.78	149
200	13.042	35.476	2.89	13.014	26.760	33.308	39.641	0.723	4.62	199
300	9.306	34.887	3.09	9.273	26.986	33.656	40.104	0.843	1.82	298
400	8.138	34.753	3.03	8.096	27.065	33.776	40.263	0.952	1.60	397
500	7.300	34.678	3.04	7.251	27.130	33.871	40.386	1.056	1.45	497
600	6.590	34.622	3.16	6.535	27.185	33.951	40.492	1.155	1.53	596
800	5.365	34.558	3.32	5.298	27.290	34.103	40.687	1.338	1.27	794
1000	4.806	34.606	3.52	4.724	27.395	34.228	40.833	1.504	1.34	992
1250	5.029	34.916	4.28	4.921	27.618	34.440	41.034	1.684	1.66	1239
1500	4.545	35.006	5.46	4.419	27.746	34.586	41.198	1.824	1.12	1486
1750	4.012	35.000	5.94	3.868	27.800	34.661	41.293	1.946	0.88	1733
2000	3.575	34.983	6.03	3.414	27.832	34.712	41.361	2.060	0.75	1979
2500	3.019	34.952	6.02	2.819	27.864	34.768	41.440	2.275	0.58	2471
3000	2.609	34.928	6.04	2.366	27.884	34.806	41.496	2.483	0.50	2962
3500	2.487	34.917	6.04	2.195	27.889	34.819	41.516	2.691	0.23	3452
3507	2.488	34.917	6.03	2.195	27.890	34.819	41.516	2.694	0.36	3459

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
7	28.303	36.058	5.36	1.0	0.12	0.0	28.301	23.094	35.287	7
94	26.917	36.278	4.75	1.0	0.19	0.7	26.895	23.716	35.955	94
244	10.435	35.053	3.03	12.1	1.70	25.2	10.406	26.923	39.967	242
394	8.102	34.749	3.30	17.5	2.05	30.6	8.062	27.068	40.268	391
591	6.590	34.618	3.10	22.9	2.28	33.9	6.535	27.181	40.489	587
792	5.357	34.554		28.6	2.43	35.4	5.290	27.288	40.686	786
992	4.823	34.603	3.75	31.1	2.40	34.7	4.741	27.390	40.827	984
1192	5.100	34.853	3.95	25.1	2.02	29.4	4.997	27.559	40.972	1182
1391	4.848	35.000	5.07	17.6	1.52	22.1	4.728	27.707	41.136	1379
1593	4.335	35.005	5.63	15.6	1.36	19.8	4.203	27.769	41.237	1578
1791	3.932	34.998	5.94	15.3	1.30	18.9	3.786	27.807	41.307	1773
1995	3.581	34.984	5.96	17.6	1.31	18.8	3.420	27.832	41.361	1975
2193	3.292	34.966	5.97	20.5	1.33	19.2	3.117	27.847	41.400	2169
2394	3.120	34.957	5.96	22.3	1.33	19.3	2.928	27.858	41.425	2367
2595	2.967	34.948	5.99	24.8	1.35	19.6	2.759	27.866	41.447	2565
2796	2.749	34.935	6.08	26.7	1.34	19.5	2.524	27.876		2761
2996	2.615	34.926	6.04	27.5	1.34	19.3	2.373	27.882	41.494	2958
3197	2.538	34.919	6.18	28.4	1.35	19.3	2.277	27.884	41.504	3155
3396	2.484	34.916	6.22	29.0	1.35	19.2	2.203	27.888	41.514	3350
3509	2.488	34.916	6.12	29.1	1.35	19.3	2.195	27.889	41.515	3461

OCEANUS 133 STA-221
DATE 2/ 5/83

LAT= 8 0.0N. LON= 51 59.6W

SONIC DEPTH= 3845m

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	28.195	35.902.	4.14	28.194.	23.012	29.211	35.211	0.005	3.50	1
25	28.124.	36.066	4.67	28.119.	23.160	29.359	35.359	0.120	3.91	25
50	28.153	36.122	4.66	28.141.	23.194	29.393	35.392	0.237.	1.81	50
75	28.108	36.144.	4.67	28.090	23.228	29.428	35.427	0.355.	6.75	75
100	26.839	36.250	4.59	26.816.	23.721	29.942	35.963.	0.464.	7.36	99
150	23.491	36.573	4.34	23.460.	24.995	31.278	37.358.	0.647.	9.60	149
200	16.255	35.965	2.90	16.223.	26.440	32.896	39.140.	0.761.	6.65	199
300	9.209	34.871	3.23	9.176	26.989	33.663	40.114.	0.888.	2.14	298
400	8.018	34.709	3.46	7.977.	27.049	33.764.	40.255.	0.998.	1.62	397
500	7.309	34.678	3.03	7.261.	27.129	33.869.	40.384.	1.103.	1.50	497
600	6.620	34.626	3.10	6.564	27.183	33.949.	40.488	1.202	1.43	596
800	5.501	34.561	3.20	5.432	27.276	34.083.	40.663	1.387	1.33	794
1000	5.012	34.633	3.38	4.929.	27.392	34.218.	40.815	1.556	1.44	992
1250	5.018	34.879	4.08	4.911.	27.590	34.413.	41.008.	1.739	1.61	1239
1500	4.620	35.008	5.38	4.493.	27.740.	34.577.	41.186.	1.883	1.26	1486
1750	3.963	34.994.	5.89	3.820.	27.801.	34.664.	41.298.	2.006.	0.91.	1733
2000	3.599	34.981	5.96	3.438.	27.828.	34.707.	41.355.	2.120.	0.72.	1979
2500	3.046	34.956	6.02	2.845.	27.864.	34.767.	41.438.	2.335.	0.51.	2471
3000	2.685.	34.933	6.03	2.441.	27.881.	34.801.	41.488.	2.547.	0.60.	2962
3500	2.368	34.912.	6.10	2.079.	27.895.	34.830.	41.531.	2.752.	0.38.	3452
3895	2.337	34.907	6.04	2.005.	27.897.	34.835.	41.539.	2.916.	0.21.	3838

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	28.174.	35.931.	4.73	2.0.	0.13	0.1	28.173	23.040	35.240	1
105	26.816.	36.251	4.56	1.9.	0.15	0.3	26.792	23.729	35.972.	104
256	10.737.	35.105	3.01	12.6	1.67	24.9	10.706	26.911	39.935.	254
405	8.008	34.705	3.43	17.9.	1.98	29.1	7.967	27.047	40.255.	402
604	6.580	34.621	3.09	23.7.	2.29	34.1	6.524	27.185	40.493.	600
804	5.552	34.564	3.17	28.5.	2.44	35.7	5.482	27.273	40.656.	798
1003	4.984	34.624	3.36	31.1.	2.39	34.8	4.900	27.389	40.813.	995
1205	5.126	34.840	3.76	26.5.	2.08	30.2	5.022	27.546	40.957.	1195
1405	4.888.	34.988	4.96.	19.4.	1.59	22.9.	4.767	27.693	41.119.	1392.
1605	4.308.	35.010	5.70	15.9	1.36	19.6.	4.174	27.776	41.246.	1590
1805	3.855.	34.989	5.89	17.2.	1.33	19.4.	3.709	27.808	41.314.	1787
2004	3.538.	34.977	5.89	19.5	1.33	19.4	3.377	27.831	41.363.	1983
2197	3.315.	34.968	5.97	21.6	1.34.	19.4.	3.139	27.847	41.397.	2173
2409	3.085.	34.957	5.99	23.2.	1.34	19.3.	2.892.	27.861	41.431.	2382
2607	3.007.	34.951	5.99	23.9.	1.34.	19.2.	2.797	27.865	41.443.	2576
2802	2.958.	34.942	5.97.	26.8.	1.36.	19.6	2.631.	27.872	41.463.	2768
3004	2.677.	34.930.	6.00	28.0.	1.36.	19.4.	2.433.	27.880	41.487.	2966
3204	2.499.	34.919.	6.06	30.2.	1.39.	19.6.	2.238.	27.887	41.511.	3162
3404	2.386.	34.909.	6.11.	30.4.	1.44	19.4.	2.107.	27.890	41.524.	3358
3605	2.340.	34.906.	6.11.	31.8.	1.42.	19.5.	2.040.	27.893	41.533.	3555
3807	2.331.	34.903.	6.11.	32.5.	1.42.	19.6.	2.009.	27.893	41.535.	3752
3899	2.338.	34.904	6.06.	33.4.	1.38.	19.5.	2.006.	27.894	41.537.	3841

OCEANUS 133 STA-222
DATE 2/ 5/83

LAT= 8 30.0N LON= 51 59.0W

SONIC DEPTH= 4680m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	28.115.	35.566	4.79	28.115	22.785	28.988.	34.992	0.005	2.63.	1
25	28.205.	35.984.	4.72	28.199.	23.071	29.270.	35.269	0.125	6.98.	25
50	28.217.	36.110.	4.73	28.205.	23.164	29.362.	35.360	0.243.	2.29	50
75	28.171.	36.176.	4.71	28.153.	23.231	29.429.	35.428	0.361.	6.60.	75
100	26.928.	36.265.	4.51	26.905.	23.704	29.923.	35.942.	0.471.	10.84	99
150	23.041.	36.594.	4.41	23.010	25.142	31.434	37.522	0.640.	5.38	149
200	17.341.	36.147.	3.23	17.307	26.322	32.749	38.965.	0.765	8.01	199
300	10.416.	35.054.	2.87	10.380	26.929	33.561	39.974.	0.897.	1.90	298
400	8.713	34.838.	2.70	8.670.	27.044	33.734	40.202.	1.011	1.75	397
500	7.867	34.744.	2.87	7.816.	27.101	33.821	40.317.	1.118.	1.59	497
600	7.052	34.679.	2.97	6.994	27.167	33.916	40.441.	1.220.	1.50	596
800	5.792	34.598	3.16	5.721.	27.270	34.067	40.636.	1.409.	1.46	794
1000	5.042	34.642	3.37	4.959.	27.396	34.221	40.816.	1.578.	1.51	992
1250	5.055	34.890.	4.10	4.948.	27.594	34.416	41.009	1.757.	1.61	1239
1500	4.548	35.005.	5.41	4.421.	27.745	34.585	41.196.	1.899	1.16	1486
1750	3.953	34.995.	5.85	3.810.	27.802	34.666	41.300.	2.021.	0.95	1733
2000	3.534	34.975.	5.92.	3.374	27.830	34.711	41.362	2.133.	0.68	1979
2500	3.061	34.956.	5.99.	2.860	27.863	34.765.	41.435.	2.349.	0.56.	2471
3000	2.763	34.936.	5.98.	2.517	27.878	34.794.	41.478	2.562.	0.49	2962
3500	2.451	34.915.	6.00.	2.159.	27.891	34.822.	41.520	2.774.	0.52	3452
4000	2.285	34.902.	6.06	1.943.	27.898	34.838.	41.545.	2.985.	0.37	3940
4500	2.048	34.868.	5.90.	1.654.	27.893	34.846.	41.565.	3.200	0.53.	4428
4749	1.679	34.820.	5.60.	1.268.	27.883.	34.853.	41.588.	3.305	0.81.	4670

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
14	28.180	35.806	4.66	2.5	0.12	0.0.	28.176	22.945.	35.147	14
91	27.121	36.241	4.68	2.0	0.13	0.2.	27.100	23.623	35.854	91
243	11.433	35.198	2.88	11.9	1.60	24.0	11.402	26.856	39.837	242
394	8.633	34.821.	2.76	17.7	2.01	30.7	8.591	27.043	40.207	392
591	6.990		2.89	22.7	2.24.	33.6				587
793	5.773	34.591.	3.09	27.8	2.37.	34.9	5.704	27.267	40.634	787
994	5.038	34.642.	3.30	30.9	2.36	34.4	4.954	27.397	40.817	986
1193	5.001	34.825	3.91	26.9.	2.03.	29.7	4.899	27.548	40.969	1183
1392	4.769	34.982.	4.97	19.7.	1.57.	22.8	4.651	27.701	41.136	1379.
1593	4.319	34.997.	5.56	17.1.	1.40	20.2	4.187	27.764	41.233.	1577
1797	3.886	34.993.	5.93	16.6.	1.31	19.0	3.740	27.808	41.311.	1779
1992	3.535	34.972.	5.87				3.375	27.827	41.359.	1971
2294	3.223	34.963.	5.94	22.0	1.33	19.1.	3.040	27.852	41.410.	2268
2595	2.997.	34.951.	5.99	24.6	1.34	19.2.	2.788	27.865.	41.444	2564
2899	2.808.	34.938.	5.97.	27.9.	1.35	19.5.	2.572	27.874.	41.470.	2863
3199	2.642.	34.927	5.94.	32.8.	1.41	20.1.	2.379	27.882.	41.494	3157
3404	2.495.	34.915.	5.96	34.1.	1.41.	20.1.	2.213	27.886	41.512	3358
3603	2.396	34.909.	6.05.	33.8.	1.39.	19.7.	2.095	27.891	41.526.	3553
3801	2.327.	34.905.	6.05.	33.7.	1.40.	19.7.	2.006	27.895	41.538.	3746
3999	2.285.	34.898.	6.05.	35.4.	1.39.	19.7.	1.943	27.895.	41.542.	3939
4201	2.231.	34.893.	6.01.	38.1.	1.43	20.0.	1.867	27.897.	41.551.	4137
4407	2.125.	34.875.	5.97.	45.8.	1.50.	21.3.	1.740	27.892	41.557.	4337
4600	1.921.	34.848.	5.74.	59.0.	1.64.	23.3.	1.520	27.887	41.570	4525
4758	1.680.	34.822.	5.55.	72.1.	1.78.	25.2.	1.268	27.884	41.589.	4679

OCEANUS 133 STA-223 LAT= 9 0.1N LON= 51 56.4W SONIC DEPTH= 4748m
DATE 3/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Oeg C	o/oo	ml/l	Oeg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	28.086	35.145	4.76	28.085	22.478	28.686	34.693	0.016	7.13	3
25	28.236	36.198	4.73	28.230	23.223	29.419	35.416	0.127	8.31	25
50	28.195	36.210	4.71	28.183	23.247	29.444	35.442	0.243	1.03	50
75	28.047	36.207	4.70	28.029	23.295	29.495	35.495	0.360	6.84	75
100	26.648	36.371	4.55	26.626	23.872	30.096	36.119	0.468	10.32	99
150	22.350	36.474	4.30	22.320	25.249	31.557	37.660	0.631	7.63	149
200	16.769	36.145	3.13	16.736	26.457	32.898	39.128	0.740	5.80	199
300	11.240	35.268	2.71	11.202	26.948	33.552	39.938	0.872	2.58	298
400	9.220	34.974	2.74	9.176	27.070	33.742	40.192	0.983	1.82	397
500	7.681	34.755	2.96	7.631	27.136	33.863	40.365	1.086	1.56	497
600	6.700	34.666	2.93	6.644	27.205	33.967	40.503	1.184	1.41	596
800	5.716	34.640	3.05	5.646	27.313	34.112	40.683	1.366	1.48	794
1000	5.029	34.679	3.40	4.946	27.427	34.251	40.847	1.529	1.51	992
1250	5.043	34.925	4.35	4.935	27.624	34.445	41.039	1.701	1.49	1239
1500	4.422	34.985	5.36	4.297	27.742	34.588	41.204	1.840	1.09	1486
1750	3.990	35.000	5.90	3.847	27.802	34.665	41.297	1.962	0.86	1733
2000	3.641	34.988	6.01	3.479	27.830	34.707	41.353	2.076	0.72	1979
2500	3.094	34.958	6.01	2.893	27.861	34.762	41.431	2.293	0.58	2471
3000	2.755	34.937	6.02	2.509	27.879	34.795	41.480	2.506	0.49	2962
3500	2.477	34.915	5.94	2.185	27.889	34.819	41.516	2.719	0.52	3452
4000	2.282	34.900	6.06	1.939	27.897	34.837	41.545	2.931	0.38	3940
4500	2.105	34.875	5.94	1.710	27.895	34.845	41.562	3.147	0.52	4428
4823	1.674	34.818	5.59	1.254	27.882	34.852	41.588	3.283	0.72	4742

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
6	28.069	35.172	6.16	3.8	0.12	0.0	28.068	22.504	34.719	5
103	26.762	36.299	4.61	2.0	0.17	0.3	26.739	23.782	36.026	102
245	13.592	35.701	2.87	8.7	1.26	19.9	13.557	26.823	39.669	243
398	9.214	34.968	2.83	16.6	1.91	29.3	9.169	27.066	40.189	395
596	6.867	34.697	2.93	23.3	2.25	33.8	6.811	27.206	40.493	592
794	5.815	34.634	3.08	28.1	2.39	35.2	5.745	27.296	40.659	788
994	5.090	34.669	3.37	30.5	2.34	34.2	5.006	27.412	40.828	986
1206	5.024	34.878	4.13	24.9	1.92	28.0	4.920	27.588	41.005	1196
1394	4.831	34.997	5.03	18.9	1.53	22.2	4.712	27.706	41.136	1381
1595	4.342	35.003	5.67	15.9	1.35	19.6	4.209	27.767	41.234	1579
1800	3.915	34.995	5.97	16.1	1.30	18.9	3.768	27.806	41.308	1782
2095	3.454	34.975	6.01	19.5	1.32	19.0	3.285	27.838	41.377	2073
2299	3.245	34.959	6.03	21.5	1.32	19.1	3.060	27.847	41.404	2274
2496	3.079	34.956	6.00	23.4	1.32	19.2	2.878	27.861	41.433	2467
2703	2.903	34.947	6.05	25.1	1.29	19.2	2.685	27.871	41.458	2671
2903	2.794	34.940	6.06	26.4	1.35	19.3	2.558	27.877	41.474	2867
3202	2.642	34.930		29.2	1.38	19.4	2.378	27.885	41.496	3160
3501	2.468	34.913	6.09	34.1	1.31	20.1	2.176	27.888	41.516	3452
3804	2.335	34.906		32.6	1.37	19.4	2.013	27.895	41.537	3748
4106	2.264	34.899	6.06	35.1	1.29	19.7	1.910	27.898	41.548	4043
4302	2.223	34.894	6.01	37.2	1.42	20.0	1.848	27.899	41.554	4235
4505	2.094	34.873	5.92	48.0	1.49	21.7	1.699	27.893	41.562	4432
4744	1.715	34.823	5.61	70.0	1.75	25.0	1.304	27.882	41.584	4666
4825	1.675	34.817	5.56	73.1	1.83	25.5	1.255	27.881	41.587	4744

OCEANUS 133 STA-224 LAT= 9 33.0N LON= 51 59.9W SONIC DEPTH= 4858m
 DATE 3/ 5/83

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
12	27.277	25.8442	5.26	27.277	15.755	22.056	28.1512	0.012	36.37	1
25	28.151	35.249	4.71	28.145	22.536	28.742	34.7482	0.157	13.09	25
50	27.678	36.2412	4.51	27.667	23.440	29.646	35.6522	0.274	6.07	50
75	26.442	36.2932	4.13	26.425	23.877	30.105	36.1322	0.382	8.87	75
100	25.439	36.629	4.49	25.417	24.446	30.691	36.7332	0.477	11.07	99
150	19.436	36.541	3.16	19.408	26.095	32.467	38.6312	0.607	7.89	149
200	14.856	35.862	2.86	14.826	26.676	33.170	39.4512	0.688	4.28	199
300	10.515	35.150	2.68	10.478	26.986	33.614	40.0232	0.812	2.15	298
400	8.705	34.8932	2.67	8.662	27.088	33.778	40.2452	0.9212	1.85	397
500	7.504	34.7552	2.83	7.454	27.162	33.894	40.4032	1.0222	1.56	497
600	6.558	34.6642	3.01	6.502	27.222	33.989	40.531	1.1182	1.472	596
800	5.367	34.6092	3.242	5.299	27.330	34.142	40.726	1.2952	1.332	794
1000	4.985	34.687	3.402	4.901	27.438	34.264	40.8612	1.4542	1.462	992
1250	5.009	34.9222	4.28	4.901	27.625	34.448	41.043	1.6252	1.49	1239
1500	4.470	34.997	5.362	4.344	27.747	34.590	41.205	1.7632	1.08	14862
1750	4.018	35.002	5.92	3.874	27.801	34.662	41.2942	1.8852	0.88	1733
2000	3.612	34.986	6.00	3.450	27.831	34.709	41.357	1.9992	0.69	1979
2500	3.130	34.960	6.00	2.928	27.860	34.759	41.4272	2.2172	0.55	2471
3000	2.791	34.9392	5.962	2.545	27.877	34.792	41.4752	2.4322	0.50	2962
3500	2.5392	34.9202	5.962	2.246	27.888	34.8162	41.5112	2.6462	0.51	3452
4000	2.325	34.9072	6.082	1.981	27.899	34.838	41.543	2.8602	0.41	39402
4500	2.182	34.886	6.012	1.784	27.897	34.844	41.558	3.078	0.47	4428
4937	1.686	34.820	5.58	1.252	27.883	34.854	41.590	3.2652	0.68	4853

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
4	28.021	34.724	4.81	4.8	0.11	0.0	28.020	22.183	34.4072	4
106	24.564	36.821	4.20	1.7	0.05	1.0	24.541	24.860	37.1762	105
255	11.625	35.310	2.74	11.7	1.58	24.6	11.5922	26.908	39.875	254
406	8.537	34.861	2.81	17.9	1.86	30.5	8.494	27.090	40.259	403
603	6.524	34.654	3.002	24.5	2.30	34.2	6.468	27.219	40.5302	599
804	5.393	34.6062	3.332	29.5	2.40	35.02	5.325	27.325	40.719	798
1005	4.988	34.682	3.442	30.4	2.30	33.5	4.904	27.434	40.858	996
1202	5.040	34.876	4.152	24.9	1.79	27.82	4.937	27.584	41.001	1192
1403	4.772	35.000	5.152	18.3	1.51	21.7	4.652	27.715	41.150	1390
1605	4.342	35.010	5.63	15.7	1.342	19.4	4.208	27.772	41.240	15892
1801	3.912	34.9962	5.91	16.2	1.312	18.92	3.765	27.807	41.309	1783
2102	3.453	34.9792	5.992	19.32	1.312	18.82	3.284	27.842	41.381	2079
2403	3.199	34.967	5.87	21.8	1.28	18.82	3.005	27.858	41.419	2375
2692	2.991	34.950	5.94	25.32	1.232	18.92	2.772	27.866	41.446	2659
3006	2.797	34.9382	5.98	28.42	1.27	19.32	2.550	27.876	41.474	29682
3306	2.648	34.9292	6.062	28.82	1.332	19.02	2.373	27.884	41.496	3262
3611	2.484	34.9152	6.042	32.42	1.352	19.32	2.180	27.889	41.517	3560
3810	2.389	34.9072	6.012	34.22	1.162	19.62	2.066	27.892	41.529	37542
4007	2.322	34.9052	6.12	33.62	1.282	19.42	1.978	27.897	41.542	3947
4209	2.285	34.900	6.28	33.72	1.222	19.32	1.918	27.898	41.548	4144
4409	2.226	34.891	6.04	39.7	1.32	19.82	1.838	27.897	41.554	43392
4613	2.0962	34.8722	5.91	49.0		21.22	1.688	27.894	41.563	4537
4813	1.7502	34.8272	5.72	69.22	1.62	23.8	1.329	27.884	41.584	4733
4941	1.685	34.828	5.55	70.8	1.67	24.72	1.251	27.890	41.596	4857

OCEANUS 133 STA-225 LAT= 10 1.5N LON= 52 0.0W SONIC DEPTH= 4915m
DATE 3/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1	27.631	31.458	3.80	27.631	19.855	26.101	32.145	0.008	18.82	1
25	27.970	34.870.	4.66	27.964	22.311	28.523	34.534.	0.154.	14.24	25
50	26.486	36.215	4.60	26.475	23.803	30.031	36.057	0.272.	9.55	50
75	24.791	36.468	4.12	24.775	24.522	30.780	36.835	0.368.	11.25	75
100	22.405	36.735	3.85	22.385	25.429	31.733	37.833	0.442.	9.50	99
150	16.493	36.096	3.01	16.469	26.483	32.931	39.168	0.542.	5.99	149
200	12.508	35.451	2.71	12.481	26.846	33.411.	39.758	0.612.	3.10	199
300	10.055	35.059	2.53	10.020	26.995	33.639	40.062	0.730	1.86	298
400	9.059	34.932	2.62.	9.014	27.063	33.741	40.197	0.840.	1.67	397
500	7.911	34.814.	2.69.	7.860	27.149	33.867	40.361	0.943.	1.61	497
600	7.005	34.725	2.82.	6.948	27.209	33.960	40.486	1.041.	1.56	596
800	5.500	34.631	3.13.	5.431	27.332	34.139	40.718	1.219.	1.43	794
1000	4.916	34.682.	3.49.	4.833	27.442	34.271	40.871	1.378.	1.40	992
1250	4.995	34.894	4.20.	4.888	27.604	34.428	41.024	1.551	1.47	1239
1500	4.563	35.009	5.42.	4.437	27.747	34.586	41.197	1.693.	1.20	1486
1750	3.928	34.991	5.86.	3.786	27.802	34.667	41.302	1.814.	0.88.	1733
2000	3.580	34.982	6.00.	3.419	27.831.	34.710	41.359	1.928.	0.68.	1979
2500	3.103	34.956	5.98.	2.901	27.859.	34.760	41.428.	2.145.	0.55.	2471
3000	2.818.	34.939	5.97	2.571	27.875	34.789	41.471	2.361.	0.48.	2962
3500	2.568	34.921.	5.97.	2.274	27.886.	34.813	41.506	2.578.	0.50.	3452
4000	2.342	34.903	6.03.	1.998	27.895	34.833.	41.538	2.794.	0.40.	3940
4500	2.224	34.889.	6.01	1.825	27.896	34.842	41.554	3.014.	0.46.	4428
4985	1.691.	34.818	5.61.	1.251	27.882	34.853	41.589	3.225.	0.72.	4900

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	27.983	33.849	4.86	5.6	0.10	0.0.	27.980	21.538	33.778.	12
97	22.603	36.734	3.69	2.7.	0.27	4.1.	22.583	25.371	37.767.	97
241	11.575	35.294.	2.62.	11.4.	1.62	25.0	11.544	26.905	39.874.	239
393	9.061	34.929	2.67.	16.0.	1.91.	29.4	9.018	27.060.	40.194.	390
595	7.148	34.731	2.82	22.1.	2.24.	33.6	7.091.	27.194.	40.461.	590
789	5.388	34.605.	3.18.	29.0.	2.40.	35.2	5.321.	27.324	40.719.	783
992	4.911	34.680.	3.50.	30.0.	2.27	33.3	4.829.	27.441.	40.870	984
1193	4.946	34.847	3.97.	25.5.	1.84.	28.7	4.844.	27.572.	40.996	1183
1386	4.818	34.991	5.01.	18.4.	1.54.	22.1	4.699	27.703	41.134.	1373
1582	4.351	35.006	5.61	15.2.	1.35.	19.4.	4.218.	27.768.	41.235.	1567
1793	3.848	34.983	5.83.	17.1.	1.35.	19.3.	3.702.	27.804.	41.310.	1775
2093	3.472	34.973	5.92.	19.4.	1.33.	19.0.	3.303.	27.835.	41.373.	2071
2393	3.182	34.960	5.93.	21.7.	1.30.	18.7.	2.990.	27.854.	41.417.	2366
2696	2.971	34.953	5.86.	24.0.	1.29.	18.8.	2.752.	27.870.	41.452	2664
2997	2.817	34.937	5.93.	27.3.	1.33.	19.0.	2.570.	27.874.	41.470.	2959
3288	2.655	34.923	6.00.	31.1.	1.35.	19.4.	2.381.	27.879	41.490.	3244
3599	2.515	34.914	6.04.	31.9.	1.36.	19.2.	2.211.	27.886.	41.511.	3549
3900	2.361	34.901.	5.98.	35.0.	1.35	19.7.	2.028	27.890	41.531	3842
4094	2.318.	34.899	6.05	35.0.	1.35	19.6.	1.964	27.894	41.540	4032
4302	2.276.	34.893	5.99	36.8.	1.37	19.8	1.899.	27.894	41.545	4235
4499	2.222	34.884.	5.92	40.9.			1.823.	27.893	41.551	4426
4702	2.062.	34.862	5.86	51.4	1.44.	21.3.	1.644	27.889.	41.562	4624
4848	1.857.	34.835	5.66	64.1	1.63.	23.4.	1.428	27.883	41.574	4766
4991	1.692.	34.818.	5.55	72.2	1.76.	25.0.	1.252	27.882	41.589	4905

OCEANUS 133 STA-226
DATE 3/ 5/83

LAT= 10 30.0N LON= 52 0.5W

SONIC DEPTH= 4930m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cdh	DE m
1	27.823	32.960	4.06	27.823	20.921	27.151	33.180	0.007	3.50	1
25	27.297	35.695	4.76	27.291	23.150	29.367	35.384	0.158	19.19	25
50	26.679	36.146	4.73	26.668	23.690	29.915	35.939	0.268	7.26	50
75	24.488	36.253	4.59	24.471	24.451	30.716	36.779	0.366	12.80	75
100	22.209	36.915	3.86	22.189	25.621	31.928	38.030	0.438	8.86	99
150	16.456	36.105	2.78	16.432	26.498	32.947	39.185	0.535	6.13	149
200	12.457	35.421	2.45	12.430	26.833	33.399	39.749	0.604	3.01	199
300	9.845	34.995	2.67	9.810	26.981	33.632	40.062	0.723	1.80	298
400	8.540	34.832	2.78	8.497	27.066	33.762	40.235	0.833	1.79	397
500	7.684	34.761	2.78	7.634	27.140	33.866	40.369	0.936	1.55	497
600	6.996	34.718	2.75	6.939	27.205	33.956	40.482	1.034	1.56	596
800	5.330	34.599	3.22	5.263	27.327	34.140	40.726	1.213	1.43	794
1000	4.848	34.662	3.51	4.765	27.434	34.265	40.868	1.372	1.36	992
1250	4.999	34.892	4.21	4.892	27.602	34.426	41.021	1.547	1.47	1239
1500	4.625	35.018	5.47	4.498	27.747	34.584	41.192	1.689	1.16	1486
1750	4.037	35.001	5.88	3.893	27.798	34.659	41.290	1.812	0.93	1733
2000	3.625	34.986	5.99	3.463	27.830	34.708	41.355	1.926	0.71	1979
2500	3.100	34.956	5.96	2.898	27.860	34.760	41.429	2.144	0.55	2471
3000	2.818	34.939	5.95	2.572	27.875	34.789	41.471	2.360	0.49	2962
3500	2.566	34.921	5.92	2.272	27.886	34.813	41.507	2.577	0.50	3452
4000	2.342	34.905	6.03	1.998	27.896	34.834	41.539	2.793	0.42	3940
4500	2.207	34.887	5.98	1.809	27.896	34.842	41.555	3.012	0.45	4428
5000	1.685	34.817	5.56	1.243	27.882	34.853	41.589	3.230	0.73	4914
5011	1.687	34.816	5.57	1.244	27.881	34.852	41.589	3.235	-0.42	4925

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
6	27.901	33.312	4.80	7.1	0.08	0.0	27.899	21.161	33.412	6
96	22.303	36.802	4.15	7.1	0.25	3.7	22.284	25.509	37.915	95
247	10.708	35.137	2.58	12.8	1.73	26.6	10.678	26.941	39.966	245
395	8.528	34.834	2.74	17.5	1.97	30.3	8.486	27.070	40.240	393
594	7.006	34.720	2.76	23.4	2.25	34.0	6.949	27.205	40.482	590
794	5.389	34.600	3.17	29.8	2.38	35.1	5.321	27.321	40.715	788
992	4.827	34.657	3.53	31.5	2.24	33.8	4.745	27.433	40.868	984
1193	4.978	34.844	4.00	26.5	1.93	29.1	4.876	27.566	40.987	1183
1396	4.865	34.992	5.02	19.2	1.54	22.4	4.745	27.698	41.126	1383
1594	4.365	35.008	5.62	16.3	1.33	19.6	4.232	27.768	41.234	1578
1793	3.944	34.996	5.90	16.6	1.30	19.1	3.798	27.804	41.303	1775
1997	3.621	34.984	5.96	18.2	1.30	18.9	3.459	27.829	41.354	1976
2294	3.293	34.968	6.00	21.4	1.30	19.0	3.108	27.850	41.403	2269
2596	3.051	34.951	5.96	25.5	1.31	19.3	2.841	27.861	41.435	2565
2899	2.879	34.942	5.96	27.2	1.34	19.4	2.642	27.871	41.462	2862
3199	2.716	34.929	5.90	32.3	1.35	19.9	2.450	27.878	41.483	3157
3500	2.572	34.920	5.87	33.8	1.38	19.9	2.277	27.885	41.505	3452
3800	2.416	34.908	6.13	34.0	1.36	19.8	2.092	27.891	41.526	3744
4101	2.315	34.904	6.10	34.1	1.35	19.6	1.961	27.898	41.544	4039
4404	2.243	34.892	6.06	39.4	1.40	20.4	1.855	27.897	41.552	4333
4619	2.140	34.877	5.90	46.6	1.42	20.8	1.730	27.894	41.560	4544
4806	1.947	34.851	5.75	58.9	1.57	22.9	1.521	27.889	41.573	4726
4908	1.774	34.831	5.61	68.4	1.69	24.5	1.341	27.886	41.585	4824
5016	1.687	34.818	5.56	74.3	1.78	25.5	1.243	27.883	41.590	4929

OCEANUS 133 STA-227 LAT= 10 59.9N LON= 52 0.5W. SONIC DEPTH= 4960m
DATE 3/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deq C	o/oo	ml/l	Deq C	kg/m3	kg/m3	kg/m3	m	cph	m
3	27.997	31.656.	5.01	27.997	19.885	26.123	32.160.	0.024.	22.34	3
25	27.425	35.871	4.80	27.420	23.241	29.454	35.467	0.158.	11.95.	25
50	26.942	36.079	4.69	26.930	23.555	29.776	35.796.	0.271.	9.50.	50
75	24.748	36.232	4.64	24.732	24.356	30.617	36.675	0.371.	11.17	75
100	21.373	36.251	3.53	21.354	25.350	31.681	37.806	0.448.	9.79	99
150	16.759	36.148.	2.76.	16.734	26.460	32.901	39.131	0.550	6.24.	149.
200	12.786	35.492.	2.46	12.759	26.824	33.379	39.719	0.621.	3.24.	199
300	9.814	34.991.	2.66.	9.779	26.983	33.635	40.067	0.740.	1.82.	298.
400	8.826	34.890	2.55.	8.783	27.067	33.753.	40.217	0.850.	1.67.	397.
500	7.791	34.782	2.82	7.740	27.142	33.864	40.362	0.953.	1.54.	497.
600	7.091	34.735	2.73	7.033	27.206	33.953	40.476	1.051.	1.53.	596.
800	5.612	34.636	3.07	5.543	27.322	34.125	40.700	1.231.	1.43	794.
1000	5.029	34.684.	3.42	4.945	27.431	34.255.	40.851	1.393.	1.47.	992
1250	5.110	34.913	4.23	5.002	27.606	34.425	41.017.	1.566.	1.48.	1239.
1500	4.672	35.008	5.27	4.544	27.734	34.569.	41.176	1.710.	1.19.	1486.
1750	4.094	35.003	5.84.	3.950	27.794	34.653.	41.281	1.834.	0.89.	1733
2000	3.652	34.987	5.96.	3.490	27.828	34.704	41.351.	1.949.	0.72.	1979.
2500	3.117	34.957	5.95.	2.915	27.859	34.759.	41.427.	2.169.	0.57	2471
3000	2.774	34.934.	5.79.	2.528	27.874	34.790.	41.474.	2.384	0.49.	2967
3500	2.544	34.916.	5.83.	2.250	27.884.	34.811.	41.506.	2.600.	0.46	3452.
4000	2.329.	34.901	5.99.	1.985	27.894.	34.832.	41.538.	2.817.	0.43	3940
4500	2.214	34.888.	6.01	1.816	27.897	34.842	41.555.	3.037	0.42	4478.
5000	1.728	34.821	5.64.	1.285	27.882	34.851	41.586	3.256.	0.70	4914.
5039	1.726	34.820	5.58	1.279	27.882	34.851.	41.586	3.273.	-0.12.	4952.

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deq C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deq C	kg/m3	kg/m3	m
3	27.903	31.682	4.80.	10.6.	0.05.	0.0	27.902.	19.935	32.213	3
101	21.105	36.251.	3.37.	3.3.	0.55.	8.0.	21.086.	25.425	37.891.	101
259	10.778	35.151	2.50	13.1	1.73	26.8	10.747.	26.939	39.960	258
405	8.792.	34.879	2.68.	17.6.	2.00.	30.5	8.748	27.064	40.216	402
607	6.945.	34.713	2.76	23.3.	2.26.	34.3	6.887	27.209	40.489.	602
801	5.499.	34.619.	3.17	29.0.	2.38.	35.2	5.430	27.323	40.709	795
1004	5.006	34.693.	3.46.	30.3.	2.27	33.5	4.922	27.441	40.863	996
1208	5.084	34.877	4.09.	24.8.	1.90.	28.0	4.980	27.580	40.993.	1197
1401	4.886	34.993	5.04	19.0.	1.53.	22.4	4.765	27.697	41.123	1388
1603	4.423	35.013.	5.67.	15.6.	1.32	19.4	4.288	27.766	41.227	1588
1803	3.987	35.000	5.92.	16.0.	1.28	19.0	3.839	27.803	41.299	1785
2099	3.523	34.979	5.98.	18.8.	1.29.	18.9	3.353	27.835	41.369	2076
2406	3.186	34.959.	5.94.	23.0.	1.31.	19.2.	2.992.	27.853	41.416	2379
2705	2.959	34.945.	5.92	27.1.	1.34.	19.5	2.739	27.865	41.448	2673
3004	2.776	34.934.	5.82.	32.8.	1.40.	20.4.	2.530.	27.875	41.474.	2965
3305	2.626	34.918.	5.80.	37.3.	1.39.	20.6.	2.352.	27.877	41.491.	3261
3602	2.511	34.913	6.12	36.2	1.38.	20.1	2.207.	27.885	41.511.	3551
3898	2.369	34.901.	6.00.	35.6.	1.38.	20.0.	2.036.	27.890	41.530.	3840
4105	2.299.	34.902.	6.05.	36.6.	1.38.	20.0	1.944.	27.898.	41.545.	4043
4303	2.273.	34.894.	6.10.	35.6.	1.36.	19.6	1.896.	27.895.	41.547.	4236
4500	2.211	34.888.		40.9.	1.36	19.8.	1.813.	27.897.	41.555.	4428
4700	2.101.	34.869.	5.91	49.1.	1.47.	21.4.	1.682.	27.892.	41.561.	4627
4910	1.821.	34.833	5.67	66.2.	1.66.	24.0	1.386	27.885.	41.580	4826
5043	1.727.	34.821.	5.54	77.8.	1.76.	25.2	1.279.	27.883.	41.587.	4955

OCEANUS 133 STA-228
DATE 4/ 5/83

LAT= 11 31.0N LON= 52 0.0W

SONIC DEPTH= 4982m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	27.787	31.455	4.78	27.787	19.802	26.046	32.087	0.024	21.61	3
25	27.256	36.027	4.64	27.250	23.414	29.629	35.643	0.158	12.66	25
50	26.124	36.251	4.74	26.113	23.944	30.178	36.211	0.264	8.66	50
75	25.220	36.265	4.65	25.204	24.237	30.488	36.538	0.360	8.32	75
100	21.881	36.327	3.73	21.862	25.267	31.586	37.700	0.442	11.09	99
150	16.594	36.109	2.70	16.570	26.469	32.915	39.149	0.542	5.93	149
200	13.658	35.633	2.68	13.629	26.755	33.284	39.599	0.615	3.44	199
300	10.744	35.198	2.66	10.708	26.983	33.603	40.005	0.736	2.11	298
400	9.297	34.993	2.61	9.252	27.072	33.742	40.189	0.846	1.65	397
500	8.455	34.901	2.64	8.402	27.135	33.834	40.310	0.951	1.57	497
600	7.231	34.757	2.77	7.172	27.203	33.946	40.463	1.050	1.57	596
800	5.825	34.666	3.00	5.754	27.320	34.114	40.682	1.231	1.44	794
1000	5.315	34.748	3.26	5.229	27.448	34.261	40.846	1.391	1.49	992
1250	5.107	34.921	4.25	4.999	27.613	34.432	41.024	1.563	1.46	1239
1500	4.635	35.019	5.39	4.508	27.747	34.584	41.192	1.705	1.17	1486
1750	4.017	35.002	5.89	3.874	27.801	34.663	41.294	1.827	0.90	1733
2000	3.602	34.986	5.98	3.440	27.832	34.710	41.358	1.941	0.70	1979
2500	3.104	34.957	5.92	2.903	27.860	34.760	41.429	2.158	0.54	2471
3000	2.783	34.935	5.78	2.537	27.875	34.791	41.474	2.373	0.49	2962
3500	2.568	34.922	5.91	2.274	27.887	34.813	41.507	2.589	0.48	3451
4000	2.349	34.905	5.97	2.005	27.895	34.833	41.537	2.806	0.43	3940
4500	2.226	34.890	6.00	1.827	27.897	34.843	41.554	3.025	0.42	4428
5000	1.750	34.826	5.67	1.306	27.885	34.853	41.586	3.244	0.67	4914
5063	1.747	34.825	5.60	1.295	27.885	34.853	41.588	3.271	0.23	4975

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
17	27.681	32.742	4.92	8.2	0.04	0.0	27.677	20.804	33.072	16
99	21.335	36.332	3.47	3.7	0.54	7.8	21.316	25.423	37.878	99
245	11.761	35.349	2.64	11.9	1.58	24.6	11.729	26.912	39.870	243
395	9.280	34.984	2.64	16.5	1.92	29.5	9.236	27.068	40.186	392
595	7.165	34.739	2.78	22.3	2.20	33.3	7.108	27.198	40.463	591
790	5.826	34.655	2.97	28.2	2.36	35.1	5.756	27.311	40.673	784
991	5.455	34.760	3.19	28.4	2.27	33.7	5.369	27.442	40.829	983
1192	5.106	34.870	4.03	25.4	1.92	28.2	5.003	27.572	40.983	1182
1393	4.818	34.982	4.84	20.1	1.57	23.3	4.699	27.696	41.127	1380
1593	4.403	35.012	5.68	15.8	1.32	19.5	4.269	27.767	41.230	1578
1790	3.958	34.998	5.92	16.0	1.25	18.8	3.811	27.804	41.302	1773
2094	3.505	34.980	6.00	19.1	1.30	19.0	3.336	27.837	41.372	2072
2396	3.194	34.962	5.99	22.7	1.31	19.2	3.001	27.855	41.416	2369
2695	2.974	34.947	5.87	28.5	1.31	19.2	2.755	27.865	41.446	2662
2999	2.788	34.938	5.79	33.7	1.39	20.3	2.542	27.877	41.475	2961
3291	2.648	34.922	5.81	37.8	1.41	20.4	2.375	27.878	41.491	3247
3601	2.515	34.913	5.88	36.9			2.211	27.885	41.510	3550
3903	2.374	34.906	6.02	36.7	1.36	19.8	2.041	27.893	41.533	3845
4104	2.316	34.905	5.93	35.7	1.38	20.1	1.961	27.899	41.545	4047
4307	2.263	34.891	6.05	38.9	1.40	20.2	1.886	27.893	41.546	4239
4504	2.220	34.887	6.00	40.7	1.39	19.9	1.821	27.895	41.553	4431
4705	2.083	34.867	5.86	50.6	1.51	21.6	1.664	27.891	41.562	4627
4897	1.844	34.838	5.65	64.5	1.64	23.7	1.410	27.887	41.580	4813
5069	1.747	34.824	5.63	69.9	1.72	24.8	1.295	27.884	41.587	4981

OCEANUS 133 STA-229 LAT= 11 55.5N LON= 51 59.3W SONIC DEPTH= 5035m
DATE 4/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	27.510	31.076	3.96	27.509	19.606	25.958	31.908.	0.008	28.74	1
25	27.130	36.080	4.73	27.124	23.494	29.711.	35.727.	0.150	6.70	25
50	26.103	36.279.	4.96.	26.092	23.972	30.206.	36.239.	0.256.	8.63.	50
75	25.138	36.269.	4.75	25.122	24.265	30.518.	36.568	0.353	9.30.	75
100	22.739	36.830.	4.02	22.718	25.406	31.702.	37.794.	0.431.	10.02	99
150	18.407	36.461	3.22	18.381	26.297	32.694.	38.882.	0.537.	6.32	149.
200	14.153	35.718	2.55	14.124	26.717	33.231	39.532	0.614.	3.61	199
300	11.277	35.301	2.53	11.239	26.967	33.570	39.955.	0.740.	2.21	299.
400	9.696	35.064	2.54	9.650	27.062	33.717	40.152.	0.852.	1.91	397.
500	8.722.	34.964.	2.45	8.668.	27.143	33.832	40.299.	0.957.	1.64	497
600	7.618	34.839.	2.59	7.557	27.213	33.941	40.445.	1.055	1.60	596
800	6.108	34.733.	2.73.	6.035	27.338	34.121	40.678.	1.235	1.48	794.
1000	5.370	34.790	3.27	5.283	27.475	34.286	40.868.	1.392	1.48.	992
1250	4.999	34.935.	4.25.	4.892	27.637	34.460	41.055	1.559.	1.47	1239
1500	4.513	35.007	5.36.	4.387	27.751	34.592	41.205	1.696.	1.11.	1486
1750	3.919	34.996	5.86	3.777	27.806	34.672.	41.307	1.816.	0.86.	1733
2000	3.582	34.983.	5.96.	3.420	27.832.	34.711.	41.360	1.928.	0.69	1979
2500	3.069	34.955.	5.90.	2.868	27.861.	34.763	41.433	2.144	0.55.	2471
3000	2.759	34.932.	5.72.	2.513	27.875.	34.791.	41.476.	2.358.	0.48.	2962
3500	2.524	34.916.	5.84.	2.231	27.886.	34.814.	41.510.	2.573.	0.50.	3451
4000	2.301	34.899	5.94.	1.958.	27.894	34.834	41.541.	2.788.	0.41.	3940
4500	2.186	34.883.	5.92	1.788	27.895	34.842	41.556.	3.007.	0.44.	4427
5000	1.753	34.825.	5.62	1.309.	27.884	34.852.	41.585	3.225.	0.60.	4914
5113	1.730	34.820	5.57	1.273	27.882	34.852.	41.587	3.273.	0.31.	5024

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
2	27.461	30.838	4.81	10.5.	0.03	0.0.	27.461.	19.443	31.750	2
109	22.755	36.733	4.03	2.2.	0.24	3.2.	22.732.	25.328	37.717	108
252	12.493	35.487	2.64	10.4.	1.49	23.4	12.459.	26.879	39.791.	251
356	10.193	35.128	2.62	14.5.	1.84.	28.4.	10.151.	27.026	40.084.	353
587	7.576	34.831		21.5.	2.20.	33.6.	7.517	27.213	40.447.	583
807	5.953	34.733.	2.85	27.3.	2.37	35.2.	5.880.	27.357	40.708.	800
1000	5.401	34.781.	3.34.	28.0.	2.25	33.0.	5.314.	27.465	40.856.	992
1205	5.076	34.917	4.14.	24.1.	1.89.	27.7.	4.972.	27.613	41.026.	1194
1403	4.678	34.986.	5.05.	19.8.	1.59.	23.0.	4.559.	27.715.	41.156.	1390
1593	4.286	35.008	5.68	15.9	1.33.	19.5.	4.154.	27.776.	41.248.	1578.
1805	3.884	34.993	5.92.	16.7.	1.31	19.1	3.736.	27.808.	41.312.	1787
2003	3.568	34.982	5.99.	18.4.	1.32	19.0.	3.407.	27.832	41.361.	1987
2204	3.312	34.967.	0.00.	21.5.	1.33	19.2.	3.135.	27.846	41.397.	2180.
2399	3.144	34.960.	5.96.	23.1.	1.34	19.3	2.952.	27.858.	41.423.	2372.
2701	2.927.	34.942.	6.83	30.3.	1.41	20.3.	2.708	27.865.	41.450.	2668.
3002	2.750.	34.929.	6.76	35.4.	1.46.	20.9.	2.505.	27.873.	41.474.	2964.
3301	2.621	34.917	6.76	38.2.	1.46.	21.0.	2.347.	27.877	41.491	3257
3605	2.475	34.909	6.86	37.2.	1.43.	20.6.	2.172.	27.885.	41.514.	3554.
3902	2.336.	34.901	6.13	36.5.	1.42	20.3.	2.004.	27.892.	41.535.	3844
4205	2.269	34.896	6.10	36.6.	1.40	19.9.	1.904.	27.896.	41.547	4140
4508	2.184	34.880	5.92	43.5	1.46	20.7.	1.786.	27.892.	41.553.	4435
4713	2.048	34.862	5.86	52.3	1.56	22.1.	1.629	27.890.	41.564.	4635
4906	1.827	34.832.	5.68	65.4	1.65	23.9	1.392.	27.883.	41.578	4827
5115	1.730	34.832.	5.59	67.6	1.71	24.5.	1.273.	27.892.	41.596.	5026

OCEANUS 133 STA-230
DATE 4/ 5/83

LAT= 12 33.4N LON= 52 1.0W

SONIC DEPTH= 5075m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	27.301	34.123	5.37.	27.301	21.964	28.194	34.222	0.018	18.71	3
25	27.188	35.992	5.14.	27.182	23.409	29.626	35.642	0.128	6.22	25
50	26.770	36.142	5.18.	26.758	23.657	29.881	35.903	0.238	8.10	50
75	25.988	36.481	5.24.	25.971	24.162	30.397	36.430	0.338	9.34	75
100	24.741.	37.021	5.00.	24.719	24.957	31.211.	37.263	0.423	8.99	99
150	21.104.	36.856	3.83.	21.075	25.889	32.220.	38.345	0.549	6.29.	149
200	16.774.	36.191	3.05.	16.741	26.492.	32.932.	39.161	0.644	4.88.	199
300	12.861.	35.584	2.84.	12.819	26.882.	33.435.	39.772	0.783	2.97.	298
400	10.197.	35.181	2.55.	10.150	27.068.	33.707.	40.125	0.898	2.14.	397
500	8.648.	34.963.	2.83.	8.594	27.154.	33.845.	40.314	1.002	1.61.	497
600	7.394	34.806.	2.83	7.335	27.219.	33.955.	40.467	1.100	1.53.	596
800	6.193.	34.752.	2.81.	6.119	27.341.	34.121	40.675	1.279	1.43.	794
1000	5.284.	34.748.	3.43.	5.198	27.452.	34.266	40.852	1.439	1.55.	992
1250	5.025.	34.924	4.40.	4.918	27.625.	34.447	41.041.	1.608	1.38	1239.
1500	4.481.	34.990	5.29	4.356	27.741.	34.584	41.197.	1.749	1.19	1486
1750	3.962	34.993	5.89.	3.819	27.800.	34.664	41.297.	1.870	0.87	1733
2000	3.558	34.979	5.99.	3.397	27.830.	34.711	41.361.	1.984.	0.73	1979
2500	3.033	34.951	5.97.	2.833	27.861.	34.764	41.436.	2.199.	0.56	2471
3000	2.744	34.931	5.90.	2.498	27.875	34.792	41.477.	2.412	0.45	2962
3500	2.531	34.914	5.90.	2.238	27.884	34.812	41.507.	2.627.	0.48.	3451
4000	2.312	34.901	6.03.	1.969	27.895	34.834	41.540.	2.843.	0.44.	3940
4500	2.166	34.879	6.02.	1.769.	27.893	34.841	41.555.	3.061.	0.42.	4427
5000	1.884	34.838	5.96	1.435	27.885.	34.848	41.576.	3.282	0.52	4914
5157	1.760.	34.822	5.87	1.297	27.882	34.850.	41.584.	3.350	0.51	5066

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/ka	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
3	27.403	33.869	4.78	5.7	0.15	0.0	27.402	21.740	33.999.	3
95	25.627	36.746	5.16	1.9	0.09.	0.1	25.606	24.476	36.754	94
247	14.208	35.803	2.71	7.9	1.26.	19.7	14.171	26.772	39.583	246
394	10.276	35.194	2.84.	14.8	1.71.	27.1.	10.229.	27.064	40.116	392
594	7.534	34.829	2.73.	21.7	2.16.	32.7.	7.474.	27.217	40.455	589
793	6.243	34.756	2.72	26.7	2.30.	34.8.	6.170.	27.338	40.668	787
990	5.272	34.757	3.33	28.8	2.19.	33.0	5.187	27.461	40.861	982
1193	5.089	34.896	4.27	25.0	1.90.	28.2	4.986	27.595	41.007	1183
1395	4.695.	34.975	4.84	20.9	1.59	23.7	4.577	27.704	41.145	1383
1594	4.237.	34.995	5.47	18.1.	1.40.	20.5	4.105	27.771	41.247	1579
1892	3.751.	34.986	5.78	17.6.	1.29.	18.7.	3.597	27.816	41.331	1873
2196	3.305.	34.966	5.86	22.3.	1.37	19.5	3.130	27.846	41.397	2172
2494	3.040.	34.951	5.82	26.8	1.31	19.2.	2.840	27.861	41.435	2465
2796	2.832.	34.937.	5.89	31.2.	1.33	19.5.	2.606	27.870	41.464	2762
3098	2.687.	34.927.	6.09	35.6.	1.41	20.6.	2.433	27.877	41.485	3057
3399	2.568.	34.918.		38.3.	1.42.	20.9	2.284	27.883	41.502	3353
3697	2.418.	34.906.	6.30	37.4.	1.35.	19.1.	2.106	27.888	41.522	3644
4005	2.319	34.902.	6.20	35.8.	1.36	19.3.	1.975	27.895	41.540	3944
4200	2.257.	34.893	6.34.	37.7		19.2	1.893	27.895.	41.546	4135
4402	2.190.	34.883.	5.95	42.3	1.57	20.3	1.804	27.893.	41.553	4332
4601	2.087.	34.870.	5.80.	49.3	1.53	19.5	1.681	27.892.	41.562	4525
4802	2.007.	34.856	5.90	54.9.	1.52	22.0	1.579	27.889	41.567	4721
5006	1.862	34.840.	5.69.	63.6.	1.83.	23.4	1.414	27.888.	41.581	4919
5164	1.753.	34.821.	5.63	70.9	1.78	23.7	1.289	27.882.	41.585	5072

OCEANUS 133 STA-231 LAT= 13 0.1N LON= 51 59.5W SONIC DEPTH= 5129m
DATE 4/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	σ _f
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
3	27.017	36.009.	4.57	27.017	23.474	29.694	35.713.	0.013	1.49.	3
25	26.980	36.029	4.73	26.975	23.503	29.724	35.743.	0.110	3.32	25
50	26.291	36.358	4.82	26.280	23.972	30.202	36.231.	0.215	7.30	50
75	25.933	36.645.	4.79	25.917	24.303	30.537	36.571	0.311	7.49	75
100	25.322	37.065	4.76	25.299	24.812	31.055	37.096	0.397.	9.44	99
150	21.418	37.026	3.83	21.388	25.931	32.254	38.371.	0.525.	6.85	149
200	17.580	36.373	3.21	17.546	26.437	32.856	39.064.	0.619.	4.73	199
300	12.978	35.616	2.74.	12.936	26.884	33.433	39.766.	0.759.	2.76	298
400	10.431	35.214	2.74	10.383	27.053	33.684	40.094	0.876.	2.26	397
500	8.823	34.982	2.80	8.769	27.141	33.827	40.290.	0.981.	1.67	497
600	7.630	34.835	2.93	7.569	27.208	33.936	40.440.	1.080.	1.65	596
800	5.984	34.698	3.18.	5.912	27.325	34.114	40.675.	1.260.	1.43	794
1000	5.440	34.781	3.51	5.353	27.460	34.268	40.848	1.422.	1.57	997
1250	5.059	34.946.	4.69.	4.951	27.638	34.459	41.052.	1.590.	1.47	1239
1500	4.523	34.995.	5.45.	4.397	27.740.	34.581	41.193	1.729.	1.12	1486
1750	4.004	34.995	5.97.	3.861	27.797	34.659	41.291.	1.852.	0.88	1733.
2000	3.555	34.981	6.11	3.394	27.833	34.713	41.363.	1.965	0.73	1979
2500	3.000	34.951	6.05.	2.800	27.865	34.769	41.442.	2.180.	0.58	2471
3000	2.703	34.930.	5.97.	2.459	27.877	34.796	41.483.	2.390.	0.46	2962
3500	2.487	34.911	5.98	2.195	27.885	34.815	41.512	2.603.	0.47	3451
4000	2.311	34.900.	6.12.	1.968	27.894	34.833	41.540.	2.817.	0.39	3940
4500	2.192	34.882	6.11	1.794	27.893	34.840	41.554.	3.036.	0.44	4427
5000	1.800	34.829	5.90.	1.354	27.884	34.850	41.581	3.256.	0.55	4914.
5119	1.808	34.828	5.86	1.347	27.883	34.850	41.582.	3.307.	0.07	5029

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	σ _f
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
0	27.025	35.977	4.78.	2.0	0.16	0.1	27.025	23.448	35.687	0
99	25.293	37.096	4.85.	1.6.	0.07	0.1	25.271	24.845	37.129.	99
253	14.735	35.891	2.83	7.3.	1.18	18.6	14.697	26.727	39.507.	251
417	9.815	35.122.	2.81	15.5.	1.80.	28.0.	9.766	27.088	40.169	414
602	7.317	34.802	2.72	22.4.	2.19.	33.3.	7.257	27.227	40.480	598
801	5.922	34.698.	3.02	27.8.	2.33.	34.9.	5.851	27.333	40.687.	795
1002	5.393	34.789	3.39.	28.0.	2.14	32.6.	5.306.	27.472	40.863	993
1200	5.108	34.917	4.40.	24.0.	1.85	27.3.	5.004.	27.609	41.019	1190
1400	4.708	34.982.	4.95.	20.4.	1.57.	23.3.	4.590	27.708	41.148.	1387
1596	4.271	34.997	5.57	18.0.	1.43.	20.6.	4.139	27.769	41.242	1580.
1800	3.936	34.995.	5.88.	16.4	1.33	19.0.	3.789	27.804.	41.304	1782.
1998	3.598	34.984	5.94.	18.5.	1.32	19.1.	3.436	27.831	41.358	1977
2298	3.201.	34.963	5.93	22.9.	1.32.	19.2	3.018	27.854	41.414.	2272
2598	2.922	34.947.	5.88	28.9	1.35.	19.8.	2.714	27.869	41.453	2567
2899	2.750	34.933	6.00	33.7	1.40	20.5.	2.515	27.875	41.476	2863
3207	2.611	34.921	5.83.	37.0	1.41.	20.6.	2.347	27.880	41.494	3164
3503	2.482	34.911	6.19	37.6	1.47.	20.5.	2.190	27.885	41.512	3454
3802	2.369	34.905	6.11	34.2.	1.36.	19.5.	2.047	27.892	41.531	3746
4106	2.287	34.897	6.21	36.2	1.36.	19.7.	1.933	27.895	41.543	4043
4405	2.227	34.887	5.97	40.4	1.51.	20.3.	1.840	27.894	41.550	4334
4600	2.130	34.943	5.72	43.3	1.52	20.6.	1.721	27.948	41.613	4524
4812	1.948	34.849.	5.84	59.1	1.60	23.0.	1.520	27.888	41.571	4731.
5021	1.799	34.829.	5.70	68.0	1.78.	24.0.	1.351	27.884	41.582	4934
5130	1.809	34.829.	5.70	68.4	1.77.	24.3.	1.347	27.884	41.582	5040.

OCEANUS 133 STA-232 LAT= 13 29.9N LON= 52 0.0W SONIC DEPTH= 5140m
DATE 4/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deq C	o/oo	ml/l	Deq C	kg/m3	kg/m3	kg/m3	m	coh	m
1.	26.885	36.102.	4.15	26.884	23.587	29.808	35.829	0.004	-2.95	1
25	26.944	36.072	4.67	26.939.	23.547	29.768	35.788	0.108	0.62	25
50	26.802	36.145.	4.71	26.791	23.649	29.872	35.893	0.217	6.92	50
75	25.861	36.610	4.86	25.844	24.300	30.536	36.571.	0.317	9.36	75
100	25.141	37.038	4.83	25.119	24.848	31.094.	37.139	0.401	8.60.	99
150	21.809	37.120.	4.00	21.779	25.893	32.207	38.315	0.533	6.66	149
200	18.315	36.551.	3.58.	18.280	26.391	32.790	38.980.	0.629	4.75.	199
300	12.688	35.525.	2.50	12.647	26.872	33.430	39.772.	0.775	2.95	298
400	10.921	35.264.	2.64	10.871	27.005	33.620	40.016.	0.894	2.12	397
500	9.019	35.008.	2.59.	8.963	27.131	33.809	40.266.	1.002	1.90	497
600	7.896	34.881	2.61	7.835	27.205	33.923	40.417.	1.102	1.53.	596
800	6.067	34.697	3.06.	5.994	27.314	34.099	40.658	1.285	1.47.	794
1000	5.379	34.751.	3.39.	5.293	27.443	34.254	40.836.	1.447	1.48.	997
1250	5.163	34.947	4.32.	5.054	27.627	34.444.	41.033	1.619.	1.56.	1239
1500	4.608	35.008	5.21.	4.480	27.741	34.579	41.188.	1.758	1.03	1486
1750	4.057	35.000	5.64.	3.913	27.796	34.656	41.286.	1.883	0.98	1733
2000	3.595	34.985	5.75.	3.434	27.832	34.711	41.359	1.997	0.76	1979
2500	2.995	34.953	5.78.	2.795	27.867	34.772	41.445	2.210	0.56	2471.
3000	2.690	34.931	5.73.	2.446	27.880	34.799	41.486	2.419	0.46	2962
3500	2.458	34.913.	5.75.	2.166	27.889	34.820	41.518.	2.630	0.47	3451
4000	2.299	34.902.	5.87.	1.956	27.897	34.837	41.543.	2.842	0.35	3940
4500	2.206	34.885	5.83.	1.807	27.895	34.841	41.554	3.060	0.39	4427.
5000	1.819	34.832	5.64.	1.373	27.885	34.850	41.581.	3.281	0.54	4914.
5211	1.784	34.825.	5.61.	1.313	27.883	34.851	41.585	3.372	0.18	5119

PR	T	S	O2.	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deq C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deq C	kg/m3	kg/m3	m
11	26.930	36.068.	4.61	2.0	0.12	0.0	26.928	23.549	35.788	11
93	25.323	37.003	4.83	1.6	0.07	0.0	25.303	24.765	37.049	92
242	15.484	36.068		5.7	0.98	15.0	15.446	26.697	39.435	240
394	10.466	35.189		14.2	1.76.	27.4.	10.419	27.027	40.067	391
594	7.898	34.879.		20.8	2.17	33.3.	7.836	27.204	40.416	590
792	5.950	34.692.	2.95.	27.6	2.33.	35.0.	5.879	27.325	40.677.	786
992	5.324	34.738.	3.32.	28.8.	2.21.	33.3.	5.238	27.440	40.837	984
1192	5.274	34.898	4.06.	24.4	1.88.	28.0.	5.170	27.575	40.973	1182.
1391	4.864	35.000	5.05.	18.7	1.52	22.3.	4.744	27.705	41.132	1378
1592	4.350	35.007	5.59.	17.0	1.43	20.4.	4.217	27.769	41.236	1577
1794	3.934	34.997	5.77.	17.2.	1.39	19.5.	3.787	27.806	41.306	1776.
2094	3.455	34.980	5.88.	20.5	1.36	19.5.	3.287	27.842	41.381	2071
2393	3.078	34.957	5.95.	24.2.	1.36	19.5.	2.887	27.861	41.432	2365
2694	2.858	34.946	5.92.	28.3.	1.36	19.9.	2.642	27.875	41.465	2661
2998	2.687	34.930.	5.96.	32.8	1.41.	20.5.	2.443	27.879	41.485	2959
3298	2.553.	34.918.	5.82.	36.7.	1.44	20.8.	2.280	27.883	41.503	3253
3603	2.413	34.909	6.11.	36.3.	1.48.	20.4	2.111	27.890	41.524	3551
3894	2.327	34.903.	5.07.	35.6.	1.40.	20.0	1.995	27.894.	41.538	3836
4201	2.265	34.895.	5.11	37.9.	1.40.	20.3	1.900	27.896.	41.547	4135
4507	2.208	34.885.	5.95	42.4.	1.55.	20.9.	1.809	27.895	41.554	4434
4702	2.098	34.873	5.88	49.8.	1.66.	21.9.	1.679	27.895	41.565	4674
4902	1.891	34.844	5.80	62.1	1.67.	23.8.	1.455	27.888	41.577	4818.
5103	1.779	34.827.	5.65	69.6.	1.83	24.8.	1.322	27.884	41.585	5013
5217	1.785.	34.826.	5.64	70.4.	1.82	25.1.	1.313	27.884.	41.585	5174

OCEANUS 133 STA-233 LAT= 14 0.0N. LON= 51 59.5W SONIC DEPTH= 5100m
DATE 5/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1	26.709	35.596	4.60	26.708	23.262	29.491	35.518	0.005	9.98.	1
25	26.723	36.236	4.81	26.717	23.742	29.965	35.987	0.105	0.20.	25
50	26.146	36.449	4.96	26.134	24.087	30.319	36.350	0.207	9.66.	50
75	25.474	36.853.	4.97	25.457	24.603	30.844	36.884	0.296	5.71.	75
100	25.072	37.064	4.93	25.050	24.889	31.136	37.182.	0.377	7.30	99
150	22.524	37.181	4.29	22.494	25.737	32.035	38.128.	0.511	6.59	149
200	17.770	36.362	3.14	17.736	26.382	32.796	39.000	0.611	5.54	199
300	11.933	35.396	2.52	11.893	26.918	33.500	39.865.	0.750	2.65.	298
400	10.107	35.127	2.55	10.060	27.041	33.683	40.105.	0.865.	2.00.	397
500	8.788	34.967	2.59	8.733	27.135	33.822	40.286	0.970	1.42.	496
600	7.862	34.849	2.67.	7.801	27.185	33.905	40.401	1.071	1.54	596
800	6.359	34.732	2.71	6.285	27.305	34.079	40.627	1.257	1.48.	794
1000	5.433	34.742	3.14	5.346	27.430	34.238	40.819	1.422.	1.55.	992
1250	5.186	34.958	4.43.	5.077	27.633	34.449	41.037	1.595	1.48	1239.
1500	4.585	35.004	5.15.	4.458	27.740	34.579	41.189	1.735.	1.16	1486
1750	3.976	34.997	5.66.	3.833	27.801	34.664	41.298.	1.858.	0.92	1733
2000	3.554	34.985.	5.86	3.393.	27.836	34.716	41.366.	1.970.	0.73	1979
2500	2.996	34.954	5.95	2.796	27.867	34.772	41.445	2.183.	0.54	2471
3000	2.717	34.934.	5.83	2.472	27.879	34.798	41.483.	2.392.	0.45	2962
3500	2.492	34.914	5.85	2.199	27.886	34.816	41.513.	2.604.	0.46	3451
4000	2.245	34.891	5.89.	1.904	27.892	34.834	41.543.	2.818.	0.45	3940.
4500	2.003	34.862	5.87.	1.611	27.891	34.846	41.567.	3.033.	0.56	4427
5000	1.748	34.824	5.70	1.304	27.883	34.851	41.585.	3.243.	0.27	4914
5165	1.756	34.822.	5.68	1.292	27.882	34.851	41.586.	3.314.	0.06	5074

PR	T	S	O2	SIL	PHOS	NO3	θ.	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	26.713	36.207	4.78	1.9	0.08	0.1	26.712	23.721	35.968	4
100	25.042	37.075	4.88	1.7.	0.10	0.1	25.020	24.906	37.200.	99
248	13.834	35.699	2.66	8.7.	1.33.	20.9	13.798	26.771	39.604.	246
397	10.172	35.137	2.59	14.6.	1.80.	28.0	10.125	27.038	40.097	394
599	7.902	34.850.	2.64	21.4	2.13.	32.5	7.840	27.180	40.393.	595
799	6.234		2.78	26.7.	2.33	35.1				793
999	5.398	34.749	3.22	29.0	2.25.	33.7	5.311	27.440	40.831	991
1192	5.212	34.891	4.06	24.9.	1.90.	28.1	5.109	27.576	40.980	1182.
1396	4.881	34.992	4.99	19.6.	1.55.	22.7	4.761	27.697	41.123	1383
1594.	4.391	35.005.	5.47	17.2.	1.41.	20.4.	4.258.	27.763	41.227	1578
1795	3.919	34.996.	5.70	17.6	1.36.	19.5.	3.773.	27.807	41.308	1776
1999.	3.579	34.984.	5.83	19.8.	1.35	19.4.	3.418	27.833	41.361	1978
2303	3.201	34.966.	5.71	23.1	1.35	19.3	3.016	27.857	41.417	2277
2594.	2.934	34.952.	5.89	27.0.	1.36	19.7	2.726.	27.872	41.455	2563.
2906.	2.765	34.935	5.83	34.0.	1.44	20.7	2.529	27.876	41.475	2869
3202.	2.642	34.925	5.81	35.8.	1.43	20.8.	2.378	27.881	41.497	3159
3505.	2.508	34.912	6.15	38.4.	1.48	20.8	2.215	27.884	41.509	3455
3804	2.351	34.899	5.89	41.6.	1.47	21.0.	2.029	27.889	41.529	3748
4107	2.207	34.885	5.91.	45.8	1.51.	21.6.	1.855	27.891.	41.546	4044
4410.	2.070	34.869	5.86.	50.8	1.61	22.1	1.687	27.891.	41.560	4339
4608.	1.869	34.846	5.76.	61.9	1.74	23.7.	1.469	27.889	41.577	4577
4803.	1.770	34.833	5.72.	67.3.	1.71	24.6.	1.350	27.887	41.585	4727
5011.	1.745	34.824	5.59.	70.6.	1.79.	25.0.	1.300	27.883	41.586	4924
5171	1.757	34.823	5.64.	71.3.	1.78	25.0.	1.292	27.883	41.586	5079

OCEANUS 133 STA-234
DATE 5/ 5/83

LAT= 14 32.0N. LON= 51 58.9W

SONIC DEPTH= 4135m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1.	26.315	36.201.	4.90	26.314	23.843	30.074	36.104	0.004	-4.36	1
25	26.494	36.362	4.73	26.488	23.909.	30.136	36.161.	0.103	9.12.	25
50	25.720	36.770	4.77	25.708.	24.463	30.700	36.736.	0.195	6.20	50
75	25.324.	36.997	4.75	25.307	24.759	31.002	37.043.	0.278	5.50.	75
100	24.526	37.187	4.57	24.504	25.148	31.405	37.460.	0.355	7.08.	99
150	21.884	37.077	3.78	21.854	25.840	32.152	38.260	0.481.	6.14	149
200	18.374	36.493.	3.16	18.339	26.332	32.730	38.919	0.581	5.53.	199.
300	13.032	35.629	2.59.	12.991	26.883	33.430	39.762	0.724.	2.95.	298.
400	10.234	35.148	2.63.	10.186	27.036	33.674	40.091.	0.840.	1.88.	397
500	8.762	34.947.	2.52	8.708	27.124	33.812	40.277.	0.947	1.78.	496.
600	7.587	34.815.	2.76	7.526	27.199	33.928	40.433	1.046	1.52.	596
800	6.208	34.732.	2.99	6.135	27.323	34.103	40.656	1.230	1.53.	794
1000	5.292	34.751.	3.56	5.206	27.454	34.267.	40.853	1.391	1.56	992
1250	5.209	34.941	4.53	5.100	27.617	34.432	41.020	1.562	1.46	1239
1500	4.547	35.004	5.39.	4.421	27.744	34.584	41.196	1.701	1.13	1486
1750	3.959	34.997	5.85.	3.816	27.803	34.667	41.301.	1.823	0.94	1733
2000	3.517	34.982	5.89	3.357.	27.837	34.719	41.370.	1.935	0.70	1979
2500	3.000	34.951	5.85	2.800.	27.865	34.769	41.442	2.148.	0.52.	2471
3000	2.734	34.932	5.84	2.489	27.877	34.795	41.480	2.358	0.44	2961
3500	2.517	34.914	5.83	2.224	27.884	34.813	41.509	2.573	0.46	3451
4000	2.297	34.899	5.87	1.954	27.895	34.835	41.542	2.788	0.47	3940
4500	2.135	34.878	5.95	1.739	27.894.	34.844	41.559	3.004	0.34	4427
4599	2.060	34.867	5.97	1.654	27.892	34.845	41.564	3.048	0.68	4523

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
0	26.665	36.232.	4.82	1.1	0.08	0.1	26.665	23.755.	36.003	0
104	24.475	37.191	4.66	1.0	0.10	0.1	24.452	25.167	37.480.	103
250	14.166	35.784	2.69	7.2	1.29	19.8	14.130	26.766	39.580	248
405	10.102	35.130	2.65.	13.8	1.80	27.4	10.054	27.045	40.108.	402
602	7.519	34.808	2.71	20.7	2.22	33.3	7.459	27.203	40.442	598
803	6.168	34.729	2.79	25.8.	2.37	35.0	6.095	27.327	40.662	796
1002	5.277	34.747	3.39	27.8	2.24	32.8	5.191	27.452	40.853.	993
1202	5.223	34.897	4.12	23.4.	1.90	27.6	5.118	27.580	40.982	1192
1395	4.835	34.992	4.95	18.6	1.56	22.6	4.716	27.702	41.132	1383
1599	4.336	35.004	5.54	16.2	1.42	20.1	4.203	27.768	41.236	1583
1805	3.894	34.997	5.81	16.6.	1.40	19.3	3.746	27.810	41.313	1786
1997	3.523	34.984	5.88	19.0	1.37	19.3	3.363	27.838.	41.371	1976
2202	3.236	34.966	5.97	21.4.	1.36	19.0.	3.061	27.852	41.409	2178
2401	3.075	34.962	5.95	23.2	1.34.	19.1.	2.883	27.866	41.436	2373
2605	2.943	34.948	5.82	30.1	1.44	20.3.	2.733	27.868.	41.451	2573
2906	2.772.	34.934	5.77	34.2.	1.45	20.6.	2.536	27.874	41.473	2869
3203	2.645	34.924.	5.85	37.0	1.50	20.9.	2.380.	27.880	41.491	3161
3508	2.505	34.911	5.83	39.9.	1.50	21.1	2.211	27.883	41.509	3459
3706	2.415	34.905	5.95	38.3.	1.47	20.7.	2.102	27.887	41.522	3653
3904	2.305	34.894	5.90	41.6.	1.53	20.9.	1.973.	27.889	41.534	3846
4106	2.267.	34.912	6.04	36.3.	1.44.	19.5.	1.913	27.908	41.558	4043
4308	2.175.	34.884	5.99	42.4	1.47	20.6.	1.801	27.894	41.554	4240
4502	2.134	34.879	5.90	46.0	1.53	21.1.	1.738	27.895	41.560	4429
4612	2.013	34.863	5.83	52.3	1.60	21.9	1.607	27.892	41.568	4536

OCEANUS 133 STA-235 LAT= 15 0.0N. LON= 51 58.6W SONIC DEPTH= 4655m
DATE 5/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	26.505	36.329	4.77	26.505	23.879	30.106	36.131	0.004	0.65	1
25	26.492	36.340	4.73	26.487	23.893	30.120	36.145	0.101	4.81	25
50	25.994	36.602	4.87	25.983	24.250	30.484	36.516	0.198	8.69	50
75	25.292	36.981.	4.96	25.275	24.757	31.001	37.043	0.283.	6.97	75
100	24.525	37.208	4.82	24.504	25.164	31.421	37.476.	0.358.	6.74	99
150	22.076	37.161	4.23	22.046	25.849	32.157	38.259.	0.485.	6.46	149
200	19.095	36.680.	3.56	19.059	26.292	32.671	38.841.	0.584.	4.88	199
300	14.425.	35.928.	3.22	14.380	26.824	33.330.	39.621.	0.734.	3.01	298
400	11.239	35.374.	2.74.	11.188	27.033	33.637	40.022.	0.856	2.59.	397
500	9.135	35.068	2.66	9.079	27.159	33.833	40.285.	0.962.	1.75.	496
600	7.620	34.851.	2.76	7.559	27.222.	33.950	40.454.	1.059.	1.56.	596
800	6.137	34.733.	3.05.	6.064	27.334	34.116	40.672.	1.239.	1.48.	794
1000	5.258	34.769	3.52.	5.172	27.472	34.287	40.874	1.397.	1.53.	992
1250	5.022	34.960	4.52.	4.915	27.654	34.476	41.069.	1.562.	1.47	1239
1500	4.467	35.007	5.43.	4.341	27.755	34.599	41.213.	1.697.	1.14	1486
1750	3.955	34.998	5.87.	3.812	27.804	34.668	41.302.	1.817.	0.86.	1733
2000	3.542	34.982	5.94.	3.381	27.834	34.716	41.366.	1.929.	0.72	1979
2500	2.953	34.949.	5.88.	2.754.	27.867	34.774	41.449.	2.141.	0.56	2471
3000	2.725	34.932.	5.85.	2.481.	27.877	34.795.	41.481.	2.349.	0.36	2961
3500	2.540	34.917	5.85.	2.246.	27.885	34.813	41.508.	2.564.	0.51	3451
4000	2.327	34.902.	5.96.	1.983.	27.895	34.834	41.539.	2.779.	0.40	3939
4500	2.222	34.889.	6.01	1.823.	27.896	34.842	41.554.	2.998.	0.32	4427
4721	2.032	34.863	5.93	1.613.	27.892	34.847.	41.568.	3.097.	0.77	4642

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	26.540	36.344	4.74	1.1.	0.07	0.0	26.538	23.880	36.130.	12
96	24.786	37.153	4.87	0.7	0.09	0.0.	24.765	25.043	37.345.	96
242	15.619	35.975	2.71	5.7	1.13	17.4	15.581	26.595	39.327.	240
392	10.828	35.313	2.81.	12.1	1.66.	25.3.	10.779	27.060.	40.075	389
593	7.788	34.872	2.73	19.8.	2.19	32.0.	7.728	27.214.	40.434.	588
793	6.318	34.755.	2.98.	24.9	2.33	33.3.	6.244	27.328.	40.652.	787
993	5.251	34.751	3.50.	27.6	2.26	32.1.	5.166	27.459.	40.861.	985
1194	5.143	34.920	4.32.	22.6.	1.89	26.6.	5.040	27.607.	41.015.	1183
1392	4.726	34.995.	5.03.	18.4.	1.59.	22.4.	4.608	27.716	41.154.	1380
1591	4.211	35.003	5.77	15.5.	1.44	19.5.	4.080	27.780.	41.258	1576
1791	3.871	34.993.	5.88.	16.0.	1.42.	19.0.	3.725	27.809	41.314	1773
2091	3.423	34.977	5.91	19.7.	1.41.	19.2.	3.255	27.843.	41.384	2069
2394	3.055	34.960	5.86	26.8.	1.47	19.8.	2.864	27.866.	41.438	2366
2696	2.829	34.940.	5.81	31.1.	1.48.	20.3.	2.613	27.872.	41.465	2663
3001	2.724	34.929.	5.83	33.5.	1.51.	20.5.	2.479	27.875.	41.479	2963
3198	2.674.	34.924	5.82.	35.1.	1.50.	20.4.	2.410	27.877	41.486.	3155
3401	2.576.	34.919.	5.88.	36.3.	1.55.	20.6.	2.292	27.883.	41.502.	3354
3605	2.467.	34.911.	5.95.	35.6.	1.50.	20.3.	2.164	27.887.	41.517.	3553
3798	2.394.	34.912	6.01	34.8.	1.47	20.0.	2.072.	27.895.	41.532	3742
4000	2.324.	34.899.	6.00	35.7.	1.51.	19.8.	1.980	27.892.	41.537.	3940
4194	2.275.	34.894	6.03	37.4	1.53.	19.8.	1.910	27.894.	41.544.	4129
4404	2.231.	34.887	6.00	39.5.	1.51.	20.2.	1.844.	27.894.	41.550.	4333
4602	2.185	34.881	5.94	43.4.	1.58.	20.6.	1.775.	27.894.	41.556	4526
4730	2.033	34.865	5.87.	52.6.	1.68.	22.1.	1.613.	27.894.	41.569.	4651

OCEANUS 133 STA-236
DATE 5/ 5/83

LAT= 15 30.0N. LON= 51 59.8W

SONIC DEPTH= 4965m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1	26.566	36.498	4.79	26.566	23.987	30.211	36.234.	0.004.	2.25	1
25	26.368	36.489	4.77	26.362	24.045	30.273	36.299	0.097.	5.25	25
50	25.505	36.802	4.84.	25.494.	24.553	30.794	36.834.	0.188.	6.10	50
75	25.191	37.042.	4.84	25.175	24.834	31.079	37.122	0.271	6.59	75
100	24.378	37.150.	4.61	24.357.	25.165	31.425	37.483.	0.346.	6.95.	99
150	22.081	37.101.	3.89	22.051	25.803	32.111	38.214	0.472.	5.73.	149.
200	19.092	36.688.	3.35	19.056	26.298	32.677	38.848	0.574.	4.85.	199
300	14.939	35.984.	2.81	14.893	26.756	33.247	39.524	0.728.	3.09.	298
400	12.440	35.609	2.54	12.386	26.988	33.553	39.902	0.856.	2.50.	397
500	10.067	35.239	2.46	10.008	27.137.	33.780	40.202	0.966.	2.25.	496
600	7.967	34.936	2.66	7.905	27.238.	33.953	40.444	1.064.	1.63	596
800	6.060	34.736	3.08	5.988	27.346	34.131	40.689	1.241.	1.56.	794
1000	5.369	34.815.	3.69	5.283	27.496	34.306	40.888	1.396.	1.46.	992
1250	5.050	34.952	4.56	4.943	27.644	34.465	41.058.	1.559.	1.38	1239
1500	4.412	34.996.	5.33	4.287	27.753	34.598	41.214	1.695.	1.08.	1486
1750	3.909	34.992.	5.68	3.766	27.804	34.670	41.305	1.814	0.91.	1732
2000	3.476	34.976.	5.84	3.316.	27.836	34.720	41.373.	1.925.	0.70	1979
2500	3.017	34.954	5.84	2.816	27.865	34.769	41.442	2.137	0.55	2471
3000	2.730	34.932	5.80	2.485	27.877	34.795	41.480	2.348.	0.47	2961
3500	2.516	34.914	5.77	2.223	27.884	34.813	41.509	2.562.	0.44.	3451
4000	2.295	34.895	5.75	1.952	27.892.	34.832	41.539	2.778.	0.47	3939.
4500	2.048	34.868.	5.72	1.655	27.893	34.846	41.565	2.994.	0.54	4427
4973	1.832	34.837.	5.69	1.389	27.887	34.852	41.582.	3.196.	0.28	4887

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
0	26.591	36.483	4.67	1.0	0.07	0.0	26.591	23.968.	36.214	0
94	24.832	37.137	4.83	0.5.	0.07	0.0.	24.812	25.017	37.317.	93
243	16.339	36.214.	3.9.	3.9.	0.85	13.9	16.300	26.613	39.304	241
397	12.590	35.646	2.75	8.3.	1.34	21.9	12.536	26.987	39.892	394
594	8.354	34.985	2.64	18.3	2.00	30.9	8.290	27.218	40.398.	590
792	6.052	34.734	3.07	25.6	2.26	33.9.	5.981.	27.345	40.689.	786
994	5.432	34.808	3.45	26.0	2.13	31.5	5.345.	27.482	40.870.	986
1192	5.169	34.924.	4.06	22.8	1.87	27.6.	5.066.	27.608	41.013.	1182
1395	4.633	34.985	4.95	19.3	1.58	23.0.	4.516	27.719	41.164	1382
1592.	4.158	34.993	5.50	17.7	1.43.	20.6.	4.027	27.778	41.259	1576
1794.	3.749	34.986	5.71	19.4	1.40.	20.1.	3.604	27.816	41.330	1776
1995.	3.456	34.973	5.80	21.2.	1.37.	19.8.	3.297.	27.836	41.374.	1973
2196.	3.267	34.965.	5.84	23.3.	1.37	19.8.	3.092	27.849	41.403	2171
2395	3.075	34.955.	5.81	26.5.	1.38	20.3	2.883	27.860	41.431	2368
2697	2.875	34.941.	5.85	29.3.	1.39	20.4	2.658	27.869	41.458	2664
2999	2.740	34.929.	5.84	33.4.	1.43	20.7	2.495	27.874.	41.476.	2960
3298	2.593	34.916	5.79	38.5	1.49	21.2	2.320	27.878	41.495	3253
3603	2.472	34.906	5.80	40.6	1.48	21.4.	2.169	27.883	41.512.	3551
3899	2.319	34.893.	5.86	42.3	1.47	21.4.	1.987	27.887	41.531	3840
4204	2.202	34.882.	5.85	44.1	1.51.	21.3.	1.839	27.890	41.547	4138
4402	2.121.	34.874	5.87	47.1	1.53.	21.6.	1.737	27.891.	41.556	4331
4601	1.945.	34.853.	5.77	56.1	1.60.	23.0.	1.543	27.889.	41.571	4525
4807	1.841.	34.837.	5.65	62.9	1.68.	24.0.	1.418.	27.885.	41.578	4725
4982	1.833.	34.835.	5.66	64.7.	1.70.	24.2.	1.388	27.886	41.581	4895

OCEANUS 133 STA-237 LAT= 16 0.0N LON= 52 0.0W SONIC DEPTH= 5035m
DATE 5/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	26.277	36.438	5.09	26.277	24.034	30.263	36.292	0.012	0.69	3
25	26.205	36.445	4.96	26.200	24.063	30.294	36.324	0.097	3.71	25
50	25.797	36.727	5.05	25.785	24.406	30.643	36.678	0.190	6.24	50
75	25.531	36.939	5.03	25.514	24.651	30.890	36.928	0.275	5.28	75
100	25.052	37.076	4.96	25.030	24.904	31.151	37.197	0.355	6.30	99
150	22.552	37.186	4.25	22.521	25.732	32.030	38.123	0.492	6.99	149
200	19.498	36.765	3.71	19.461	26.252	32.621	38.782	0.595	4.80	199
300	14.874	35.973	2.90	14.829	26.761	33.254	39.533	0.753	3.22	298
400	12.545	35.616	2.70	12.490	26.973	33.535	39.881	0.881	2.66	397
500	10.252	35.274	2.55	10.192	27.134	33.770	40.186	0.992	2.15	496
600	8.176	34.978	2.72	8.113	27.240	33.947	40.431	1.091	1.85	596
800	6.174	34.761	3.13	6.101	27.351	34.131	40.686	1.267	1.48	794
1000	5.417	34.791	3.65	5.330	27.471	34.279	40.860	1.424	1.53	992
1250	5.094	34.953	4.51	4.986	27.640	34.460	41.051	1.590	1.42	1239
1500	4.474	34.995	5.27	4.348	27.745	34.589	41.203	1.727	1.06	1486
1750	3.965	34.995	5.69	3.821	27.801	34.665	41.298	1.849	0.98	1732
2000	3.478	34.980	5.86	3.318	27.839	34.723	41.375	1.960	0.72	1979
2500	2.985	34.954	6.02	2.785	27.868	34.773	41.447	2.171	0.52	2471
3000	2.696	34.931	5.93	2.452	27.879	34.798	41.485	2.380	0.45	2961
3500	2.489	34.912	5.90	2.197	27.885	34.815	41.512	2.592	0.46	3451
4000	2.253	34.893	5.89	1.912	27.893	34.835	41.543	2.807	0.44	3939
4500	2.104	34.872	5.80	1.709	27.892	34.842	41.559	3.022	0.40	4427
5000	1.899	34.842	5.72	1.450	27.887	34.849	41.577	3.242	0.43	4913
5105	1.876	34.838	5.70	1.415	27.886	34.850	41.579	3.283	0.37	5015

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	26.247		4.79	1.4	0.10	0.0				1
92	25.033	37.034	4.19	0.7	0.08	0.0	25.013	24.877	37.172	92
247	16.841	36.335	2.38	3.1	0.73	11.7	16.800	26.588	39.252	245
392	12.189	35.557	2.67	8.8	1.43	23.1	12.137	26.996	39.926	389
594	8.347	35.004	2.65	18.1	2.02	31.2	8.283	27.234	40.414	590
792	6.077	34.747	3.01	25.1	2.26	33.9	6.006	27.352	40.694	786
993	5.380	34.788	3.40	26.3	2.17	32.1	5.294	27.473	40.865	985
1193	5.165	34.937	4.06	21.9	1.83	27.1	5.061	27.618	41.024	1183
1390	4.695	34.987	4.89	18.9	1.59	23.2	4.578	27.713	41.154	1377
1594	4.323	35.001	5.45	16.6	1.44	20.8	4.190	27.767	41.236	1578
1802	3.876	34.993	5.76	17.2	1.39	19.8	3.729	27.809	41.313	1783
2002	3.497	34.983	5.79	20.8	1.37	20.0	3.336	27.840	41.375	1980
2298	3.149	34.961	5.91	22.9	1.38	19.5	2.966	27.857	41.421	2272
2599	2.931	34.948	5.90	27.5	1.38	19.7	2.722	27.869	41.453	2568
2901	2.762	34.937	5.94	29.6	1.40	20.2	2.527	27.877	41.477	2864
3196	2.624	34.926	5.72	36.1	1.45	21.1	2.361	27.883	41.496	3153
3501	2.493	34.911	5.80	39.0	1.50	21.1	2.200	27.884	41.511	3452
3803	2.343	34.910	5.84	40.9	1.47	21.2	2.021	27.898	41.539	3747
4105	2.238	34.894	5.90	39.8	1.43	20.8	1.885	27.896	41.548	4041
4406	2.133	34.878	5.83	46.9	1.53	21.8	1.748	27.894	41.558	4335
4600	2.069	34.868	5.83	51.3	1.58	22.3	1.663	27.892	41.563	4524
4810	1.982	34.857	5.74	55.5	1.60	22.9	1.554	27.892	41.572	4728
5008	1.900	34.842	5.73	61.7	1.68	23.9	1.450	27.887	41.577	4921
5115	1.877	34.840	5.67	63.0	1.69	23.9	1.415	27.888	41.581	5025

OCEANUS 133 STA-238
DATE 6/ 5/83

LAT= 16 30.0N LON= 52 0.2W3

SONIC DEPTH= 4855m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DF m
3	26.3863	36.2513	4.80	26.385	23.858	30.087	36.115	0.0123	1.32	3
25	26.3333	36.3013	4.87	26.328	23.914	30.144	36.1723	0.1013	5.25	25
50	25.9263	36.658	5.01	25.914	24.313	30.548	36.5813	0.1963	6.56	50
75	25.5053	36.916	4.99	25.488	24.6413	30.881	36.920	0.2833	6.44	75
100	24.9153	37.102	4.83	24.893	24.9663	31.2163	37.2643	0.3633	7.32	99
150	22.3863	37.1943	4.16	22.355	25.7873	32.0873	38.1833	0.4953	6.78	149
200	19.5383	36.7863	3.76	19.501	26.2583	32.6253	38.7853	0.5963	4.38	199
300	15.4193	36.0743	3.023	15.372	26.7183	33.195	39.4593	0.757	3.23	298
400	12.9753	35.6813	2.723	12.920	26.937	33.4863	39.8203	0.8893	2.64	397
500	10.5313	35.3163	2.553	10.470	27.1173	33.7443	40.1513	1.0033	2.46	496
600	8.513	35.0373	2.613	8.449	27.2353	33.9303	40.4033	1.1033	1.73	596
800	6.4193	34.8043	3.013	6.3443	27.3533	34.1243	40.6703	1.2813	1.45	794
1000	5.5793	34.8263	3.553	5.4913	27.4793	34.2813	40.8563	1.4373	1.38	992
1250	5.0683	34.9533	4.423	4.9603	27.6433	34.4633	41.0553	1.6063	1.50	1239
1500	4.4703	34.9963	5.113	4.3453	27.7463	34.5903	41.2043	1.7433	1.10	1486
1750	3.9563	34.9963	5.503	3.8133	27.8023	34.6663	41.3003	1.8653	0.87	1732
2000	3.5683	34.985	5.723	3.407	27.834	34.7143	41.364	1.9783	0.76	1979
2500	3.0183	34.956	5.863	2.817	27.867	34.7713	41.443	2.1903	0.55	2470
3000	2.7163	34.934	5.803	2.471	27.880	34.7983	41.4843	2.399	0.473	2961
3500	2.4753	34.912	5.733	2.183	27.886	34.8173	41.5143	2.6113	0.463	3451
4000	2.2263	34.8883	5.703	1.885	27.891	34.8343	41.5433	2.8233	0.443	3939
4500	2.0273	34.8653	5.733	1.634	27.892	34.8463	41.5663	3.0373	0.433	4427
4927	1.9063	34.8453	5.833	1.466	27.888	34.8503	41.5773	3.2213	0.293	4842

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
4	26.343	36.259	4.75	1.4	0.08	0.13	26.3423	23.878	36.136	4
101	24.715	37.164	4.71	0.53	0.05	0.03	24.6933	25.073	37.378	100
211	19.169	36.7283	3.94	1.43	0.30	5.43	19.1313	26.310	38.856	210
398	12.753	35.6443	2.81	8.43	1.31	21.7	12.6993	26.953	39.849	395
601	8.4873	35.0523	2.55	17.93	1.97	31.0	8.4223	27.251	40.420	597
797	6.3373	34.7993		24.73	2.233	33.6	6.2633	27.360	40.682	791
993	5.5613	34.8273	3.45	25.73	2.123	31.6	5.4733	27.482	40.860	984
1193	5.1883	34.9233		22.83	1.853	27.4	5.0853	27.604	41.0093	1183
1396	4.7113	34.9863	4.80	19.9	1.613	23.8	4.5933	27.711	41.1503	1383
1599	4.2363	34.9963	5.32	19.33	1.463	21.7	4.1043	27.772	41.2483	1583
1789	3.9253	34.9933	5.59	19.43	1.40	20.7	3.7783	27.804	41.3043	1771
2096	3.4063	34.9773	5.79	22.33	1.373	20.0	3.2383	27.844	41.3873	2074
2401	3.0793	34.9603	5.913	24.33	1.36	19.83	2.8873	27.864	41.4343	2373
2704	2.8623	34.9423	5.883	28.8	1.383	20.03	2.6443	27.871	41.4613	2671
3003	2.7223	34.9353	5.813	31.83	1.393	20.43	2.4773	27.880	41.4843	2964
3309	2.5643	34.9173		35.33	1.423	20.73	2.2913	27.881	41.5013	3264
3605	2.4173	34.9033	5.82	40.43	1.463	21.23	2.1153	27.885	41.518	3553
3802	2.3093	34.8933	5.85	43.43	1.493	21.53	1.9893	27.887	41.5313	3745
4002	2.2263	34.8913	5.81	45.73	1.503	21.8	1.8853	27.893	41.5463	3941
4200	2.1613	34.8793	5.95	46.63	1.50	21.93	1.800	27.891	41.5503	4134
4401	2.0643	34.8663	5.81	50.93	1.57	22.33	1.6823	27.889	41.559	4330
4607	1.9753	34.8563	5.73	55.83	1.603	22.9	1.5723	27.889	41.568	4531
4803	1.9073	34.8463	5.75	59.63	1.643	23.73	1.4823	27.8883	41.5753	4722
4937	1.9053	34.8423	5.71	61.33	1.653	23.93	1.4643	27.8863	41.574	4851

OCEANUS 133 STA-239 LAT= 17 0.0N. LON= 52 0.0W. SONIC DEPTH= 4625m
 DATE 6/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1	26.012	36.152	4.71	26.012	23.901	30.138	36.173	0.004	3.74	1
25	26.079	36.596	4.93	26.073	24.217	30.449	36.480	0.098	9.53	25
50	25.785	36.939	4.99	25.774	24.570	30.805	36.838	0.184	5.83	50
75	24.788	37.206	5.07	24.771	25.082	31.333	37.383	0.263	7.19	75
100	24.096	37.250	5.04	24.075	25.325	31.590	37.652	0.333	4.25	99
150	22.860	37.245	4.66	22.829	25.689	31.979	38.065	0.460	5.98	149
200	19.737	36.793	4.04	19.700	26.211	32.573	38.729	0.565	4.63	199
300	15.818	36.152	3.69	15.770	26.688	33.154	39.407	0.727	3.12	298
400	13.231	35.728	2.98	13.175	26.922	33.463	39.789	0.861	2.62	397
500	11.013	35.415	2.84	10.950	27.108	33.719	40.111	0.977	2.36	496
600	9.076	35.133	2.77	9.008	27.222	33.897	40.351	1.079	1.95	596
800	6.366	34.810	3.05	6.292	27.365	34.138	40.685	1.257	1.49	794
1000	5.601	34.833	3.48	5.512	27.482	34.283	40.857	1.412	1.46	992
1250	6.098	34.956	4.3	.99	2.64	3.46	4.05	.57	1.3	1239
1500	4.572	35.004	5.20	4.445	27.741	34.581	41.191	1.718	1.13	1486
1750	3.997	34.996	5.64	3.854	27.798	34.661	41.293	1.840	0.91	1732
2000	3.564	34.983	5.81	3.403	27.833	34.714	41.363	1.954	0.72	1979
2500	3.031	34.956	5.90	2.830	27.865	34.769	41.440	2.168	0.54	2470
3000	2.715	34.932	5.80	2.471	27.878	34.796	41.482	2.378	0.48	2961
3500	2.450	34.909	5.80	2.159	27.886	34.817	41.516	2.590	0.43	3451
4000	2.217	34.888	5.81	1.876	27.892	34.835	41.545	2.803	0.45	3939
4500	2.004	34.861	5.84	1.612	27.890	34.845	41.566	3.016	0.45	4426
4687	1.957	34.853	5.89	1.544	27.889	34.847	41.571	3.096	0.27	4609

PR	T	S	02	SIL	PHOS	N03	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	26.136	36.330	4.89	1.2	0.05	0.1	26.135	23.997	36.262	1
102	23.879	37.248	4.85	0.5	0.05	0.1	23.857	25.389	37.724	101
258	16.931	36.343	4.13	2.2	0.53	8.6	16.888	26.573	39.233	257
407	12.887	35.707	3.15	7.1	1.23	19.9	12.831	26.976	39.862	405
601	8.810	35.105	2.76	16.7	1.90	29.4	8.744	27.242	40.389	597
803	6.259	34.804	3.04	24.7	2.22	33.1	6.185	27.374	40.702	796
1001	5.571	34.836	3.48	25.1	2.12	31.4	5.482	27.488	40.865	993
1198	5.248	34.923	4.04	22.8	1.89	27.6	5.143	27.598	40.998	1188
1402	4.766	34.986	4.81	19.6	1.63	23.8	4.646	27.705	41.140	1389
1597	4.293	34.998	5.37	17.7	1.47	21.2	4.160	27.768	41.239	1582
1800	3.889	34.997	5.68	18.0	1.39	19.9	3.742	27.811	41.314	1782
2000	3.538	34.982	5.78	20.6	1.37	19.8	3.377	27.835	41.367	1979
2201	3.323	34.971	5.86	22.2	1.36	19.5	3.147	27.848	41.398	2176
2401	3.080	34.959	5.87	25.0	1.35	19.5	2.889	27.863	41.433	2373
2601	2.950	34.947	5.89	27.9	1.41	19.9	2.741	27.866	41.449	2570
2803	2.826	34.937	5.83	29.9	1.42	19.9	2.599	27.871	41.465	2767
3103	2.672	34.926		34.3	1.47	20.5	2.418	27.878	41.487	3062
3406	2.510	34.914	5.87	35.8	1.46	20.4	2.227	27.884	41.509	3358
3698	2.384	34.900	5.85	40.9	1.49	21.1	2.073	27.886	41.523	3644
4006	2.217	34.886	5.88	43.5	1.51	21.2	1.876	27.890	41.544	3945
4196	2.137	34.878	5.78	48.3	1.55	21.6	1.777	27.892	41.553	4130
4406	2.052	34.866	5.83	51.9	1.58	22.2	1.670	27.890	41.561	4334
4603	1.960	34.853	5.75	57.5	1.64	22.8	1.557	27.888	41.568	4526
4695	1.958	34.853	5.73	57.7	1.66	23.3	1.544	27.889	41.570	4616

OCEANUS 133 STA-240
DATE 6/ 5/83

LAT= 17 29.8N LON= 51 59.9W

SONIC DEPTH= 4778m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
3	25.909	36.734	4.84	25.908	24.373	30.607	36.640.	0.011	-1.12.	3
25	25.888	36.794	4.77	25.883	24.426	30.660	36.693	0.089	5.55.	25
50	25.368.	37.011	4.87.	25.357	24.754	30.996	37.036	0.173	6.64	50
75	24.721	37.164	4.92.	24.705	25.070	31.323	37.374	0.249	5.84.	75
100	24.227	37.277	4.90	24.206	25.306	31.568	37.628	0.320	5.56.	99
150	22.397.	37.166	4.50	22.367	25.762	32.062	38.159	0.445	6.12.	149.
200	19.817	36.819	4.11	19.780	26.210.	32.571.	38.724	0.548	4.91.	199.
300	15.538	36.109.	3.02.	15.491.	26.718.	33.192	39.453.	0.707	3.05.	298
400	13.496	35.800.	3.40.	13.439.	26.924.	33.457	39.774	0.839	2.45.	397
500	11.316.	35.463.	3.06.	11.252	27.090.	33.691	40.074	0.956.	2.49.	496.
600	8.834.	35.082.	2.84	8.768	27.220	33.904	40.366	1.059.	1.91.	596
800	6.406.	34.812.	2.96.	6.331	27.361	34.133	40.678	1.238.	1.53.	794
1000	5.581	34.837.	3.43.	5.493	27.487	34.289	40.864	1.394	1.53.	992
1250	5.136	34.948.	4.28.	5.027	27.631	34.449.	41.039.	1.559	1.28	1239
1500	4.521	34.992.	5.05.	4.395	27.738	34.579	41.191.	1.699	1.10	1486
1750	4.013	34.993.	5.54.	3.869	27.795.	34.656	41.288	1.823	0.94	1732
2000	3.614	34.982.	5.70.	3.452	27.828	34.706	41.354.	1.938	0.73	1979
2500	3.020	34.954.	5.83.	2.820	27.865.	34.769	41.441.	2.154	0.58.	2470
3000	2.702	34.930.	5.83.	2.457.	27.878.	34.797.	41.483.	2.364.	0.45.	2961
3500	2.457	34.907.	5.72.	2.166.	27.884.	34.815.	41.513.	2.577.	0.50.	3451
4000	2.193	34.880.	5.73.	1.853.	27.887.	34.832.	41.543.	2.789.	0.41	3939
4500	2.053	34.862.	5.82.	1.660.	27.887.	34.840.	41.559.	3.004.	0.36	4426
4843	2.027	34.856.	5.87.	1.593.	27.888	34.843.	41.565.	3.156.	0.24	4760

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
11	25.938	36.546	4.70	1.6.	0.05	0.0.	25.936	24.222	36.491	11
99	24.006	37.232	4.89	0.5.	0.04.	0.0.	23.985	25.338	37.669	98
243	16.824	36.307	3.36	3.1.	0.68.	11.7.	16.784	26.571	39.236	242
400	13.529	35.810	3.49	6.0.	1.01.	16.4.	13.472	26.925	39.773	397
593	8.622	35.060	2.83	17.4.	1.91.	29.5.	8.558	27.236	40.396	589
793	6.334	34.807.	3.00.	24.6.	2.21.	33.1.	6.261	27.367	40.689	787
993	5.604	34.835.	3.37.	25.4.	2.12.	31.4.	5.516	27.483	40.858	984
1193	5.210	34.935.	4.07.	22.6.	1.85.	27.2.	5.106	27.611	41.014	1182
1390	4.784	34.985.	4.70.	20.3.	1.65.	24.0.	4.665	27.702	41.136.	1377
1589	4.342	35.001.	5.34.	17.8.	1.47.	21.1.	4.209	27.765	41.232.	1574
1792	3.902	34.995.	5.58.	19.3.	1.43.	20.4.	3.756	27.808.	41.310.	1773
2095	3.463	34.979.	5.73.	23.3.	1.41.	20.3.	3.295	27.841	41.379.	2072
2392	3.123.	34.960.	5.76.	27.6.	1.41.	20.2.	2.931.	27.860	41.427	2364
2691	2.866.	34.944.	5.77.	30.8.	1.41.	20.2.	2.650.	27.872	41.462	2658
3295	2.570.	34.917.	5.83.	35.5.	1.44.	20.5.	2.298.	27.881	41.499	3250
3495	2.462.	34.906.	5.83.	40.3.	1.50.	21.1	2.171.	27.883	41.512	3445
3700	2.322.	34.895.	5.86.	43.7.	1.51.	21.5.	2.012.	27.887	41.529	3646
3905	2.234.	34.885.	5.82.	46.3.	1.51.	21.7.	1.904.	27.887	41.538	3846
4104	2.149.	34.874.	5.81.	49.7.	1.58	22.1.	1.799	27.887	41.547	4040
4283	2.114.	34.871.	5.70.	51.1.	1.59.	22.2	1.744.	27.888	41.553	4215
4508	2.050.	34.862.	5.79.	53.6.	1.60	22.5	1.656.	27.888	41.560	4434
4702	2.034.	34.857.	5.77.	55.0.	1.62	22.8	1.617	27.887.	41.562	4623
4858	2.025.	34.855.	5.72.	56.1.	1.64.	23.0.	1.589	27.887.	41.565.	4774

OCEANUS 133 STA-241
DATE 6/ 5/83

LAT= 18 0.0N. LON= 52 0.0W.

SONIC DEPTH= 4760m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	26.053.	36.368	4.98	26.053	24.051	30.285	36.318	0.004.	1.16	1
25	26.020	36.607	4.97	26.014	24.244	30.477	36.508	0.096.	10.51	25
50	24.820	37.201	5.03	24.809	25.066	31.317.	37.365.	0.176.	7.02	50
75	23.984	37.274	4.90	23.969	25.375.	31.642.	37.706	0.245.	5.97.	75
100	23.191	37.251	4.68	23.170	25.594.	31.877.	37.956.	0.308	5.75.	99
150	21.017	37.018	3.96.	20.988	26.036.	32.368.	38.493.	0.419.	4.71.	149.
200	18.780	36.661	3.64.	18.745	26.358.	32.745.	38.923.	0.513.	3.76.	199
300	15.639	36.125	3.54.	15.591	26.708.	33.178.	39.437.	0.670.	3.11.	298
400	13.447	35.772	2.89.	13.390.	26.913	33.447.	39.767.	0.803.	2.40	397
500	11.513	35.491	3.07	11.448.	27.076	33.671.	40.047.	0.920.	2.41.	496
600	9.263	35.163	2.91.	9.195	27.215	33.894.	40.332.	1.023.	2.07	596
800	6.132	34.784	3.11	6.059	27.374	34.156.	40.711.	1.200.	1.63.	794
1000	5.456	34.847	3.64.	5.369	27.510	34.317.	40.895.	1.351.	1.48	992
1250	5.096	34.962	4.51.	4.988	27.647	34.466.	41.057.	1.512.	1.28.	1239
1500	4.541	34.995	5.13	4.415	27.738	34.578.	41.190.	1.651.	1.13	1486
1750	4.005	34.994	5.51	3.861	27.796	34.658.	41.290.	1.774.	0.91.	1732
2000	3.609	34.985	5.71.	3.448.	27.830	34.709	41.356.	1.888.	0.71.	1979.
2500	3.025	34.954	5.84.	2.825.	27.864	34.768.	41.440.	2.104.	0.56.	2470.
3000	2.718	34.930	5.87.	2.474.	27.876	34.794.	41.480.	2.315.	0.47.	2961.
3500	2.462	34.907	5.84.	2.171	27.884	34.815.	41.513.	2.529.	0.50.	3450.
4000	2.221	34.883	5.80.	1.881	27.887	34.830.	41.540.	2.742	0.39.	3939
4500	2.104.	34.867	5.79.	1.709	27.888	34.838.	41.555.	2.959	0.35.	4426
4833	2.066	34.860.	5.76.	1.632	27.888.	34.842.	41.562.	3.108	0.29.	4750.

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	26.143	36.314.	4.87	1.4.	0.04.	0.1	26.142	23.983	36.248	5
99	23.306	37.264.	4.69	0.4.	0.04	0.1	23.286	25.570	37.928	98
246	16.138	36.201.	3.57	3.5.	0.69.	12.0	16.099	26.650	39.352.	245
394	13.161	35.724.	2.92	7.4.	1.23.	20.3	13.106	26.933	39.804.	391
595	9.649	35.217.	2.97	14.6.	1.70.	26.8	9.580	27.193	40.285.	590
795	6.273	34.791.	3.14	24.7.	2.17	32.7	6.200	27.362	40.689.	788
992	5.484	34.833.	3.51	25.3.	2.07.	30.7	5.397	27.496	40.879.	984
1195	5.174.	34.942.	4.32	21.7.	1.78	26.3	5.071	27.621.	41.026.	1184
1398	4.804	34.992.	4.96	18.5.	1.54.	22.7	4.684	27.705.	41.138.	1384
1588	4.312	34.994.	5.31	19.0.	1.48.	21.7	4.180	27.762.	41.232	1572
1794	3.949.	34.992	5.57	19.5.	1.42.	20.7	3.802	27.800.	41.299.	1775
2095	3.515.	34.978.	5.70	22.5.	1.41.	20.3	3.345	27.835.	41.369.	2072
2394	3.126.	34.958.	5.81	26.8.	1.38.	20.1	2.935	27.858.	41.425.	2366
2695	2.914.	34.945.	5.82	30.0.	1.38.	20.3	2.697	27.869.	41.455.	2661
2998	2.720.	34.928.	5.92	33.5.	1.41.	20.6	2.475.	27.875.	41.479	2959
3302	2.579.	34.914.	5.85	37.0.	1.44.	20.9	2.306.	27.878.	41.496.	3256
3502	2.460.	34.904.	5.89	40.5.	1.47.	21.2.	2.169.	27.881.	41.510.	3452
3707	2.342.	34.894.	5.80	43.7.	1.50.	21.7.	2.031.	27.884.	41.525.	3652
3901	2.250.	34.884.	5.82	46.1.	1.51.	21.8.	1.920.	27.885.	41.535.	3842
4105	2.179.	34.877.	5.81	48.4.	1.54.	22.0.	1.828.	27.887.	41.544.	4041
4299	2.146.	34.871.	5.78	50.1.	1.53.	21.8.	1.773.	27.886.	41.548.	4230
4502	2.101.	34.862.	5.79	52.0.	1.56.	22.4.	1.706.	27.884.	41.552.	4428
4701	2.075.	34.859	5.78	53.7.	1.57	22.6.	1.657.	27.885.	41.557.	4622
4839	2.066.	34.856.	5.77	54.5.	1.59.	23.0	1.632.	27.885.	41.559.	4756

OCEANUS 133 STA-242
DATE 6/ 5/83

LAT= 18 30.7N LON= 52 0.0W.

SONIC DEPTH= 4505m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m ³	SIG-1.5 kg/m ³	SIG-3 kg/m ³	HGTH m	N cph	DE m
3	26.016	36.871	4.55	26.015	24.443	30.673	36.703	0.010	2.21	3
25	25.868	36.876	4.64	25.862	24.495	30.729	36.761	0.087	2.17	25
50	25.627	37.030	4.69	25.616	24.688	30.925	36.960	0.172	8.93	50
75	24.503	37.244	4.79	24.486	25.196	31.453	37.508	0.246	6.08	75
100	23.796	37.255	4.74	23.775	25.419	31.689	37.757	0.314	5.57	99
150	21.671	37.089	4.03	21.642	25.909	32.225	38.337	0.432	5.33	149
200	18.778	36.633	3.49	18.742	26.337	32.724	38.903	0.530	4.51	199
300	15.596	36.115	3.51	15.549	26.710	33.182	39.441	0.684	2.88	298
400	13.419	35.788	3.23	13.362	26.930	33.465	39.785	0.817	2.56	397
500	11.308	35.459	2.97	11.244	27.089	33.690	40.073	0.933	2.25	496
600	9.252	35.157	2.93	9.184	27.212	33.882	40.330	1.036	1.82	596
800	6.702	34.855	3.05	6.626	27.356	34.116	40.651	1.216	1.49	794
1000	5.586	34.842	3.55	5.498	27.491	34.292	40.867	1.372	1.54	992
1250	5.052	34.974	4.51	4.944	27.662	34.482	41.075	1.534	1.35	1239
1500	4.539	35.005	5.22	4.412	27.746	34.587	41.199	1.670	1.05	1486
1750	4.063	35.001	5.63	3.918	27.796	34.655	41.285	1.793	0.84	1732
2000	3.642	34.985	5.65	3.479	27.827	34.704	41.351	1.909	0.77	1978
2500	3.055	34.955	5.78	2.854	27.863	34.765	41.436	2.126	0.56	2470
3000	2.746	34.932	5.80	2.501	27.875	34.792	41.477	2.338	0.45	2961
3500	2.490	34.910	5.80	2.198	27.883	34.813	41.510	2.552	0.49	3450
4000	2.221	34.883	5.75	1.881	27.887	34.831	41.541	2.767	0.45	3939
4309	2.130	34.872	5.73	1.757	27.888	34.837	41.552	2.900	0.38	4240

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m ³	SIG-3 kg/m ³	DE m
0	25.987	36.881	4.74	0.6	0.05	0.1	25.987	24.459	36.720	0
103	23.460	37.272	4.78	0.3	0.05	0.1	23.438	25.531	37.883	102
256	16.505	36.297	3.72	2.8	0.61	10.5	16.463	26.639	39.320	255
403	13.289	35.770	3.29	6.6	1.10	18.0	13.232	26.943	39.806	400
603	9.204	35.165	2.98	15.4	1.77	27.4	9.136	27.226	40.347	599
802	6.518	34.843	3.07	23.5	2.15	32.3	6.443	27.371	40.680	795
1005	5.577	34.842	3.56	25.0	2.08	30.7	5.488	27.492	40.869	997
1203	5.195	34.946	4.29	21.5	1.79	26.2	5.090	27.622	41.025	1192
1402	4.678	34.995	4.99	18.4	1.55	22.6	4.559	27.722	41.163	1389
1603	4.283	35.003	5.55	16.3	1.40	20.3	4.150	27.773	41.245	1587
1798	3.988	34.998	5.68	17.4	1.38	20.0	3.840	27.801	41.297	1779
1998	3.621	34.983	5.67	21.3	1.40	20.3	3.459	27.828	41.353	1977
2299	3.230	34.965	5.78	25.1	1.39	20.1	3.046	27.853	41.411	2272
2602	2.986	34.949	5.82	28.6	1.41	20.2	2.776	27.865	41.445	2570
2805	2.838	34.938	5.82	31.2	1.42	20.5	2.611	27.871	41.464	2770
3002	2.732	34.927	5.81	33.5	1.45	20.6	2.487	27.873	41.476	2963
3202	2.643	34.920		35.6	1.46	20.8	2.379	27.876	41.488	3159
3409	2.513	34.909	5.83	38.7	1.48	21.2	2.230	27.880	41.504	3361
3600	2.402	34.898	5.86	41.8	1.50	21.5	2.101	27.882	41.517	3548
3898	2.271	34.884	5.79	45.9	1.55	21.9	1.940	27.884	41.532	3839
4096	2.170	34.876	5.82	48.9	1.56	22.1	1.820	27.887	41.545	4032
4300	2.130	34.868	5.80	50.6	1.58	22.2	1.758	27.885	41.548	4231
4496	2.113	34.865	5.76	51.8	1.59	22.6	1.719	27.886	41.552	4422
4557	2.102	34.863	5.79	52.2	1.59	22.8	1.701	27.885	41.554	4481

OCEANUS 133 STA-243 LAT= 19 0.4N LON= 51 59.0W SONIC DEPTH= 5765m
DATE 6/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	25.611	35.441	4.41	25.611	23.489	29.739	35.788	0.004.	14.33	1
25	25.854	36.906.	4.71	25.848	24.522	30.756	36.788.	0.088.	2.42	25
50	25.247	37.091.	4.86	25.236	24.852	31.095	37.137	0.171.	8.00.	50
75	24.313	37.300	4.78	24.297	25.296	31.556	37.614	0.244.	6.81.	75
100	23.423	37.290	4.65	23.402	25.555	31.833	37.908.	0.308.	5.45.	99
150	21.298	37.058	4.18	21.268	25.989	32.314	38.433.	0.422.	4.96.	149
200	18.835	36.652	3.99.	18.799	26.337	32.723	38.899.	0.517	3.99.	199
300	16.421	36.261	3.99	16.372	26.632	33.081.	39.319	0.677	2.65.	298
400	14.190	35.914	3.65	14.131	26.866	33.379.	39.677	0.818.	2.81.	397
500	11.859	35.583.	3.28	11.793	27.082	33.665	40.031.	0.938.	2.44.	496
600	9.907	35.300	3.07	9.836	27.215	33.862	40.289.	1.042.	1.92.	596
800	6.984	34.922	3.07	6.906.	27.370	34.120	40.645	1.222.	1.52	794
1000	5.668	34.861.	3.54	5.579	27.496	34.294	40.866.	1.377.	1.54.	992
1250	5.099	34.966.	4.44	4.991	27.650	34.469	41.060	1.541.	1.29	1239
1500	4.590	35.007	5.20	4.463	27.742	34.580	41.190	1.680.	1.10.	1486
1750	4.077	35.003	5.65	3.933	27.796	34.655	41.284	1.803.	0.91	1732
2000	3.651	34.992	5.73	3.488	27.832	34.709	41.355.	1.918.	0.79.	1978
2500	3.057	34.957	5.81	2.856	27.864	34.767	41.437.	2.133.	0.56	2470
3000	2.741	34.933	5.88	2.496	27.877	34.794	41.479.	2.344.	0.46.	2961
3500	2.474	34.909.	5.88	2.182	27.884	34.814	41.512.	2.558.	0.49	3450
4000	2.229	34.885.	5.85.	1.888	27.888	34.831	41.541.	2.772.	0.42	3939
4500	2.091	34.867.	5.80.	1.696	27.889	34.840	41.558.	2.988.	0.30.	4426
5000	2.077	34.859.	5.77	1.621	27.888	34.843	41.563.	3.212	0.19	4912
5500	2.118	34.855.	5.83	1.598	27.887	34.842	41.564	3.449.	0.07.	5398
5783	2.156	34.855	5.91	1.597	27.887	34.842	41.564.	3.590.	0.06.	5672

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
14	25.920	36.914	4.69	0.8	0.05	0.1	25.917	24.506	36.769	14
92	23.646	37.313	4.71	0.4.	0.05	0.1	23.626.	25.507	37.850	91
247	17.608	36.478	4.04	1.7.	0.37	6.5	17.566	26.513	39.137	246
392	14.468	35.954	3.75	4.6.	0.81	13.5	14.409	26.838	39.633	390
593	10.100	35.327	3.03	13.1.	1.58	24.9	10.029	27.203.	40.264	589
795	7.039	34.928	3.02	21.8	2.08	31.0	6.961.	27.368	40.638	789
993	5.652	34.855	3.47	24.7.	2.05	30.7	5.564.	27.493	40.864	984
1191	5.243	34.942	4.22	21.9.	1.79	26.4	5.139	27.613	41.013	1181
1394	4.802	34.996	4.86	19.1.	1.57	23.1	4.683.	27.709	41.141.	1381
1697	4.173	35.004	5.61	19.0.			4.032.	27.786	41.267	1679
1990.	3.687	34.992	5.68	21.1.	1.39	20.2	3.525.	27.828.	41.348	1968
2295.	3.243	34.970	5.72	26.3.	1.41	20.4	3.059.	27.856	41.413	2269
2600.	2.944	34.952.	5.77	30.1.	1.41	20.4	2.736	27.871.	41.454.	2568
2892.	2.786.		5.77	32.6.	1.41.	20.5				2855
3197.	2.625	34.925	5.80	35.8.	1.44	20.8.	2.362	27.882	41.495.	3153
3502.	2.455	34.907.	5.79	40.0.	1.47.	21.2.	2.163	27.884	41.514	3452
3804.	2.316	34.894	5.81	43.7.	1.51.	21.5.	1.995.	27.887	41.531	3747
4102.	2.190	34.880	5.79	47.5.	1.53	22.0	1.839.	27.888	41.545	4038.
4401.	2.096.	34.869	5.68	51.4	1.55.	22.4	1.713.	27.889.	41.556.	4330
4711	2.078.	34.863.	5.90	53.1	1.59.	22.5	1.658	27.889.	41.560	4632
5004	2.076.	34.860.	5.76	54.3	1.59.	22.5	1.620.	27.889.	41.564.	4916
5308	2.098	34.857	5.79	54.9	1.60.	22.8	1.603.	27.888.	41.564	5211
5605	2.132	34.861.	5.88	55.1	1.60	22.9	1.597	27.892.	41.568	5499
5789	2.158	34.857	5.83	55.2	1.61.	23.1.	1.597	27.888.	41.565.	5677

OCEANUS 133 STA-244 LAT= 19 30.0N LON= 52 0.1W SONIC DEPTH= 4278m
DATE 7/ 5/83

PR	T	S	O2	Θ	SIG-Θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
3	25.869	36.890	4.67	25.868	24.503	30.737	36.7692	0.010	1.29	3
25	25.873	36.9022	4.80	25.867	24.513	30.746	36.778	0.086	2.05	25
50	25.363	37.0472	4.90	25.352	24.783	31.025	37.065	0.170	7.93	50
75	24.638	37.2292	4.96	24.622	25.1452	31.399	37.451	0.245	6.042	75
100	24.065	37.278	4.89	24.044	25.355	31.621	37.683	0.313	4.652	99
150	22.107	37.083	4.58	22.0772	25.782	32.089	38.192	0.438	5.79	1492
200	19.633	36.7762	4.16	19.596	26.225	32.591	38.749	0.5402	4.082	1992
300	17.091	36.3712	4.22	17.041	26.558	32.9892	39.210	0.7092	2.712	2982
400	15.152	36.056	3.81	15.090	26.767	33.252	39.524	0.858	2.75	3972
500	12.857	35.732	3.65	12.788	27.004	33.556	39.892	0.9862	2.49	496
600	10.7992	35.431	3.27	10.724	27.161	33.779	40.178	1.099	2.53	5952
800	6.6292	34.857	3.112	6.553	27.368	34.131	40.668	1.281	1.652	7942
1000	5.6722	34.8882	3.692	5.583	27.517	34.315	40.885	1.4342	1.552	992
1250	5.0832	34.9902	4.66	4.975	27.670	34.490	41.0812	1.593	1.29	12392
1500	4.513	35.009	5.342	4.387	27.752	34.5932	41.2062	1.728	1.07	1486
1750	4.031	35.005	5.632	3.887	27.802	34.663	41.2942	1.849	0.88	1732
2000	3.632	34.992	5.672	3.470	27.834	34.711	41.2358	1.962	0.76	1978
2500	3.000	34.9542	5.782	2.800	27.867	34.772	41.24452	2.175	0.55	2470
3000	2.730	34.932	5.822	2.485	27.877	34.795	41.24802	2.2385	0.44	2961
3500	2.442	34.907	5.83	2.151	27.885	34.816	41.25152	2.598	0.48	3450
4000	2.222	34.884	5.852	1.882	27.888	34.832	41.541	2.810	0.46	3939
4339	2.2130	34.872	5.692	1.2753	27.889	34.837	41.5522	2.9562	0.21	4269

PR	T	S	O2	SIL	PHOS	NO3	Θ	SIG-Θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	25.2872	36.9042	4.268	0.7	0.03	0.1	25.2871	24.513	36.778	4
100	24.017	37.2288	4.89	0.42	0.03	0.1	23.995	25.378	37.707	99
247	18.2006	36.539	4.28	1.32	0.28	5.4	17.963	26.4622	39.065	245
398	14.728	36.000	3.992	4.12	0.77	13.12	14.667	26.817	39.597	395
599	11.017	35.477	3.302	10.2	1.37	22.12	10.9412	27.158	40.160	594
796	7.036	34.900	3.092	21.9	2.06	31.242	6.2958	27.346	40.618	789
997	5.713	34.867	3.62	24.21	2.02	30.222	5.624	27.2495	40.861	988
1201	5.2522	34.972	4.44	20.1	1.70	25.2	5.147	27.636	41.034	11912
1399	4.733	35.005	5.15	17.3	1.492	22.0	4.614	27.724	41.2161	1386
1598	4.259	35.007	5.260	16.0	1.37	20.2	4.127	27.779	41.252	1582
1795	3.939	35.003	5.65	18.8	1.238	20.4	3.792	27.810	41.3092	1776
2002	3.6592	34.996	5.63	21.6	1.240	20.5	3.496	27.835	41.3572	1981
2199	3.3562	34.9762	5.67	25.7	1.41	20.6	3.179	27.849	41.396	2174
2399	3.1282	34.9632	5.74	28.9	1.41	20.7	2.936	27.862	41.428	2370
2600	2.9472	34.9482	5.77	31.2	1.43	20.7	2.738	27.868	41.450	2568
2801	2.8192	34.9392	5.77	33.22	1.442	20.9	2.592	27.873	41.468	27652
3004	2.2737	34.9312	5.95	34.5	1.45	20.92	2.492	27.876	41.478	2964
3204	2.612	34.9202	5.80	37.4	1.47	21.12	2.347	27.879	41.494	3161
3500	2.2448	34.9052	5.80	40.9	1.48	21.5	2.154	27.883	41.514	3450
3697	2.2339	34.8942	5.76	43.72	1.52	21.8	2.029	27.8852	41.525	3642
3908	2.271	34.8782	5.76	45.72	1.53	21.9	1.940	27.879	41.527	3848
4105	2.155	34.8772		48.72	1.55	22.3	1.805	27.889	41.548	4041
4299	2.128	34.871	5.832	50.62	1.57	22.5	1.756	27.887	41.551	4230
4345	2.128	34.872	5.78	50.6	1.58	22.5	1.7502	27.889	41.553	4274

OCEANUS 133 STA-245
DATE 7/ 5/83

LAT= 20 0.0N. LON= 51 59.5W

SONIC DEPTH= 4662m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1.	25.721	36.853.	4.82	25.720	24.521	30.758	36.793	0.003	-0.70.	1
25	25.734	36.854	4.80	25.729	24.520	30.756	36.791	0.085.	4.58.	25
50	24.793	37.216	4.92	24.782	25.086	31.337	37.386.	0.164.	6.40.	50
75	24.153	37.264	4.79	24.137	25.317	31.580	37.641.	0.234.	4.93.	75
100	23.534	37.283	4.72	23.513	25.517	31.793	37.866.	0.299.	5.56.	99
150	21.536	37.086	4.30	21.506	25.944	32.264	38.379	0.413.	4.56.	149
200	18.741	36.623	4.16	18.705	26.339	32.727	38.906.	0.511.	4.02.	199
300	16.774	36.323	4.27	16.724	26.597	33.036	39.265	0.674.	2.56	298
400	14.892	36.017	4.00	14.830	26.795	33.287	39.566	0.821.	2.67.	397
500	13.141	35.763	3.84	13.070	26.970	33.514	39.843	0.951.	2.46.	496
600	11.104	35.494	3.26	11.028	27.156.	33.763	40.152	1.066.	2.34.	595
800	7.408	35.001	3.15.	7.328	27.374.	34.108	40.618	1.254	1.77.	794
1000	5.916	34.904	3.64.	5.825	27.499	34.288	40.850	1.410.	1.58.	992
1250	5.154	34.987	4.59	5.045	27.660	34.476	41.065	1.572.	1.39.	1239
1500	4.536	35.018	5.39	4.409	27.757	34.597	41.209	1.706.	1.06.	1485
1750	4.061	35.010	5.66	3.916	27.803	34.663	41.292	1.827.	0.83.	1732
2000	3.666	34.997	5.72	3.503	27.835	34.711	41.356	1.941.	0.75.	1978
2500	3.018	34.957	5.76	2.817	27.867	34.771	41.443	2.156.	0.58.	2470
3000	2.727.	34.932	5.78	2.482	27.877	34.795	41.481	2.366.	0.46.	2961
3500	2.468.	34.908.	5.79	2.176	27.884	34.815	41.512	2.579.	0.47.	3450
4000	2.252.	34.890.	5.86	1.910.	27.891	34.833	41.541	2.792.	0.43.	3938
4500	2.071	34.866.	5.84	1.677	27.890	34.842.	41.560	3.009	0.39	4426
4729	2.054.	34.862	5.80	1.633	27.889	34.843	41.563	3.109.	0.20.	4649
PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
0	25.746	36.865	4.81	0.8	0.05.	0.0	25.746.	24.523	36.793	0
101	23.465	37.273	4.74	0.5.	0.05.	0.0.	23.444	25.530.	37.882	100
246	17.753	36.487.	4.36	0.9.	0.24.	4.9.	17.711	26.484.	39.101	245
406	14.610	35.997	4.05	3.4.	0.69.	11.6.	14.548	26.841.	39.627	403
594	11.240	35.528.	3.23	9.0.	1.34.	21.6.	11.163.	27.157.	40.145.	590
798	7.709	35.033.	3.15	18.8.	1.91.	29.2.	7.627.	27.355	40.578	791
1003	5.861	34.907.	3.65	22.6.	1.97.	29.3.	5.770	27.509	40.864.	995
1195	5.222	34.980.	4.45	19.6	1.68.	24.8.	5.118	27.646.	41.046.	1184
1397	4.759	35.013.	5.08	17.1.	1.49	21.9.	4.640	27.727.	41.162	1384
1602	4.336	35.019.	5.59	15.4.	1.36.	19.8.	4.202	27.780.	41.248	1586.
1799	3.989	35.010.	5.66	17.6.	1.37.	19.9	3.841	27.811.	41.306	1780
2003	3.626	35.002	5.68	21.2.	1.39.	20.1.	3.463.	27.843.	41.367	1981
2201	3.347	34.980.	5.72	25.2.	1.38.	20.1.	3.170.	27.853.	41.401	2176
2401	3.099	34.964.	5.73	28.5.	1.39.	20.2.	2.907.	27.865.	41.434	2373
2603	2.932	34.950.	5.77	31.3.	1.43.	20.6.	2.724.	27.870.	41.454	2571
2801	2.810	34.939.	5.79	33.4.	1.44	20.8.	2.584.	27.874.	41.469	2765
3101	2.658	34.926	5.83	36.5.	1.45.	20.7.	2.404.	27.879.	41.489	3059
3408	2.517.	34.912	5.78	39.9.	1.48.	21.3.	2.234	27.882.	41.506	3360
3709	2.368.	34.899.	5.85	41.7.	1.48.	21.3.	2.056.	27.886.	41.525	3654
4005	2.246	34.888.	5.88	43.2.	1.50.	21.2.	1.904.	27.890.	41.541	3944
4208	2.179	34.881.	5.91	44.8.	1.50.	21.1.	1.816.	27.891.	41.549	4141
4407	2.108.	34.871	5.83	49.6.	1.55.	22.0.	1.724.	27.890	41.556	4335
4606	2.054.	34.862.	5.77	52.8.	1.58.	22.5	1.648.	27.889	41.561	4529
4738	2.055.	34.862.	5.77	53.3.	1.61.	22.7	1.633.	27.890.	41.564	4657

OCEANUS 133 STA-246
DATE 7/ 5/83

LAT= 20 30.5N LON= 51 59.1W

SONIC DEPTH= 4767m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	25.200	37.016.	5.26	25.200	24.806	31.051	37.094	0.003	4.41	1
25	25.147	37.160	4.97	25.142	24.933	31.178	37.221	0.076	3.15	25
50	24.208	37.205	5.02	24.198	25.254	31.517	37.577.	0.149	6.92.	50
75	23.448	37.147	4.93	23.433	25.438	31.717	37.792.	0.216	5.18	75
100	22.807	37.143	4.83	22.786	25.624	31.916	38.004	0.277	4.38	99
150	21.252	37.025	4.47	21.223	25.976	32.303	38.424.	0.391	5.62.	149
200	18.884	36.638	4.34.	18.848	26.314	32.698	38.874	0.486	3.59.	199
300	17.020	36.362	4.26	16.970	26.569	33.002	39.224	0.650	2.37.	298
400	14.905	36.019	3.91	14.844	26.793	33.285	39.563	0.799.	2.82.	397
500	13.169	35.770	3.74	13.099	26.971	33.514	39.841	0.928	2.41	496
600	11.419	35.531	3.60	11.342	27.127	33.724	40.104	1.043	2.40.	595
800	7.837	35.074	3.23	7.754	27.369.	34.087	40.582.	1.234.	1.80.	794
1000	5.968	34.929	3.70	5.877	27.512	34.299	40.859.	1.389	1.51	991
1250	5.175	34.988	4.62	5.066	27.659	34.475	41.063	1.550.	1.31	1239
1500	4.552	35.014	5.36	4.425	27.752	34.592	41.203	1.686.	1.08	1485
1750	4.097	35.018	5.70	3.952.	27.806	34.664	41.292	1.807.	0.89	1732
2000	3.668	35.003	5.76	3.505	27.839	34.715	41.360.	1.919.	0.74	1978
2500	3.036	34.959	5.77	2.836	27.867	34.771	41.442	2.132.	0.53	2470
3000	2.742	34.934.	5.80	2.497	27.878	34.795	41.480	2.343.	0.45	2961
3500	2.459	34.908.	5.82	2.168	27.885	34.816	41.514	2.556	0.50	3450
4000	2.223	34.887	5.89	1.882	27.890	34.834	41.543	2.769.	0.42	3938
4500	2.065	34.865.	5.88	1.671	27.889.	34.842	41.560	2.984.	0.35	4426
4839	2.023	34.857	5.85	1.590	27.889	34.845	41.567.	3.133.	0.28	4755

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
11	25.199	37.075	4.74	0.7	0.05	0.1	25.196	24.852	37.139.	11
96	22.844	37.136	4.74.	0.3.	0.04	0.1	22.824	25.607	37.986.	96
243	17.942	36.526	4.26.	1.3.	0.25	5.2	17.900	26.467	39.074	241
396	14.915	36.024.	3.95.	3.8.	0.70	12.1	14.855	26.795	39.564	393
594	11.712	35.571	3.59.	8.4.	1.19	19.4	11.634	27.103	40.062	589
793	8.029	35.097	3.16.	18.2.	1.81	28.2	7.945	27.359	40.559	786
991	6.000	34.914	3.58.	22.7.	1.96	29.5	5.909	27.497	40.841.	983
1192	5.330	34.971.	4.36.	20.5.	1.71	25.6	5.225	27.626	41.019	1182
1393	4.813	35.009	5.04.	17.6.	1.49	22.2	4.694	27.718	41.149.	1380
1595	4.387	35.017.	5.51.	16.4.	1.37	20.2	4.254.	27.773	41.237.	1579
1798	4.009	35.017	5.70.	17.8.	1.34	19.8	3.860	27.814	41.308	1779
2081	3.506	34.993	5.73.	22.9	1.37	20.2	3.338	27.848	41.382	2058
2388	3.106	34.963.	5.75.	28.4	1.38	20.3	2.915	27.863	41.432	2360
2697	2.888	34.947.	5.76.	31.9	1.39	20.4	2.671	27.873	41.461	2663
2998	2.734	34.929	5.82.	34.8	1.43	20.9	2.489	27.874	41.477	2958
3300	2.582.	34.917	5.81.	38.2	1.45	21.1	2.309	27.880	41.498	3254.
3504	2.458	34.905	5.84.	41.2	1.47	21.3.	2.166	27.882	41.512	3454
3699	2.343.	34.895.	5.83.	43.0.	1.49	21.5.	2.033	27.885	41.525	3644
3899	2.257.	34.885.	5.86.	44.7.	1.49	21.6	1.927	27.885	41.535	3839.
4103	2.196	34.878.	5.81.	46.3.	1.50	21.6	1.844	27.886	41.542	4039.
4304	2.124	34.872.	5.83.	48.6.	1.51	21.7.	1.752	27.889	41.553	4234
4505	2.065	34.861	5.79.	52.2.	1.56	22.4	1.671	27.886	41.557	4430
4703	2.030	34.855	5.76.	54.6.	1.58.	22.8	1.613	27.886	41.561	4623
4846	2.025	34.857	5.81.	54.7.	1.61.	23.0	1.591.	27.889	41.566	4762

OCEANUS 133 STA-247 LAT= 21 0.1N LON= 52 0.8W SONIC DEPTH= 4925m
DATE 7/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	NE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	24.998	37.266	4.86	24.997	25.058	31.305	37.349	0.009	-0.493	3
25	24.908	37.287	4.87	24.902	25.102	31.351	37.397	0.072	6.193	25
50	23.888	37.3583	5.03	23.877	25.466	31.734	37.7993	0.1393	5.243	50
75	23.282	37.297	4.90	23.266	25.600	31.881	37.9593	0.2003	3.653	75
100	22.699	37.248	4.77	22.678	25.735	32.028	38.118	0.2593	4.17	99
150	20.843	36.982	4.34	20.815	26.056	32.392	38.522	0.3673	4.683	149
200	18.775	36.634	4.20	18.739	26.339	32.726	38.9043	0.4603	3.13	199
300	17.238	36.4073	4.51	17.187	26.551	32.977	39.194	0.6263	2.27	298
400	15.527	36.117	4.02	15.464	26.730	33.204	39.4663	0.7783	2.69	397
500	13.355	35.794	3.66	13.284	26.951	33.489	39.8113	0.9123	2.493	496
600	11.613	35.561	3.50	11.534	27.114	33.705	40.0793	1.031	2.243	595
800	7.997	35.0993	3.19	7.913	27.365	34.078	40.567	1.2273	2.07	794
1000	5.903	34.907	3.59	5.812	27.504	34.293	40.855	1.384	1.633	991
1250	5.153	34.9923	4.603	5.046	27.664	34.481	41.0693	1.545	1.31	1239
1500	4.616	35.028	5.45	4.489	27.756	34.593	41.2013	1.680	1.01	1485
1750	4.157	35.025	5.64	4.011	27.805	34.661	41.287	1.802	0.97	1732
2000	3.599	35.0003	5.73	3.437	27.844	34.722	41.3703	1.9143	0.72	1978
2500	3.023	34.9593	5.72	2.822	27.869	34.772	41.444	2.1263	0.53	2470
3000	2.750	34.934	5.71	2.505	27.877	34.794	41.479	2.3363	0.46	29603
3500	2.458	34.9083	5.72	2.167	27.885	34.816	41.514	2.549	0.44	3450
4000	2.248	34.8883	5.75	1.906	27.889	34.831	41.540	2.7633	0.43	3938
4500	2.098	34.8693	5.77	1.703	27.890	34.841	41.5583	2.980	0.38	44253
4993	2.019	34.8553	5.76	1.567	27.889	34.846	41.569	3.1993	0.23	49053

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	NE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
13	25.001	37.270	4.84	0.53	0.053	0.1	24.999	25.060	37.352	13
94	22.975	37.283	4.80	0.33	0.043	0.1	22.955	25.681	38.0523	94
244	18.173	36.543	4.40	1.13	0.233	4.5	18.130	26.423	39.0193	242
393	15.542	36.122	4.07	3.23	0.583	10.5	15.480	26.731	39.466	390
596	11.703	35.557	3.57	8.53	1.203	19.5	11.624	27.094	40.0543	591
794	8.476	35.160	3.22	16.83	1.733	26.8	8.389	27.340	40.5103	788
995	5.915	34.914	3.63	23.03	1.953	29.3	5.825	27.507	40.858	986
1190	5.327	34.974	4.39	20.53	1.693	25.3	5.223	27.629	41.022	1179
1395	4.843	35.016	5.14	16.7	1.463	21.63	4.724	27.720	41.149	1381
1593	4.417	35.027	5.61	15.53	1.353	19.9	4.283	27.778	41.239	1577
1792	3.990	35.0243	5.68	18.23	1.353	19.83	3.842	27.822	41.317	1774
2092	3.452	35.0003	5.683	23.23	1.393	20.2	3.284	27.858	41.397	2068
2393	3.109	34.968	5.77	28.13	1.40	20.33	2.917	27.867	41.435	2365
2696	2.896	34.950	5.773	31.33	1.40	20.43	2.679	27.874	41.462	2662
2999	2.730	34.934	5.77	34.53	1.433	20.93	2.485	27.879	41.482	2960
3296	2.547	34.917	5.83	38.53	1.47	21.13	2.275	27.883	41.503	3250
3600	2.411	34.903	5.86	42.2	1.503	21.4	2.110	27.885	41.519	35483
3899	2.287	34.892	5.813	45.4	1.513	21.83	1.956	27.889	41.535	3839
4099	2.223	34.885	5.86	46.1	1.503	21.83	1.871	27.890	41.544	40353
4303	2.153	34.877	5.81	48.7	1.55	22.13	1.780	27.890	41.552	4233
4502	2.098	34.872	5.83	51.7	1.58	22.4	1.703	27.892	41.560	4428
4709	2.043	34.8613	5.833	53.8	1.59	22.7	1.625	27.889	41.564	4629
5003	2.018	34.8563	5.76	56.6	1.64	23.2	1.564	27.890	41.570	49143

OCEANUS 133 STA-248
DATE 8/ 5/83

LAT= 21 30.0N LON= 52 0.5W

SONIC DEPTH= 4702m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1	25.035	37.157	4.05	25.035	24.963	31.210	37.255	0.003	-0.94	1
25	24.700	37.130	4.51	24.695	25.047	31.301	37.352	0.074	4.81	25
50	24.212	37.146	4.66	24.201	25.208	31.471	37.532	0.145	3.86	50
75	23.985	37.144	4.66	23.969	25.277	31.545	37.610	0.214	3.06	75
100	23.562	37.143	4.61	23.541	25.402	31.679	37.752	0.281	4.15	99
150	22.329	37.108	4.43	22.299	25.737	32.039	38.137	0.404	4.60	149
200	20.581	36.913	4.08	20.543	26.077	32.420	38.556	0.513	4.34	199
300	17.764	36.478	4.35	17.713	26.477	32.890	39.094	0.692	2.64	298
400	15.903	36.174	3.96	15.839	26.689	33.152	39.404	0.850	2.74	397
500	13.873	35.862	3.40	13.800	26.896	33.419	39.726	0.989	2.78	496
600	12.147	35.632	3.50	12.066	27.068	33.643	40.000	1.110	2.20	595
800	8.366	35.135	3.13	8.279	27.338	34.038	40.515	1.315	2.09	794
1000	6.211	34.918	3.43	6.118	27.473	34.251	40.803	1.477	1.57	991
1250	5.252	34.989	4.54	5.143	27.650	34.463	41.048	1.646	1.48	1239
1500	4.634	35.031	5.54	4.507	27.756	34.593	41.201	1.783	1.07	1485
1750	4.108	35.022	5.79	3.963	27.808	34.665	41.293	1.904	0.89	1732
2000	3.698	35.008	5.77	3.535	27.840	34.715	41.359	2.017	0.71	1978
2500	3.087	34.964	5.82	2.885	27.867	34.768	41.438	2.232	0.57	2470
3000	2.732	34.935	5.89	2.487	27.879	34.797	41.482	2.443	0.46	2960
3500	2.510	34.914	5.87	2.217	27.885	34.814	41.510	2.657	0.45	3450
4000	2.261	34.889	5.87	1.920	27.890	34.831	41.539	2.872	0.43	3938
4500	2.136	34.873	5.80	1.740	27.890	34.839	41.555	3.090	0.36	4425
4777	2.064	34.861	5.81	1.637	27.889	34.842	41.562	3.213	0.41	4695

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
5	24.993	37.153	4.80	0.6	0.04	0.1	24.992	24.974	37.268	5
100	23.755	37.241	4.85	0.4	0.03	0.1	23.734	25.420	37.761	100
246	18.823	36.642	4.35	0.8	0.16	3.6	18.779	26.335	38.898	244
401	16.013	36.191	4.07	2.8	0.58	10.0	15.948	26.677	39.387	398
600	12.053	35.628	3.59	7.7	1.14	18.7	11.973	27.083	40.021	596
796	8.434	35.150	3.23	16.8	1.75	27.1	8.348	27.339	40.511	790
1001	6.201	34.918	3.53	22.6	1.97	29.6	6.108	27.474	40.805	992
1201	5.400	34.969	4.34	20.4	1.72	25.6	5.293	27.616	41.004	1190
1395	4.949	35.029	5.21	15.8	1.43	21.2	4.828	27.718	41.139	1381
1592	4.463	35.029	5.67	14.8	1.33	19.7	4.328	27.774	41.232	1576
1802	4.048	35.024	5.71	17.2	1.33	19.6	3.898	27.816	41.307	1783
1996	3.665	35.010	5.71	21.2	1.37	20.1	3.503	27.845	41.366	1974
2199	3.420	34.990	5.78	24.1	1.37	20.0	3.242	27.854	41.396	2174
2402	3.196	34.974		26.9	1.38	20.2	3.002	27.864	41.425	2373
2597	3.029	34.959	5.80	28.9	1.39	20.4	2.819	27.869	41.445	2565
2899	2.832	34.941	6.12	31.3	1.41	20.5	2.595	27.875	41.469	2861
3207	2.662	34.927	6.25	33.7	1.42	20.5	2.397	27.880	41.491	3163
3498	2.504	34.913	5.84	38.8	1.46	21.2	2.212	27.885	41.510	3448
3801	2.358	34.897	5.87	41.8	1.47	21.3	2.036	27.886	41.526	3744
4102	2.226	34.881	5.80	47.0	1.53	22.0	1.874	27.886	41.540	4037
4308	2.184	34.878	5.85	48.6	1.54	22.0	1.806	27.889	41.549	4238
4508	2.136	34.878	5.83	49.1	1.55	22.3	1.739	27.894	41.559	4433
4708	2.074	34.869	5.77	52.1	1.57	22.6	1.655	27.894	41.566	4628
4781	2.064	34.861	5.80	54.0	1.59	22.8	1.637	27.889	41.562	4698

OCEANUS 133 STA-249 LAT= 22 0.5N LON= 51 59.2W SONIC DEPTH= 5410m
DATE 8/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	24.849	37.153	3.70	24.849	25.017	31.2682	37.316	0.003	1.292	1
25	24.887	37.175	4.53	24.882	25.024	31.2742	37.322	0.073	-0.472	25
50	24.749	37.174	4.57	24.738	25.0672	31.320	37.370	0.1472	5.40	50
75	24.069	37.227	4.61	24.053	25.314	31.580	37.643	0.2162	4.05	75
100	23.637	37.185	4.59	23.616	25.413	31.688	37.7592	0.2822	3.89	99
150	22.617	37.133	4.47	22.587	25.674	31.9702	38.0622	0.407	4.702	149
200	20.426	36.884	4.01	20.388	26.097	32.4442	38.5832	0.5162	4.322	199
300	17.683	36.4682	4.03	17.632	26.489	32.9052	39.1102	0.695	3.05	298
400	15.741	36.144	3.72	15.678	26.703	33.171	39.427	0.8492	2.392	397
500	13.830	35.856	3.34	13.757	26.901	33.4242	39.7332	0.988	2.432	496
600	12.104	35.627	3.35	12.023	27.072	33.6482	40.007	1.1112	2.462	595
800	8.794	35.118	3.08	8.208	27.335	34.038	40.5172	1.3122	1.992	793
1000	6.168	34.918	3.422	6.075	27.4792	34.258	40.8122	1.4752	1.552	991
1250	5.292	34.987	4.482	5.182	27.644	34.456	41.039	1.6432	1.402	1238
1500	4.644	35.023	5.382	4.516	27.7492	34.586	41.193	1.7812	1.112	1485
1750	4.124	35.020	5.73	3.979	27.8052	34.662	41.289	1.9032	0.852	1732
2000	3.705	35.005	5.75	3.541	27.8372	34.712	41.3562	2.0182	0.752	1978
2500	3.071	34.961	5.79	2.8692	27.866	34.7682	41.438	2.233	0.57	2470
3000	2.768	34.937	5.852	2.522	27.878	34.7942	41.4782	2.4442	0.452	2960
3500	2.5292	34.917	5.86	2.2362	27.8862	34.8142	41.5092	2.6592	0.462	3450
4000	2.2742	34.8922	5.862	1.932	27.890	34.831	41.539	2.8752	0.452	3938
4500	2.128	34.872	5.832	1.732	27.890	34.840	41.5552	3.093	0.33	4425
5000	2.077	34.860	5.83	1.6222	27.889	34.8432	41.5642	3.3182	0.312	4911
5447	2.0632	34.8512	5.842	1.5522	27.887	34.8442	41.5672	3.5272	0.142	5345

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	24.921	37.1922	4.81	0.7	0.05	0.12	24.921	25.025	37.321	1
107	23.591	37.2512	4.86	0.4	0.04	0.1	23.569	25.477	37.824	106
255	18.845	36.6682	4.20	1.0	0.21	4.22	18.799	26.3502	38.9112	253
403	15.765	36.156	3.94	3.22	0.63	10.82	15.701	26.7072	39.430	400
599	12.359	35.666	3.66	7.32	1.11	18.02	12.277	27.0532	39.9732	594
806	8.226	35.134	3.19	17.22	1.78	27.52	8.140	27.358	40.5452	799
1002	6.072	34.915	3.54	23.02	1.98	29.82	5.9802	27.4882	40.8282	993
1200	5.427	34.977	4.27	20.42	1.73	25.62	5.321	27.6192	41.0052	1189
1398	4.820	35.023	5.17	16.22	1.44	21.22	4.7002	27.728	41.1582	1385
1597	4.374	35.024	5.61	15.62	1.352	19.92	4.2402	27.7802	41.2452	1581
1898	3.900	35.053	5.64	18.02	1.332	19.52	3.7432	27.8552	41.3572	1878
2199	3.413	35.000	5.71	23.32	1.382	20.12	3.2352	27.8632	41.4052	2174
2398	3.192	34.976	5.77	26.42	1.39	20.22	2.9982	27.8662	41.4282	2370
2801	2.860	34.949	5.83	30.32	1.392	20.22	2.633	27.8782	41.469	2765
3103	2.730	34.936	5.85	32.22	1.402	20.42	2.4742	27.8812	41.4852	3061
3404	2.579	34.922	5.91	35.02	1.422	20.52	2.2952	27.8852	41.5042	3356
3705	2.420	34.9062	5.83	41.42	1.482	21.22	2.107	27.8882	41.5222	3650
4007	2.272	34.894	5.83	44.2	1.502	21.52	1.9292	27.8922	41.5412	3945
4301	2.177	34.880	5.83	48.12	1.522	21.92	1.803	27.891	41.551	4231
4604	2.112	34.8712		51.32	1.57	22.32	1.705	27.8912	41.559	4526
4907	2.0912	34.8662	5.79	53.42	1.582	22.52	1.647	27.8922	41.564	4820
5208	2.0552	34.8582	5.80	55.8	1.61	22.92	1.5742	27.8912	41.570	5113
5406	2.0592	34.859	5.72	56.22	1.612	23.0	1.5532	27.893	41.574	5305
5456	2.0642	34.8582		56.22	1.622	23.12	1.5512	27.8932	41.573	5354

OCEANUS 133 STA-250
DATE R/ 5/83

LAT= 22 30.1N LON= 51 59.0W

SONIC DEPTH= 4823m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cdh	DE m
3	24.539	36.946	4.43	24.538	24.955	31.214	37.270.	0.009	0.50	3
25	24.585	36.975	4.54	24.579	24.965	31.222	37.277	0.075	2.39	25
50	23.703	36.897	4.68	23.692	25.172	31.447	37.520	0.148	6.14	50
75	23.055	36.881	4.74.	23.040	25.351	31.640.	37.726	0.216	4.41	75
100	22.498	36.847	4.75.	22.478	25.488	31.789	37.886	0.281	3.48	99
150	21.830	37.002	4.27.	21.800	25.798	32.112.	38.221	0.402	5.47.	149
200	18.898	36.605	4.23.	18.862	26.285	32.669	38.845	0.503	4.12	199
300	17.521	36.451	4.40.	17.470	26.516	32.935	39.145	0.671	1.97	298
400	16.374	36.263	4.35.	16.309.	26.649	33.099	39.339	0.828	2.53	397
500	14.365.	35.942.	3.90.	14.290.	26.854	33.362	39.655	0.971	2.42	496
600	12.768.	35.726.	3.71.	12.685.	27.020	33.575	39.914	1.099	2.62	595
800	8.776	35.205.	3.28.	8.687	27.329	34.015	40.478	1.307	2.15	793
1000	6.289	34.973.	3.69.	6.195.	27.506	34.281	40.829.	1.469	1.78.	991
1250	5.226	35.018.	4.83	5.117.	27.676	34.490	41.076	1.629	1.47	1238
1500	4.475	35.025.	5.55.	4.349.	27.769	34.611.	41.225	1.759	0.97	1485
1750	4.047	35.020.	5.80.	3.903.	27.812	34.672.	41.302.	1.877	0.86	1732
2000	3.636	35.004.	5.79	3.474.	27.843	34.720.	41.367.	1.988	0.70	1978
2500	3.086	34.964.	5.78.	2.885.	27.867	34.768	41.438.	2.202.	0.54	2470
3000	2.749	34.937.	5.84.	2.503	27.880	34.797	41.481.	2.413	0.48	2960
3500	2.477	34.914.	5.88.	2.185.	27.888	34.818	41.516	2.626	0.49.	3450
4000	2.236	34.888.	5.83.	1.895.	27.890	34.833	41.542.	2.838	0.39	3938
4500	2.128	34.872.	5.82.	1.732.	27.890	34.840	41.556	3.055	0.33	4425
4893	2.095	34.865	5.79.	1.653.	27.890	34.843	41.562	3.231	0.29	4807

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
11	24.646	36.949	4.88	0.5.	0.04	0.1	24.643	24.926	37.236.	11
93	22.586	36.850	4.97	0.2.	0.03	0.1	22.567	25.464	37.858	93
241	18.052	36.514	4.49.	0.8.	0.19.	4.1	18.010	26.431	39.033.	240
394	16.738	36.322.	4.59.				16.673	26.608	39.279	391
597	12.859	35.236.	3.84.	5.6	0.97	15.8	12.776.	26.621	39.521	592
795	8.897.	34.974.	3.36.	14.6	1.62	25.1	8.809.	27.129	40.275	789
994	6.292	35.015.	3.81.	20.1	1.85	27.3	6.198.	27.539	40.861	985
1198	5.382.	35.046.	4.74.	17.2	1.56	23.1.	5.276	27.679	41.067	1187
1393	4.791	35.028.	5.45.	14.2.	1.36	20.1.	4.672	27.735	41.168	1380
1592.	4.306.	35.026.	5.77.	14.5.	1.32	19.4.	4.173	27.789	41.258	1575.
1793.	3.980	35.001	5.81	16.6.	1.32	19.2.	3.833	27.805	41.301	1774
2097.	3.498	34.978	5.78	22.2.	1.37	20.0.	3.329	27.837	41.372	2073
2393.	3.188.	34.957.	5.82	26.5.	1.39	20.1.	2.996	27.851.	41.413	2364
2695.	2.931.	34.942	5.81	30.0	1.39	20.4.	2.713.	27.865	41.450	2660
2996.	2.747.	34.929.	5.85	32.0.	1.40	20.4.	2.502.	27.873.	41.475	2956
3295.	2.599.	34.913.	5.88	34.8	1.42	20.7.	2.326	27.875.	41.492	3248
3604	2.423	34.904	5.96	37.6	1.44	20.7.	2.121	27.885	41.518	3551
3803	2.321	34.893	5.92.	41.1	1.47	21.2	2.000.	27.886	41.529	3746.
4008	2.220	34.887.	5.85	45.4	1.49	21.7.	1.879.	27.891	41.544	3946
4203.	2.181	34.886.	5.82.	47.5	1.54	21.9.	1.818.	27.895	41.553	4135
4406.	2.146	34.879	5.81.	49.4	1.54	22.1.	1.761	27.894	41.557	4334
4607.	2.111	34.880.	5.81.	50.1	1.55	22.4.	1.703.	27.899	41.567	4529.
4803.	2.104	34.872	5.78.	52.4	1.57	22.6	1.673.	27.895	41.565	4719
4904.	2.096	34.872.	5.79.	52.8	1.59	22.7.	1.652.	27.896	41.568	4818.

OCEANUS 133 STA-251
DATE 8/ 5/83

LAT= 22 56.1N LON= 51 58.9W

SONIC DEPTH= 5221m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	24.790	35.930	3.12	24.790	24.110	30.372	36.432	0.004.	12.80	1
25	24.687	36.970	4.50	24.682	24.930	31.185	37.238	0.078.	1.60	25
50	24.629	36.972	4.55	24.618	24.951.	31.207	37.262.	0.154.	5.64	50
75	22.866	36.853	4.77	22.851	25.384	31.678	37.767	0.223.	5.26	75
100	22.729	36.876	4.67	22.209	25.587	31.893	37.995.	0.286	5.00	99
150	20.427	36.724	4.53	20.398	25.972	32.320	38.460	0.399.	4.78	149
200	18.492	36.551	4.32	18.457	26.347	32.741	38.927	0.494.	3.15	199
300	17.368	36.432	4.52	17.318	26.538	32.961	39.175	0.659.	1.81	298
400	16.616	36.312	4.53	16.550	26.630	33.074	39.307	0.816.	2.23	397
500	14.511	35.953	4.24	14.436	26.831	33.335	39.625	0.962.	2.64	496
600	12.596	35.684	4.04	12.513	27.021	33.582	39.927	1.091.	2.58	595
800	8.981	35.235	3.27	8.891	27.320	33.999	40.456	1.300.	2.15	793
1000	6.457	35.017	3.71	6.362	27.519	34.287	40.829	1.462.	1.81	991
1250	5.271	35.055	4.88	5.161	27.700	34.512	41.096.	1.619	1.36	1238
1500	4.602	35.054	5.47	4.475	27.778	34.616	41.224	1.748.	1.03	1485
1750	4.115	35.048	5.65	3.970	27.827	34.685	41.312	1.864.	0.84	1732
2000	3.690	35.016	5.70	3.527	27.847	34.722	41.367.	1.974.	0.69	1978.
2500	3.054	34.964	5.74.	2.853	27.870	34.773	41.443	2.185	0.55	2470
3000	2.710	34.934	5.80.	2.466	27.880	34.799	41.485	2.395	0.49	2960
3500	2.439	34.911	5.85.	2.149	27.889	34.821	41.519	2.604	0.45	3449
4000	2.243	34.891	5.87	1.902	27.892	34.835.	41.544	2.816.	0.39	3938.
4500	2.124	34.873	5.81	1.729	27.891	34.841.	41.557	3.032.	0.30	4425.
5000	2.099	34.863	5.80	1.643	27.890	34.843	41.563.	3.257.	0.23	4911
5285	2.103	34.858.	5.78	1.611	27.888	34.843	41.564.	3.390.	0.23	5188

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
0	24.840	36.976	4.84	0.6.	0.05.	0.0	24.840.	24.886	37.189	0
95	22.333	36.950	4.85	0.1.	0.04.	0.0	22.314	25.613	38.016	95
242	17.837	36.486	4.64	0.9.	0.22.	4.2	17.795.	26.463	39.075	240
394	16.766	36.339	4.74	1.6.	0.35.	6.0	16.701	26.615	39.284	391
595	12.833	35.720.	4.18	5.6.	0.91.	14.7	12.750	27.002	39.893	590
794	9.433	35.294	3.45	13.5	1.56.	24.2.	9.341	27.293	40.398	787
996	6.518	35.019	3.74	19.3.	1.82	26.9.	6.423	27.513	40.819.	987
1192	5.514	35.040	4.71	17.1.	1.56	23.1	5.407	27.659	41.037.	1181
1392	4.861	35.058	5.30.	15.5.	1.41	20.6.	4.742	27.751	41.178.	1378
1591	4.451	35.054.	5.62.	15.7.	1.35	19.8.	4.317.	27.795	41.254.	1575.
1793	4.052	35.044	5.65.	18.4.	1.35	19.7.	3.904.	27.831	41.321.	1774.
2092	3.529	35.034	5.64	22.2.	1.37	19.9.	3.359.	27.878	41.410	2069
2395	3.182	34.975	5.81.	27.3.	1.40	20.2.	2.989.	27.866.	41.428.	2366
2697	2.895	34.953	5.78.	31.6	1.42.	20.6.	2.678.	27.877.	41.464.	2663
2997	2.684	34.935	5.84.	33.7	1.43.	20.6.	2.440	27.883	41.490.	2957
3299	2.516	34.919	5.89	35.4	1.44	20.6.	2.244	27.887	41.510.	3252
3601	2.378	34.905	5.92.	39.0.	1.46	20.8.	2.077	27.889.	41.526	3548
3901	2.274	34.894	5.90	41.4	1.49	21.1	1.943	27.891	41.539	3841
4200	2.171	34.884	5.85.	46.8	1.52	21.7.	1.809	27.894	41.553	4132
4503	2.120	34.871	5.84.	50.2.	1.58	22.3.	1.724	27.890	41.556	4478
4804	2.104	34.865	5.82	52.0.	1.58	22.4	1.672	27.889	41.560.	4720
5002	2.097	34.863	5.79	52.8.	1.60.	22.7.	1.641	27.890	41.563.	4913
5203	2.101	34.859	5.78	54.1.	1.61.	22.9	1.619	27.888	41.563	5108
5292	2.104	34.860	5.78	54.3.	1.61.	23.0	1.611	27.890.	41.565	5194

OCEANUS 133. STA-252
DATE 8/ 5/83

LAT= 23 30.5N LON= 51 59.2W

SONIC DEPTH= 4914m

PR	T	S	O2	Θ	SIG-Θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	24.177	36.865	4.61	24.177	25.003	31.269	37.333.	0.003	0.34	1
25	24.093	36.866	4.54	24.087	25.031	31.299	37.364.	0.074	6.25	25
50	23.343.	37.119	4.75	23.332	25.446	31.727	37.805.	0.141.	4.51	50
75	22.839	37.090.	4.74	22.823	25.572	31.864	37.952.	0.204.	4.53	75
100	21.850	36.967.	4.66	21.830.	25.762	32.076	38.185.	0.263.	4.77	99
150	20.058.	36.803.	4.17	20.030.	26.131	32.486	38.634.	0.368.	4.60	149
200	18.505.	36.585.	4.16	18.470.	26.370	32.764.	38.949	0.459.	3.11	199
300	16.997	36.366.	4.30	16.947	26.577	33.010	39.233.	0.621	2.12	298
400	15.496	36.115.	4.14	15.433	26.736	33.211.	39.474	0.772.	2.58	397
500	13.520.	35.815.	4.09	13.448	26.934.	33.466	39.784	0.907.	2.41	496
600	11.997.	35.618.	3.78	11.917	27.086	33.665	40.027	1.027.	2.42	595
800	8.599	35.202.	3.34	8.512	27.355	34.046	40.515	1.226.	2.08	793
1000	6.286	35.006.	3.79	6.192	27.533	34.307	40.856	1.383.	1.71	991
1250	5.269	35.055.	4.91.	5.159	27.701	34.512	41.096	1.537.	1.35	1238
1500	4.625	35.062.	5.45.	4.498	27.782	34.619	41.227.	1.665.	1.03	1485
1750	4.115	35.046.	5.62.	3.970.	27.826	34.683	41.311.	1.780.	0.80	1732
2000	3.662	35.016.	5.68.	3.499.	27.850	34.726	41.372.	1.890.	0.71	1978
2500	2.997.	34.960.	5.74.	2.797.	27.872	34.777	41.449	2.100.	0.51	2469
3000	2.705.	34.934	5.75.	2.461.	27.881	34.799	41.486	2.308.	0.48	2960
3500	2.392	34.906	5.80.	2.102.	27.888	34.822.	41.523	2.517	0.44	3449
4000	2.214.	34.887.	5.82.	1.873.	27.891	34.835	41.545.	2.728	0.39	3938
4500	2.111.	34.871.	5.80.	1.715.	27.891	34.841	41.557	2.943.	0.28.	4425
4993	2.098.	34.863.	5.76.	1.643.	27.890	34.843	41.563.	3.165.	0.23	4904

PR	T	S	O2	SIL	PHOS	NO3	Θ	SIG-Θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
14	24.120	36.847	4.82	0.5	0.04	0.0.	24.117	25.007	37.340	14
98	22.051	37.038	4.81	0.1	0.04.	0.1	22.031	25.760	38.173	98
244	17.634.	36.467	4.48	1.1.	0.28.	5.2.	17.592	26.498.	39.121	242
338	16.553.	36.304	4.46	1.9.	0.40.	7.1.	16.497	26.636	39.316.	336
590	12.313	35.673	3.94.	6.5.	1.03	16.4.	12.233	27.067	39.989	585
796	8.458.	35.226	3.45	15.0.	1.62.	25.0.	8.372	27.395	40.564	789
987	6.331.	35.004	3.86	19.6.	1.80.	26.6.	6.238	27.525.	40.845	979
1173	5.481.	35.041	4.70	17.0.	1.53.	22.7.	5.377	27.663	41.043	1162
1389	4.860.	35.067	5.24	15.6.	1.41.	20.7.	4.741	27.758	41.185.	1375
1586	4.423.	35.057	5.55	16.3.	1.36	19.8.	4.290	27.801	41.261	1570
1790	4.048.	35.044	5.62	18.9	1.36	19.9	3.900	27.832	41.322.	1771
2088	3.515.	35.003	5.66	23.7	1.39.	20.1.	3.346	27.855	41.388	2065.
2379	3.114.	34.974	5.70	28.1	1.41.	20.4	2.924.	27.872	41.439	2351
2696	2.898	34.953	5.73	31.9	1.42	20.6.	2.680	27.877	41.464	2662
2998	2.706	34.937	5.74	34.7	1.43.	20.9	2.461	27.883	41.488	2958
3292	2.529	34.919.	5.74.	38.0	1.46.	21.1.	2.258	27.886	41.507	3246
3596	2.351	34.901.	5.80.	41.6	1.49.	21.3	2.052	27.888	41.527.	3543
3874	2.267.	34.891.	5.81.	44.0	1.50	21.5.	1.940	27.889	41.537.	3814
4099	2.186	34.885.	5.79.	46.2	1.51.	21.8.	1.835	27.893	41.549.	4034
4296	2.134	34.876.	5.78.	48.5.	1.56	22.1	1.762	27.891.	41.554	4226
4500.	2.112	34.869.	5.79.	50.5	1.57.	22.3.	1.717	27.889.	41.556	4425
4709	2.101	34.874.	5.80.	50.0	1.57.	22.4	1.681	27.896.	41.565	4628
4904	2.098.	34.868.	5.76.	52.9	1.59.	22.7	1.654	27.893.	41.565	4817
4999	2.099.	34.862.	5.77.	53.3	1.60.	22.8	1.644.	27.889	41.562	4909.

OCEANUS 133 STA-253 LAT= 24 0.0N LON= 52 0.0W. SONIC DEPTH= 6030m
 DATE 9/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3.	HGTH	N	DF
dbar	Deg C	o/oo	m/l/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	23.766	36.924	4.55	23.765	25.170	31.444	37.515.	0.008	1.05	3
25	23.700	36.931	4.63	23.695	25.197.	31.472	37.544.	0.070	2.32	25
50	22.717	36.885.	4.78	22.707	25.450	31.746	37.838	0.137	6.86	50
75	21.964	36.882	4.74	21.949	25.665.	31.977	38.084	0.198	4.81	75
100	21.534	36.939	4.58	21.514	25.830	32.151	38.266	0.255.	4.94	99
150	19.750	36.745	4.16	19.722	26.168	32.531	38.686	0.357.	4.21	149.
200	18.442	36.570	4.13	18.407	26.374	32.769	38.956	0.446.	2.72	199.
300	16.862	36.335	4.07	16.813	26.586	33.023	39.249	0.610.	2.31.	298.
400	15.476	36.110	4.07	15.413	26.737	33.212	39.475	0.760.	2.61	397
500	13.653	35.834	3.86	13.581	26.921	33.449	39.763	0.895.	2.35.	496
600	12.158	35.633	3.65	12.078	27.067	33.641	39.998	1.016.	2.16.	595
800	8.716	35.213	3.37	8.628	27.345	34.033	40.498	1.222.	2.23.	793
1000	6.322	35.002	3.78	6.228	27.525	34.298	40.845.	1.379.	1.73.	991
1250	5.392	35.057	4.82	5.281	27.687	34.494	41.074	1.536.	1.41	1238
1500	4.715	35.083	5.42	4.586	27.788	34.621	41.226	1.665.	1.08.	1485
1750	4.067	35.045	5.64	3.922	27.830	34.689	41.318	1.780.	0.82.	1732
2000	3.596	35.010	5.71	3.434	27.852	34.731	41.379	1.889.	0.67	1978
2500	3.061	34.964	5.74	2.860	27.870	34.772	41.442	2.098	0.53	2469
3000	2.711	34.935	5.74	2.466	27.881	34.799	41.485	2.307	0.49	2960
3500	2.423	34.908	5.78	2.133	27.888	34.820.	41.520	2.518	0.47	3449
4000	2.235	34.888	5.81	1.894	27.891	34.833	41.542	2.729	0.36	3937
4500	2.117	34.872	5.80	1.722	27.891	34.841	41.557	2.945	0.31.	4425
5000	2.105	34.863.	5.80	1.649	27.890	34.843	41.562.	3.170	0.19	4911
5500	2.131.	34.858	5.78	1.610	27.888	34.843	41.564.	3.408	0.09	5396
6000	2.190	34.856.	5.82	1.600	27.888	34.843.	41.564	3.660	0.07	5880
6141	2.210.	34.856	5.83	1.600	27.887	34.843	41.564	3.734	0.03	6016

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	m/l/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	23.745	36.949	4.94	0.0	0.04	0.2	23.744	25.196	37.541	5
99	21.828	36.972	4.90	0.0	0.03	0.2.	21.808	25.773	38.196	99
246	17.643	36.461	4.41	0.8	0.29	4.7	17.601	26.491.	39.114	244
398	15.516	36.121	4.25	2.4	0.54	8.1	15.453	26.736.	39.472	395
697	10.648	35.439	3.65	10.0	1.34	18.4	10.561	27.197	40.223	691
997	6.369	35.007	3.91	18.9.	1.78		6.275	27.523	40.840	988
1293	5.230	35.068	5.05	15.4	1.46		5.116	27.716	41.114.	1281
1600	4.503	35.072	5.51	16.0.	1.35		4.367	27.804	41.258.	1584
1899	3.808	35.027	5.72	20.0.	1.36		3.653	27.844	41.353	1878
2200	3.335	34.990	5.79	24.9.	1.40		3.158	27.862	41.411	2174
2499	3.047	34.973	5.76	28.2.	1.40		2.847	27.878.	41.451.	2468
2795	2.857	34.951	5.74	32.2.	1.44		2.630	27.880.	41.471	2759
3094	2.663	34.929	5.79	35.7.	1.45		2.409	27.881	41.490	3052
3400	2.482.	34.914	6.06	38.8.	1.46		2.201	27.887	41.513	3351
3697	2.330.	34.899	5.85	41.8.	1.48.		2.020	27.889	41.531	3642
4009	2.243.	34.888	5.99	44.5	1.50.		1.901	27.890	41.541	3946
4306	2.168.	34.880	5.85	46.7	1.52		1.794.	27.892	41.552	4236
4602	2.111.	34.868	5.79	50.7	1.56		1.703.	27.889	41.557.	4524
4902	2.102.	34.863	5.77	52.3	1.56		1.659	27.889.	41.560.	4815
5211	2.107	34.860.	5.77	53.7.	1.60		1.624	27.889.	41.563.	5116
5515	2.130	34.859.	5.77	54.5.	1.59		1.607	27.889	41.565.	5410
5816	2.167	34.861	5.76	53.8	1.60		1.602	27.891	41.568.	5707
6007	2.191	34.855	5.76	54.7	1.61		1.600	27.886	41.563.	5887
6146	2.211	34.864	5.77	54.1	1.60		1.600	27.894	41.570.	6020

OCEANUS 133 STA-254
DATE 9/ 5/83

LAT= 24 31.0N LON= 52 0.2W

SONIC DEPTH= 4985m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cdh	DE m
3	23.818	37.066	4.55	23.818	25.262	31.534	37.602	0.008	-0.38.	3
25	23.733	37.065	4.60	23.728	25.288	31.562	37.632	0.068	4.72.	25
50	22.526	36.848	4.79	22.515	25.478	31.778.	37.874	0.132	2.88	50
75	22.403	36.916	4.73	22.388	25.566	31.868	37.966	0.194	3.87.	75
100	22.294	37.028	4.67	22.274	25.683	31.987.	38.087	0.254	3.60.	99
150	20.946	36.824	4.53	20.917	25.907	32.242.	38.371	0.367.	4.29.	149
200	19.204.	36.659.	4.23	19.167	26.248	32.624.	38.793	0.467.	4.37.	199
300	17.403.	36.435.	4.53	17.352.	26.532	32.955.	39.167	0.634.	1.96.	298
400	16.441.	36.278.	4.40	16.376.	26.644	33.093	39.331.	0.791	2.31.	397
500	14.523	35.958.	4.16	14.448.	26.833	33.336.	39.625	0.936.	2.53	496
600	12.694	35.698.	3.96	12.611.	27.013	33.570.	39.912	1.064	2.32.	595
800	9.214	35.263.	3.41	9.123	27.305	33.975	40.424	1.278.	2.28.	793
1000	6.614	35.041.	3.79	6.518	27.517	34.279	40.816	1.442.	1.83	991
1250	5.527	35.085.	4.71	5.415	27.693	34.495	41.070	1.600	1.39	1238
1500	4.769	35.083.	5.41	4.640	27.783	34.614	41.216	1.730.	1.01.	1485
1750	4.285	35.072.	5.58	4.138	27.829	34.679	41.300	1.847.	0.89	1732
2000	3.627	35.014.	5.72	3.464	27.852	34.730	41.376	1.957.	0.71	1978
2500	3.040	34.965.	5.74	2.839.	27.872	34.775	41.446	2.167.	0.51	2469
3000	2.754	34.938.	5.75	2.508.	27.880	34.796	41.481	2.377.	0.50	2960
3500	2.449	34.910	5.79	2.158.	27.887	34.818	41.517	2.588	0.47	3449
4000	2.251	34.890.	5.81	1.909.	27.891	34.833	41.542.	2.800.	0.38	3937
4500	2.121	34.872.	5.76	1.726.	27.891	34.841	41.557	3.017	0.36.	4424
4543	2.118	34.873.	5.77	1.718.	27.892	34.842	41.559	3.036	0.34	4466

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
1	23.836	37.072	4.95	0.4	0.04	0.1	23.835	25.262	37.601	1
100	22.252	37.021	5.07	0.1.	0.04	0.1	22.232	25.690	38.095	99
248	17.757	36.475	4.66	0.9.	0.23	4.5	17.714	26.474	39.091	246
397	16.816	36.353	4.83	1.5.	0.31	5.7	16.750	26.614	39.280	394
605	12.741	35.702	4.08	6.0.	0.96	15.4	12.658	27.006	39.903	600
802	8.867	35.221	3.50	14.6	1.59	24.7	8.777	27.327	40.470	796
1005	6.544	35.035	3.94	18.6	1.73	26.1	6.448	27.522.	40.826	996
1197	5.682	35.083	4.68	16.8	1.51	22.7	5.573	27.672	41.037	1186
1400	5.120	35.112	5.24	15.7.	1.38	20.6	4.997	27.765	41.171	1386
1600	4.596	35.083	5.58	16.5.	1.36	20.1	4.460	27.803	41.250	1583
1801	4.170	35.074	5.60	18.6.	1.33	19.7	4.019	27.843	41.324	1782
2002	3.637	35.019	5.69	22.0.	1.36	20.0	3.475	27.855	41.378	1979
2287	3.241	34.981	5.74	26.7.	1.38	20.2	3.057	27.865	41.421	2260
2601	2.975	34.962	5.78	30.8.	1.40	20.5	2.765	27.876	41.456	2569.
2905	2.822	34.944	5.78	33.3.	1.41	20.8	2.585	27.878	41.473	2866
3100	2.689	34.932	5.78	35.3.	1.43	20.7	2.435	27.881	41.488	3057
3304	2.549	34.920	5.80	37.5.	1.44	20.8	2.276	27.885	41.505	3257
3502	2.442	34.909	5.86	39.8.	1.46	21.1	2.150	27.887	41.517	3451
3703	2.350.	34.901	5.84	41.5.	1.45	21.1	2.039	27.889	41.529	3647.
3885	2.280.	34.897	5.85	43.4.	1.49	21.4	1.951	27.893	41.540	3825
4101	2.216.	34.887	5.81	45.8.	1.50	21.4.	1.864.	27.892	41.546	4035
4304	2.167.	34.883	5.84	47.3.	1.52	21.9	1.793.	27.894	41.554	4233
4487	2.121.	34.878	5.79.	50.1.	1.55	22.3.	1.727.	27.895	41.561	4411
4549.	2.119.	34.879	5.83.	49.5.	1.56	22.3.	1.718	27.897	41.563	4472

OCEANUS 133 STA-255 LAT= 25 0.0N LON= 51 59.8W SONIC DEPTH= 5400m
DATE 9/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	23.393	37.019	3.98.	23.392	25.353	31.633	37.710	0.003	-1.54	1
25	23.401	37.007	4.62.	23.396	25.342	31.623.	37.700	0.066	1.04.	25
50	23.342.	37.008	4.67.	23.331	25.362	31.644.	37.723	0.132	3.68.	50
75	22.683	37.003	4.73.	22.668	25.552	31.848	37.939	0.195.	4.01.	75
100	22.273	36.979	4.74.	22.253	25.652	31.957.	38.057	0.255.	4.03	99
150	21.161.	36.920.	4.44	21.132	25.922.	32.251.	38.375	0.368.	4.96.	149
200	18.758.	36.597.	4.23	18.722	26.315.	32.703.	38.882	0.466	3.47	199
300	17.576.	36.458.	4.45	17.525	26.507	32.925.	39.134	0.634.	1.94.	298
400	16.702.	36.320.	4.39	16.636	26.616	33.057.	39.288	0.793.	2.12	397
500	14.951.	36.026.	3.97	14.874	26.792.	33.283.	39.561	0.943.	2.60.	496
600	13.274.	35.785.	3.73	13.189.	26.964	33.504.	39.829.	1.075.	2.34.	595
800	9.735.	35.324.	3.37	9.641.	27.267.	33.920.	40.352.	1.298.	2.27.	793
1000	7.005.	35.082.	3.71	6.906	27.497	34.245.	40.768.	1.471.	1.94.	991
1250	5.441.	35.057.	4.79	5.329.	27.681.	34.487.	41.065.	1.634.	1.52.	1238
1500	4.752.	35.071.	5.40	4.623.	27.775.	34.607.	41.210.	1.765.	0.99.	1485
1750	4.280.	35.067.	5.57	4.132.	27.826.	34.677.	41.298.	1.884.	0.88.	1731
2000	3.750.	35.027	5.65	3.586.	27.850.	34.722.	41.364.	1.995.	0.72.	1978
2500	3.101.	34.970.	5.75	2.899.	27.870.	34.771.	41.440.	2.207.	0.53.	2469
3000	2.767.	34.939.	5.75	2.521.	27.880.	34.796.	41.480.	2.419.	0.50.	2960
3500	2.471.	34.913.	5.80	2.179.	27.888.	34.818.	41.516.	2.631.	0.47.	3449
4000	2.262.	34.892	5.82	1.920.	27.892.	34.833.	41.541.	2.844.	0.39.	3937
4500	2.135	34.874.	5.81	1.739.	27.891.	34.840.	41.556	3.061.	0.32.	4424
5000	2.086.	34.862.	5.80	1.631.	27.890.	34.844.	41.564.	3.287.	0.26.	4910
5381	2.103	34.857	5.80	1.599	27.888.	34.843.	41.565.	3.466.	0.17.	5280

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
11	23.503	37.015	4.91	0.4	0.04	0.1.	23.501	25.318	37.671	11
98	22.378	36.997	5.01	0.2.	0.04.	0.1	22.358	25.636	38.036	97
242	18.188	36.525	4.54	0.8.	0.15.	3.4.	18.146	26.405	39.001	240
395	16.745	36.332.	4.64	1.7.	0.33.	6.3.	16.680	26.615	39.284	392
595	13.386	35.803.	3.90	5.4.	0.92	15.1.	13.301	26.955	39.813	591
793	9.956	35.353	3.56.	12.2.	1.45	22.7.	9.861	27.252	40.323	787
994	6.679	35.049.	3.83.	18.5.	1.76	26.3.	6.583.	27.515	40.809	985
1191	5.700	35.042.	4.58.	17.3.	1.59.	23.3.	5.591.	27.638	41.002	1180
1390	5.078	35.083	5.30.	15.3.	1.40.	20.5.	4.956.	27.746	41.156	1376
1590	4.607	35.071	5.48.	16.2.	1.38.	20.1.	4.471.	27.792	41.238	1574.
1795	4.185	35.059	5.57	18.8.	1.35	19.7.	4.035.	27.830	41.309	1776
2096	3.549	35.012	5.72.	23.2.	1.38.	20.1.	3.379.	27.859.	41.390	2072
2392	3.180	34.974	5.78	27.6.	1.39.	20.2.	2.988	27.866.	41.428	2363
2695	2.938	34.953	5.81.	31.4.	1.42.	20.4.	2.719.	27.873.	41.457	2660
2996	2.754.	34.935.	5.82.	34.4.	1.44.	20.7.	2.509.	27.877.	41.478	2956
3303	2.571.	34.917.	5.86	37.4.	1.45.	20.8.	2.298.	27.881.	41.499	3257
3598	2.422.	34.905.	5.93	40.1.	1.47	20.9.	2.121	27.886.	41.519	3545
3907	2.294.	34.901.	5.93.	43.5.	1.50	21.4.	1.962.	27.896.	41.542	3846
4200	2.205	34.881	5.88.	46.3.	1.51	21.5.	1.842.	27.889.	41.545	4132
4499	2.135.	34.871	5.86.	49.8.	1.57.	22.2.	1.739	27.889	41.554	4424
4803	2.105	34.864	5.82.	52.2.	1.58.	22.3.	1.673.	27.888.	41.559	4719
5104	2.086.	34.858	5.82.	54.3.	1.60.	22.7.	1.617.	27.888.	41.563	5011
5305	2.096	34.856	5.79	55.1.	1.62.	22.8.	1.601.	27.887.	41.564	5206
5389	2.104.	34.855	5.89	55.1.	1.62.	22.9.	1.598.	27.887.	41.564	5287

OCEANUS 133 STA-256 LAT= 25 30.0N LON= 52 1.0W3 SONIC DEPTH= 5686m
DATE 9/ 5/83

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
3	23.521	36.952	4.623	23.520	25.264	31.543	37.618	0.0083	1.34	3
25	23.463	36.9563	4.683	23.457	25.285	31.565	37.642	0.067	1.79	25
50	23.117	36.9453	4.76	23.107	25.380	31.667	37.751	0.1343	5.34	50
75	22.644	36.9983	4.79	22.629	25.559	31.855	37.9483	0.1973	4.33	75
100	22.1493	36.9833	4.743	22.129	25.690	31.997	38.100	0.257	4.57	99
150	20.6323	36.8083	4.413	20.603	25.981	32.323	38.459	0.367	4.10	149
200	18.8393	36.6213	4.253	18.803	26.312	32.698	38.8753	0.465	3.79	199
300	17.5193	36.4473	4.39	17.468	26.513	32.9333	39.142	0.633	2.01	298
400	16.6693	36.3153	4.43	16.602	26.619	33.062	39.294	0.7923	2.01	397
500	14.9393	36.0253	4.13	14.862	26.7943	33.285	39.5633	0.9413	2.54	496
600	13.299	35.7873	3.82	13.213	26.960	33.500	39.824	1.074	2.32	595
800	10.0233	35.3433	3.45	9.927	27.233	33.877	40.300	1.3023	2.30	793
1000	6.9183	35.0933	3.88	6.819	27.517	34.268	40.794	1.4763	1.97	991
1250	5.532	35.0993	4.94	5.419	27.704	34.506	41.080	1.6333	1.37	1238
1500	4.782	35.087	5.443	4.653	27.784	34.615	41.217	1.7633	1.05	1485
1750	4.191	35.058	5.633	4.045	27.828	34.6823	41.307	1.8803	0.83	17313
2000	3.7383	35.025	5.713	3.574	27.8503	34.7233	41.366	1.9913	0.67	1978
2500	3.1323	34.972	5.733	2.929	27.8693	34.7683	41.436	2.204	0.52	2469
3000	2.799	34.942	5.753	2.552	27.879	34.794	41.4773	2.4163	0.49	2960
3500	2.4883	34.915	5.813	2.195	27.888	34.8183	41.515	2.6293	0.44	34493
4000	2.3013	34.8953	5.833	1.958	27.8913	34.8313	41.5373	2.8443	0.41	3937
4500	2.1723	34.8773	5.813	1.775	27.891	34.8393	41.5533	3.062	0.29	44243
5000	2.1363	34.8663	5.823	1.679	27.889	34.8413	41.5593	3.2893	0.24	49103
5500	2.1363	34.859	5.823	1.615	27.888	34.843	41.5643	3.5283	0.21	5395
5791	2.151	34.8573	5.823	1.591	27.888	34.844	41.5663	3.673	0.21	5677

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
0	23.496	36.964	5.03	0.33	0.043	0.03	23.496	25.280	37.6353	0
103	22.0383	36.9863	4.97	0.13	0.043	0.03	22.017	25.724	38.139	102
254	17.9983	36.5263	4.36	0.93	0.243	4.63	17.9543	26.4543	39.058	252
397	16.6993	36.3233	4.63	1.63	0.363	6.43	16.6343	26.6193	39.291	394
602	13.3893	35.8003	4.00	5.13	0.88	14.5	13.3033	26.952	39.810	597
806	9.8863	35.3503	3.643	11.83	1.433	22.2	9.790	27.2623	40.337	799
1001	7.3433	35.1613	3.953	16.03	1.623	24.43	7.241	27.512	40.758	902
1200	5.7853	35.099	4.773	15.83	1.49	22.13	5.675	27.672	41.030	1189
1503	4.7923	35.0873	5.48	15.23	1.363	19.9	4.663	27.7833	41.215	1488
1801	4.1083	35.0523	5.65	18.53	1.36	19.8	3.958	27.8323	41.317	1782
2190	3.418	34.996	5.76	24.53	1.383	19.9	3.241	27.859	41.401	21653
2504	3.123	34.970	5.80	28.43	1.413	20.3	2.9203	27.869	41.436	2473
2807	2.9113	34.9513	5.80	31.93	1.433	20.7	2.682	27.875	41.462	2770
3105	2.7283	34.9363	5.80	34.8	1.443	20.83	2.472	27.881	41.485	3063
3404	2.535	34.917	5.85	37.63	1.453	21.03	2.252	27.8853	41.507	3355
3705	2.420	34.907	5.91	39.53	1.473	21.13	2.107	27.8893	41.523	3649
4003	2.306	34.893	5.883	42.93	1.503	21.43	1.962	27.889	41.535	3940
4301	2.205	34.8813	5.873	46.63	1.533	21.9	1.831	27.890	41.547	4230
4601	2.151	34.8733	5.813	49.03	1.543	22.23	1.7433	27.8903	41.555	45233
4910	2.1373	34.8663	5.873	51.33	1.58	22.63	1.691	27.8883	41.557	48233
5205	2.1333	34.8633	5.793	52.83	1.59	22.7	1.650	27.8893	41.562	5109
5505	2.1343	34.8643	5.793	53.23	1.593	22.83	1.613	27.893	41.568	5399
5703	2.1473	34.8573	5.773	54.93	1.623	23.13	1.598	27.8883	41.5653	5591
5796	2.1533	34.8583	5.773	54.93	1.61	23.0	1.592	27.890	41.5673	5681

OCEANUS 133 STA-257 LAT= 26 0.0N2 LON= 51 58.8W SONIC DEPTH= 5170m
DATE 9/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
37	22.776	36.935	4.78	22.769	25.471	31.765	37.855	0.093	0.002	37
25	23.0022	36.9422	4.87	22.997	25.410	31.6992	37.785184	2.594	46.46	25
50	22.376	36.905	4.76	22.366	25.5642	31.8672	37.965	0.125	4.94	50
75	21.633	36.8812	4.80	21.618	25.7572	32.0762	38.190	0.184	4.42	74
100	21.225	36.8432	4.85	21.2052	25.8432	32.1712	38.294	0.239	2.62	99
150	20.434	36.8012	4.35	20.406	26.0282	32.3752	38.515	0.346	4.29	149
200	18.577	36.5632	4.28	18.542	26.335	32.727	38.9112	0.4412	3.37	199
300	17.514	36.449	4.42	17.463	26.516	32.936	39.1452	0.6072	1.87	298
400	16.6512	36.307	4.30	16.585	26.6172	33.061	39.2932	0.7662	2.23	397
500	14.961	36.027	4.00	14.884	26.791	33.281	39.5592	0.9142	2.54	496
600	13.122	35.757	4.08	13.037	26.9722	33.5172	39.847	1.047	2.422	595
800	9.893	35.361	3.622	9.798	27.269	33.916	40.343	1.271	2.342	793
1000	6.9692	35.097	3.87	6.870	27.5142	34.2632	40.7872	1.441	2.042	991
1250	5.5822	35.100	4.892	5.469	27.6982	34.4982	41.071	1.598	1.332	1238
1500	4.7932	35.088	5.44	4.664	27.7842	34.6142	41.215	1.7282	1.03	14852
1750	4.2302	35.060	5.59	4.084	27.8252	34.6782	41.3012	1.8452	0.832	1731
2000	3.7622	35.026	5.692	3.598	27.8482	34.7202	41.3622	1.9562	0.702	1978
2500	3.1132	34.971	5.752	2.9112	27.8702	34.7702	41.4382	2.1702	0.53	2469
3000	2.7822	34.941	5.76	2.5352	27.880	34.7962	41.4792	2.3822	0.49	2959
3500	2.4732	34.914	5.822	2.1812	27.8882	34.819	41.5162	2.595	0.482	34492
4000	2.2572	34.892	5.822	1.9152	27.892	34.8332	41.5422	2.8072	0.37	39372
4500	2.1542	34.8762	5.82	1.7582	27.8912	34.8402	41.5552	3.0252	0.302	4424
5000	2.1502	34.8692	5.82	1.6922	27.8912	34.8422	41.5592	3.2522	0.202	4910
5255	2.1152	34.861	5.80	1.6262	27.8902	34.8442	41.5642	3.3712	0.272	5158

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	23.365	36.887	4.90	0.6	0.05	0.1	23.362	25.261	37.623	12
94	21.373	36.864	5.07	0.32	0.042	0.12	21.355	25.817	38.262	94
240	17.946	36.510	4.44	1.22	0.232	4.6	17.905	26.454	39.061	238
393	16.683	36.318	4.51	2.12	0.392	6.9	16.618	26.618	39.292	390
597	13.317	35.802	4.18	5.22	0.832	13.7	13.232	26.968	39.830	592
793	10.001	35.398	3.71	11.22	1.342	21.4	9.906	27.279	40.347	786
992	7.033	35.097	3.93	17.42	1.662	25.6	6.9352	27.5052	40.773	983
1189	5.792	35.096	4.75	16.12	1.472	22.5	5.6832	27.6692	41.0262	1178
1394	5.136	35.102	5.25	15.32	1.372	20.9	5.0132	27.7552	41.160	1380
1594	4.544	35.078	5.55	16.7	1.352	20.4	4.4092	27.8042	41.2552	15772
1800	4.128	35.054	5.58	18.92	1.342	20.22	3.9782	27.8322	41.3152	1781
2093	3.5242	35.037	5.64	23.12	1.362	20.12	3.3552	27.8812	41.4132	20692
2394	3.2312	34.986	5.76	27.3	1.39	20.42	3.0372	27.871	41.4292	23652
2697	2.9632	34.958	5.79	31.22	1.412	20.72	2.7442	27.8752	41.4572	2662
3002	2.7652	34.939	5.78	34.22	1.42	20.92	2.5192	27.8802	41.4802	2961
3297	2.5902	34.924	5.85	36.42	1.44	20.92	2.3172	27.8852	41.5022	3250
3596	2.4362	34.907	5.89	39.6	1.47	21.22	2.1352	27.8862	41.518	3543
3899	2.2852	34.893	5.84	43.32	1.50	21.52	1.9542	27.8902	41.5372	38382
4098	2.244	34.889	5.87	44.5	1.49	21.6	1.892	27.8912	41.5432	40322
4501	2.151	34.875	5.84	48.7	1.55	22.22	1.7552	27.8912	41.5542	4424
4708	2.136	34.871	5.80	50.0	1.55	22.12	1.7152	27.891	41.5582	4626
4901	2.147	34.881	5.85	48.6	1.552	22.22	1.702	27.9002	41.5672	4813
5099	2.1312	34.8652	5.79	52.1	1.592	22.62	1.6622	27.8902	41.5612	5006
5264	2.116	34.8622	5.812	53.22	1.602	22.72	1.6262	27.8902	41.5652	5166

OCEANUS 133 STA-258
DATE 10/ 5/83

LAT= 26 30.0N LON= 51 59.9W

SONIC DEPTH= 5570m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	22.912	36.941.	4.62	22.911	25.434	31.725	37.812.	0.008	-0.57.	3
25	22.926	36.944.	4.71	22.921	25.433	31.724	37.811.	0.064	0.40.	25
50	22.624	36.929	4.79	22.613	25.511	31.808	37.902	0.127	4.87.	50
75	21.900	36.886.	4.79	21.885	25.686	31.999	38.108.	0.187.	4.20.	74
100	21.564	36.904	4.86	21.544	25.795	32.115	38.230.	0.244	3.22	99
150	20.655	36.820	4.74	20.627	25.984	32.325	38.461.	0.352	4.11	149
200	19.032	36.638	4.22	18.996	26.276	32.657	38.829.	0.449	3.55.	199
300	17.586	36.458	4.33	17.535	26.505	32.923	39.131	0.619	1.97.	298
400	16.588	36.294	4.21	16.522	26.623	33.068	39.302	0.779	2.27.	397
500	15.097	36.050.	3.97	15.020	26.778	33.265	39.539	0.927	2.25	496
600	13.412	35.800	3.95	13.326	26.947	33.483	39.804.	1.063	2.49	595
800	9.501	35.295.	3.48	9.408	27.283	33.944	40.384.	1.288	2.38	793
1000	6.912	35.082.	3.83	6.813	27.510	34.261	40.787.	1.455	1.83.	991
1250	5.509	35.069	4.81	5.397	27.683	34.486	41.061	1.617	1.41	1238
1500	4.880	35.092	5.40	4.750	27.777	34.604	41.202	1.749	1.09	1485
1750	4.294	35.063.	5.57	4.146	27.821	34.671	41.292	1.868	0.81	1731
2000	3.811	35.031	5.67	3.646	27.847	34.717	41.357	1.980	0.73	1977
2500	3.167	34.975	5.74	2.964	27.868	34.766	41.433.	2.195	0.52	2469
3000	2.796	34.942	5.75	2.550	27.880	34.794	41.477	2.408	0.51	2959
3500	2.518	34.919	5.84	2.225.	27.888	34.817	41.512.	2.621	0.48	3449
4000	2.280	34.895	5.87	1.937	27.892	34.833	41.541.	2.835	0.41	3937
4500	2.149	34.877.	5.82	1.752	27.892	34.841	41.556	3.052	0.30	4424
5000	2.123	34.867	5.81	1.666	27.891	34.843	41.562	3.278	0.19	4910.
5500	2.159	34.862	5.83	1.637	27.889	34.843	41.563.	3.517	0.12	5395
5663	2.175	34.862	5.82	1.631	27.890	34.844	41.564.	3.598	0.18	5553

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	22.945	36.953.	4.90	0.5.	0.03	0.1	22.944	25.434	37.811.	5
96	21.714	36.870.	4.99	0.3.	0.03	0.1	21.695	25.727	38.157	96
247	18.234	36.528	4.52	0.8.	0.18	3.8	18.191	26.396	38.989	245
395	16.637	36.303	4.34	2.0	0.42	7.5	16.572	26.618	39.294.	392
591	13.581	35.822	4.20	4.9	0.82	13.8	13.496	26.929	39.776	586
793	9.669	35.320	3.58	12.6	1.45	23.2	9.576	27.274	40.364	786
992	6.858	35.056.	3.87	18.4	1.72	26.4	6.761	27.496	40.778	983
1189	5.681	35.063	4.69	16.7	1.51	23.1.	5.573	27.656	41.022	1179.
1394	5.115	35.089	5.24	15.1.	1.38	20.8.	4.992	27.747	41.154	1380
1693	4.403	35.070	5.60	17.1.	1.34	20.0.	4.259	27.814	41.277	1675.
1993	3.790	35.028	5.76.	21.5.	1.35	20.0	3.626	27.847	41.358	1971
2293	3.363	34.995	5.79.	25.5.	1.38	20.2	3.177	27.865	41.412	2266
2597	3.063	34.965	5.77.	29.5.	1.40	20.4.	2.852	27.871	41.444	2564.
2896	2.872	34.948	5.81	32.7.	1.41.	20.7	2.634	27.877	41.468	2858
3201	2.668	34.933.	5.84	35.1.	1.42.	20.8	2.404	27.885	41.494	3156
3498	2.511	34.916	5.87	36.4.	1.42	20.7.	2.219	27.887	41.512	3447
3800	2.351	34.902	5.96	38.7	1.43.	20.7	2.029	27.891	41.531	3741
4103	2.231	34.888.	5.86	43.6.	1.48	21.3.	1.878	27.892	41.545	4037
4403	2.165	34.878	5.86.	47.4.	1.50	21.7.	1.780	27.891	41.553	4329
4702	2.128	34.870.	5.87.	50.4.	1.55.	22.3.	1.708	27.890	41.558	4620
5003	2.122	34.865.	5.80	52.0.	1.57	22.4.	1.665	27.890	41.561	4913
5303	2.141	34.883.	5.77.	49.7.	1.55.	22.3.	1.645	27.906	41.578	5203.
5602	2.170	34.883.	5.78	51.7.	1.57.	22.6	1.634	27.906	41.580	5494
5676	2.177	34.862.	5.78.	53.4.	1.59.	22.8.	1.631	27.890	41.564	5565

OCEANUS 133 STA-259
DATE 10/ 5/83

LAT= 27 0.0N LON= 51 59.7W

SONIC DEPTH= 5555m

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	23.076	36.950	3.90	23.076	25.393	31.681	37.765.	0.003	-1.09.	1
25	23.086	36.943.	4.61	23.080	25.386	31.674	37.758.	0.065	-0.16.	25
50	22.844	36.894.	4.73	22.833	25.421	31.714	37.803.	0.130	5.02.	50
75	21.800	36.874	4.82	21.785	25.705	32.020	38.131	0.190	4.68.	74
100	21.358	36.832	4.81	21.339	25.797	32.123	38.243	0.247.	3.66.	99
150	19.855	36.689	4.34	19.827	26.098	32.459	38.613	0.353.	5.07	149.
200	18.514	36.586	4.11	18.479	26.368	32.762	38.947.	0.444	2.75.	199
300	17.451	36.443.	4.47	17.400	26.527	32.948	39.159.	0.610	1.82.	298
400	16.688	36.318	4.38	16.622	26.617	33.059	39.290	0.768	2.07	397.
500	15.183	36.062	4.17	15.105	26.768	33.253	39.524.	0.917.	2.40.	496.
600	13.224	35.765.	3.98	13.139	26.958	33.500	39.827.	1.052.	2.48.	595
800	9.837	35.335	3.52	9.742	27.258	33.908	40.337	1.276.	2.34.	793.
1000	6.942	35.072.	3.74	6.844	27.498	34.248	40.773.	1.447.	1.91.	991.
1250	5.564	35.079	4.79	5.451	27.684	34.485	41.058	1.608.	1.35	1238
1500	4.886	35.085	5.34	4.755	27.772	34.598	41.196.	1.742.	1.07	1485
1750	4.397	35.077	5.55	4.248	27.821	34.667	41.284	1.863	0.91.	1731
2000	3.827	35.034	5.68	3.662	27.848	34.717	41.356.	1.976.	0.70	1977
2500	3.169	34.975	5.74	2.966	27.868	34.766	41.432	2.191	0.52	2469
3000	2.840	34.945.	5.75	2.593	27.878	34.791	41.472	2.406	0.51	2959
3500	2.533	34.919	5.84	2.240	27.888	34.815	41.511	2.621	0.49	3448.
4000	2.294	34.897.	5.89	1.952	27.893	34.833	41.540	2.836	0.43	3937
4500	2.152	34.877.	5.82	1.755	27.892	34.841	41.556	3.054	0.29	4424.
5000	2.140	34.867.	5.82	1.683	27.890	34.842	41.559.	3.280.	0.17	4910
5500	2.152	34.861.	5.83	1.631	27.889	34.843	41.563	3.520	0.22	5395
5655	2.164	34.860.	5.82	1.621	27.889	34.844	41.564	3.596.	0.14	5545

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	23.076	36.952	5.12	0.3.	0.05.	0.0	23.076	25.394	37.766.	1
103	21.222	36.824.	4.96	0.1.	0.04.	0.0	21.202	25.829	38.281.	103
208	18.409	36.572.	4.39	0.7.	0.17.	3.8	18.372	26.385	38.968.	207
400	16.792	36.338.	4.62	1.6.	0.35.	6.0	16.726	26.608	39.276.	397
596	13.476	35.804	4.09	5.1.	0.87	14.1	13.391	26.937	39.790	591
799	9.816	35.333	3.59	12.1.	1.45	22.2	9.721	27.260	40.340	792
998	7.001	35.093	3.83	17.3.	1.71	25.2	6.902	27.506	40.777.	989
1201	5.748	35.076.	4.64	16.4.	1.54.	22.5	5.638	27.659	41.019	1190
1398	5.160	35.085	5.17	15.3	1.43.	20.6	5.037	27.739	41.143	1385
1692	4.504	35.081	5.51	16.8.	1.39.	20.0	4.360	27.812	41.267	1674
1998	3.841	35.034	5.67	20.8	1.36.	19.5	3.675	27.847	41.354	1976
2297	3.388.	34.996	5.74	24.9	1.41.	20.0	3.201	27.863	41.408	2270
2599	3.118	34.972.	5.78	28.3	1.42.	20.2	2.906	27.872	41.440	2566
2905	2.905	34.952	5.79	32.0	1.43.	20.3	2.666	27.877	41.465	2866
3206	2.715	34.936.	5.82	34.4	1.45.	20.5	2.449	27.883	41.489	3160
3504	2.547	34.919	5.93	35.9	1.44.	20.2.	2.252	27.886	41.508	3452.
3805	2.382	34.905	5.93	38.1	1.45.	20.5.	2.059	27.891	41.529	3746.
4078	2.256	34.891	5.87	42.1	1.50.	21.1.	1.906	27.892.	41.543	4012
4406	2.166	34.879	5.84	47.0	1.53.	21.6.	1.781	27.892	41.553	4331
4691	2.134	34.872	5.85	49.7	1.59	22.2.	1.715	27.891	41.558.	4609
5006	2.138	34.869.	5.79	51.3	1.59.	22.0	1.680	27.892	41.562	4915.
5308	2.149	34.864.	5.82	52.3	1.61.	22.4	1.653	27.890	41.562	5208.
5610	2.158	34.861.	5.78	53.9	1.64.	22.8	1.621	27.890	41.565	5501
5661	2.164	34.863.	5.78	53.7	1.63	22.9	1.621.	27.891	41.566	5551

OCEANUS 133 STA-260 LAT= 27 29.2N LON= 51 59.2W SONIC DEPTH= 4847m
DATE 10/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
13	22.3353	36.854	4.87	22.335	25.533	31.838	37.937	0.002	-0.34	1
25	22.3273	36.846	4.79	22.322	25.531	31.836	37.936	0.061	2.683	25
50	21.9163	36.896	4.82	21.906	25.688	32.000	38.108	0.121	4.433	50
75	21.5403	36.851	4.84	21.526	25.760	32.081	38.198	0.178	2.653	74
100	21.230	36.829	4.78	21.210	25.831	32.159	38.282	0.234	3.323	99
150	19.829	36.647	4.63	19.802	26.073	32.435	38.589	0.339	4.153	1493
200	18.5873	36.562	4.30	18.552	26.331	32.723	38.907	0.433	3.253	199
300	17.539	36.4523	4.48	17.4883	26.512	32.931	39.1403	0.601	2.00	298
400	16.914	36.369	4.63	16.847	26.603	33.0393	39.2643	0.7603	1.773	3973
500	15.468	36.1043	4.26	15.390	26.7373	33.2133	39.4773	0.913	2.49	4963
600	13.503	35.7973	4.03	13.417	26.9263	33.4603	39.7783	1.0513	2.39	5953
800	9.9643	35.349	3.53	9.868	27.2473	33.8933	40.3183	1.2823	2.423	7933
1000	7.1313	35.107	3.76	7.031	27.4993	34.2433	40.7613	1.4553	1.973	9913
1250	5.7493	35.116	4.743	5.634	27.6913	34.4853	41.0513	1.6173	1.45	1238
1500	5.1073	35.136	5.303	4.974	27.7863	34.6043	41.1933	1.7493	1.02	1485
1750	4.3993	35.087	5.563	4.250	27.8293	34.6753	41.2913	1.8683	0.91	1731
2000	3.8283	35.036	5.683	3.662	27.8503	34.7193	41.3583	1.980	0.68	1977
2500	3.1793	34.9763	5.743	2.9763	27.868	34.765	41.4313	2.1953	0.52	2469
3000	2.863	34.947	5.743	2.6163	27.877	34.790	41.4703	2.4103	0.503	2959
3500	2.576	34.9243	5.85	2.2823	27.888	34.814	41.5073	2.6273	0.523	3448
4000	2.287	34.8973	5.903	1.9453	27.894	34.834	41.5423	2.842	0.43	39363
4500	2.163	34.8783	5.823	1.7663	27.893	34.8413	41.5553	3.0603	0.313	4424
4923	2.136	34.8703	5.813	1.688	27.8923	34.8443	41.5613	3.250	0.21	4835

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
11	22.4023	36.855	4.77	0.53	0.06	0.03	22.400	25.516	37.9173	11
94	21.2693	36.824	5.03	0.33	0.05	0.03	21.251	25.816	38.265	93
242	18.0053	36.5043	4.55	0.93	0.20	4.03	17.963	26.4353	39.039	240
389	16.9293	36.3713	4.74	1.53	0.313	5.53	16.864	26.6013	39.261	386
592	13.6713	35.8223	4.13	5.03	0.843	13.7	13.585	26.9113	39.753	587
790	10.1113	35.3653	3.58	11.6	1.423	22.1	10.015	27.235	40.296	784
993	7.185	35.1093	3.77	17.1	1.723	25.6	7.085	27.493	40.751	984
1190	5.8923	35.0863	4.59	16.53	1.553	23.0	5.7823	27.649	40.999	1179
1390	5.3783	35.1333	5.10	15.2	1.423	20.7	5.2533	27.751	41.138	1376
15933	4.9283	35.1283	5.41	16.13	1.393	20.13	4.788	27.802	41.223	1576
1796	4.3213	35.0793	5.573	18.13	1.373	19.73	4.169	27.831	41.300	1776
20963	3.6743	35.0463	5.663	21.73	1.383	19.7	3.502	27.874	41.3943	2072
23993	3.2873	34.9843	5.743	26.33	1.433	20.23	3.0923	27.8643	41.418	2369
27003	3.0543	34.9953	5.703	28.73	1.423	20.33	2.833	27.897	41.4713	2665
29983	2.8573	34.9463	5.783	32.93	1.463	20.73	2.609	27.877	41.470	29573
3300	2.6773	34.9263	5.84	34.8	1.473	20.83	2.401	27.8793	41.489	32533
36063	2.494	34.9153	5.94	34.9	1.463	20.33	2.190	27.8883	41.515	3552
3805	2.399	34.907	5.90	36.43	1.463	20.6	2.076	27.891	41.5283	3746
40023	2.287	34.894	5.94	40.33	1.513	20.93	1.9443	27.891	41.539	3938
42003	2.224	34.8873	5.93	43.73	1.55	21.43	1.861	27.892	41.547	4131
44003	2.171	34.8793	5.86	47.03	1.573	21.93	1.786	27.8923	41.553	4325
46003	2.142	34.8743	5.85	49.13	1.603	22.33	1.734	27.892	41.557	4520
4804	2.126	34.8683	5.80	50.7	1.623	22.53	1.6943	27.890	41.559	4718
49313	2.137	34.8693	5.843	50.63	1.623	22.43	1.689	27.891	41.560	4842

OCEANUS 133 STA-261 LAT= 28 0.0N LON= 51 59.9W SONIC DEPTH= 4812m
DATE 10/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	22.326	36.817	4.34	22.326	25.508	31.813	37.913	0.007	3.943	3
25	22.086	36.810	4.86	22.081	25.572	31.882	37.9873	0.061	1.593	25
50	21.510	36.785	4.933	21.500	25.717	32.039	38.156	0.121	5.773	50
75	21.365	36.889	4.893	21.351	25.837	32.162	38.282	0.176	2.793	74
100	20.791	36.771	4.90	20.772	25.9073	32.246	38.378	0.230	3.193	99
150	19.522	36.601	4.803	19.4953	26.1183	32.487	38.649	0.3323	4.013	149
200	18.391	36.536	4.37	18.356	26.3613	32.758	38.946	0.4243	3.02	199
300	17.546	36.454	4.48	17.494	26.5123	32.931	39.140	0.590	1.75	298
400	16.924	36.366	4.56	16.857	26.5993	33.034	39.259	0.7503	1.83	397
500	15.397	36.097	4.26	15.319	26.748	33.226	39.491	0.9023	2.243	496
600	13.7973	35.846	4.13	13.709	26.9033	33.428	39.738	1.0423	2.503	595
800	10.020	35.367	3.67	9.9243	27.252	33.896	40.319	1.2733	2.48	793
1000	7.381	35.199	4.07	7.2793	27.537	34.270	40.779	1.4423	2.083	991
1250	5.810	35.160	4.95	5.695	27.718	34.509	41.073	1.5963	1.263	1238
1500	4.991	35.130	5.42	4.8593	27.795	34.617	41.211	1.7243	1.023	1485
1750	4.261	35.070	5.59	4.1143	27.830	34.681	41.3033	1.8413	0.833	1731
2000	3.802	35.031	5.68	3.6373	27.848	34.719	41.3593	1.9523	0.673	1977
2500	3.176	34.976	5.74	2.9733	27.869	34.766	41.4323	2.1683	0.533	2469
3000	2.840	34.946	5.75	2.593	27.879	34.792	41.4733	2.3833	0.51	2959
3500	2.542	34.922	5.87	2.248	27.889	34.8163	41.5113	2.598	0.503	3448
4000	2.264	34.895	5.89	1.9233	27.894	34.835	41.5433	2.8123	0.423	3936
4500	2.143	34.877	5.81	1.747	27.893	34.842	41.557	3.028	0.30	4423
4887	2.1173	34.869	5.78	1.6753	27.892	34.844	41.5633	3.2013	0.21	4800

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	22.389	36.815	5.11	0.4	0.05	0.1	22.388	25.489	37.891	4
100	21.0463	36.843	5.07	0.23	0.04	0.13	21.027	25.892	38.351	99
255	17.821	36.486	4.63	0.93	0.21	3.93	17.777	26.467	39.081	253
400	16.8663	36.360	4.76	1.53	0.323	5.33	16.800	26.608	39.271	397
597	13.534	35.8133	4.29	4.93	0.843	13.1	13.448	26.9323	39.782	592
795	10.177	35.394	3.86	10.6	1.353	20.6	10.080	27.2463	40.303	789
997	7.428	35.183	4.16	14.93	1.563	23.2	7.326	27.5173	40.757	988
1201	5.977	35.160	4.92	14.73	1.433	20.93	5.865	27.6973	41.0393	1190
1401	5.300	35.145	5.40	14.23	1.363	19.6	5.1743	27.7703	41.1623	1387
1600	4.628	35.097	5.65	15.33	1.343	19.33	4.4903	27.8113	41.2553	15833
1795	4.136	35.058	5.76	18.73	1.383	19.8	3.986	27.8343	41.3173	17753
2097	3.620	35.015	5.81	22.23	1.39	19.93	3.4493	27.8543	41.3803	2072
2403	3.252	34.981	5.84	26.13	1.43	20.23	3.0573	27.8653	41.4213	2373
2595	3.110	34.972	5.77	28.23	1.42	20.43	2.899	27.8723	41.4413	25613
2798	2.9753	34.957	5.80	30.33	1.443	20.7	2.7463	27.8743	41.4563	2760
3006	2.832	34.943	5.83	32.63	1.463	20.73	2.5853	27.877	41.472	2965
3306	2.644	34.928	6.13	33.43	1.46	20.63	2.3683	27.8843	41.496	32583
3601	2.476	34.913	6.02	34.83	1.463	20.73	2.1733	27.8883	41.517	3546
3909	2.300	34.898	5.99	38.7	1.483	20.93	1.9683	27.8933	41.538	38483
4207	2.214	34.885	5.95	43.33	1.543	21.63	1.8503	27.891	41.547	4137
4417	2.147	34.875	5.86	47.03	1.583	22.13	1.7613	27.8903	41.553	43433
4611	2.126	34.872	5.923	48.63	1.593	22.43	1.7173	27.8913	41.5583	45313
4808	2.118	34.867	5.853	50.33	1.623	22.6	1.6863	27.8903	41.5593	4723
4895	2.117	34.865	5.813	51.03	1.633	22.83	1.6743	27.8893	41.559	4807

OCEANUS 133 STA-262 LAT= 28 30.3N LON= 52 0.1W SONIC DEPTH= 5076m
DATE 10/ 5/83

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
3	22.399	36.760	4.82	22.398	25.444	31.748	37.847.	0.008.	5.79	3
25	21.967	36.790	4.89	21.962	25.591	31.904	38.011.	0.062.	4.77	25
50	21.456	36.807	4.90	21.447	25.748	32.072	38.190	0.120	4.14	50
75	20.720	36.743	4.86	20.706	25.903	32.244.	38.378	0.174.	4.68	74
100	20.076	36.662	4.87	20.057	26.016	32.372.	38.521	0.226	3.66	99
150	18.983.	36.577	4.48	18.956	26.240	32.622	38.796	0.322.	3.87	149
200	18.124.	36.516	4.35	18.089	26.412.	32.816	39.010	0.409	2.46	199
300	17.373.	36.433	4.50	17.322	26.538	32.961	39.174.	0.573	1.78	298
400	16.718.	36.333	4.59	16.652	26.622	33.063	39.293	0.730.	1.88	397
500	15.128	36.046	4.16	15.051	26.769	33.255	39.528	0.880.	2.43.	496
600	13.514	35.801	4.05	13.427	26.927	33.460	39.778.	1.016	2.48	595
800	9.976	35.367	3.65	9.880	27.260	33.905	40.329.	1.244	2.35	793
1000	7.155	35.152	4.04	7.055	27.531	34.273	40.790	1.414	2.03	991
1250	5.745	35.151	5.02	5.630	27.719	34.512	41.078.	1.570	1.35	1238
1500	4.885	35.117.	5.42	4.754	27.797	34.623	41.221.	1.697	1.00	1485
1750	4.248	35.063	5.71	4.101	27.826	34.678	41.300	1.813	0.81	1731
2000	3.734	35.024.	5.75	3.571	27.849	34.722	41.365.	1.925.	0.69	1977
2500	3.185	34.976.	5.76	2.981	27.868	34.765.	41.431.	2.139.	0.51	2469
3000	2.861	34.947.	5.77	2.613	27.878	34.790.	41.470.	2.355	0.49	2959.
3500	2.552.	34.922.	5.88	2.258	27.888	34.815.	41.510.	2.571	0.52	3448.
4000	2.271.	34.896.	5.91.	1.929.	27.894	34.835	41.543.	2.786.	0.45	3936
4500	2.132.	34.875.	5.83.	1.736	27.892.	34.842	41.558.	3.002	0.31	4423
5000	2.106.	34.866.	5.81.	1.650	27.891	34.844	41.564	3.226.	0.17	4909
5159	2.121.	34.864.	5.80.	1.645	27.890.	34.844	41.563.	3.300	0.10	5063

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
1	22.291	36.758	4.99	0.4	0.06	0.0	22.290	25.473	37.881.	1
100	19.817	36.647	5.09	0.2	0.04	0.0	19.799	26.073	38.590	100
246	17.723	36.478	4.64	1.1.	0.23	4.6	17.680	26.485	39.103	244
401	16.745.	36.341.	4.76	1.7.	0.34	6.0	16.678	26.622	39.292	398
600	13.409.	35.789.	4.37	5.2.	0.87	14.2.	13.323	26.939	39.797	596
804	9.826	35.364.	3.81	11.3	1.39	21.6.	9.730	27.283	40.362	797
1001	7.108.	35.150.	4.15	15.3.	1.59	23.6.	7.008	27.536	40.799	997
1201	5.903.	35.156.	4.97	13.9	1.40	20.7.	5.792	27.703	41.050	1190
1401	5.221.	35.130.	5.27	14.9	1.39	20.4.	5.097	27.767	41.166.	1387
1586	4.684.	35.102.	5.56	15.8.	1.36	19.8.	4.548	27.808	41.248	1569
1794.	4.173.	35.057.	5.78	16.7.	1.33.	19.3.	4.023	27.829.	41.310	1774
2099	3.630.	35.014.	5.78	21.7.	1.37.	19.8	3.459	27.853	41.377.	2075
2395	3.287.	34.985.	5.78	25.7.	1.42	20.2	3.092	27.865	41.418	2365
2700.	3.065.	34.966.	5.80	29.2	1.42	20.3.	2.843	27.872	41.446	2664
3001	2.869.	34.952.	5.82	31.7.	1.45.	20.7.	2.621	27.881	41.473	2959
3301	2.671.	34.931	6.04	32.9.	1.44.	20.5.	2.396	27.884	41.494	3253
3612.	2.491.	34.913.	6.03	34.8.	1.45.	20.5.	2.187	27.887	41.514	3557
3906.	2.329	34.900	5.94	38.2.	1.47.	20.8	1.996	27.892	41.535	3845
4208.	2.187.	34.884	5.92	44.4	1.53.	21.5.	1.824	27.893.	41.550	4139
4512	2.132	34.874.	5.91	48.2	1.58.	22.2.	1.735	27.892.	41.557	4434
4710	2.102.	34.867.	5.82.	50.5	1.60	22.4	1.682	27.890	41.560	4627
4911.	2.101.	34.872.		49.9	1.60.	22.5	1.656	27.896	41.568.	4823
5109.	2.116.	34.863.	5.83	52.2	1.63.	22.8.	1.646	27.889	41.562	5014
5168.	2.123.	34.863.	5.82	52.2	1.62.	22.7.	1.645	27.890	41.562	5072

OCEANUS 133 STA-263 LAT= 29 0.6N LON= 51 58.9W SONIC DEPTH= 5270m
DATE 11/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
3	22.194	36.7693	4.78	22.193	25.509	31.8173	37.920	0.007	1.01	3
25	22.078	36.7643	4.87	22.073	25.540	31.8503	37.9563	0.062	2.77	25
50	21.022	36.675	5.00	21.013	25.768	32.1023	38.230	0.121	5.61	50
75	20.492	36.670	4.95	20.478	25.910	32.2563	38.3963	0.175	3.96	74
100	20.072	36.6813	4.74	20.053	26.031	32.3873	38.536	0.227	3.81	99
150	18.861	36.570	4.42	18.834	26.265	32.6513	38.8273	0.3223	3.89	1493
200	18.020	36.506	4.37	17.985	26.431	32.8373	39.0343	0.4083	2.21	1993
300	17.299	36.422	4.53	17.248	26.547	32.9733	39.1883	0.5713	1.73	298
400	16.665	36.322	4.57	16.598	26.626	33.0683	39.3003	0.7273	1.843	3973
500	15.148	36.052	4.22	15.070	26.769	33.2543	39.5263	0.8773	2.173	496
600	13.535	35.800	4.13	13.448	26.922	33.4553	39.7723	1.0143	2.66	5953
800	9.550	35.319	3.66	9.456	27.293	33.9533	40.3913	1.2383	2.343	7933
1000	7.053	35.151	4.10	6.953	27.545	34.2913	40.8113	1.4043	2.00	9913
1250	5.588	35.1243	5.17	5.475	27.717	34.5163	41.0883	1.5563	1.323	1238
1500	4.905	35.114	5.44	4.775	27.792	34.6183	41.2153	1.6843	0.973	1485
1750	4.278	35.070	5.64	4.130	27.828	34.6793	41.3003	1.8013	0.823	1731
2000	3.7373	35.020	5.81	3.573	27.846	34.7193	41.3623	1.9123	0.673	1977
2500	3.180	34.974	5.75	2.976	27.867	34.7643	41.4303	2.1283	0.523	2468
3000	2.853	34.944	5.77	2.606	27.876	34.7893	41.4703	2.3443	0.503	2959
3500	2.563	34.921	5.91	2.269	27.887	34.8133	41.5073	2.5603	0.513	3448
4000	2.296	34.896	5.91	1.953	27.892	34.8323	41.5393	2.7763	0.443	3936
4500	2.1303	34.874	5.84	1.734	27.891	34.8413	41.5573	2.9943	0.333	4423
5000	2.105	34.864	5.813	1.6493	27.890	34.843	41.5623	3.2193	0.163	4909
5359	2.144	34.862	5.803	1.6413	27.889	34.843	41.5633	3.3893	0.103	5257

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	22.154	36.766	5.13	0.6	0.043	0.03	22.152	25.519	37.932	12
96	19.962	36.666	5.86	0.3	0.03	0.03	19.944	26.049	38.559	95
241	17.6473	36.466	4.63	1.23	0.233	4.73	17.605	26.494	39.116	240
394	16.6233	36.316	4.65	1.93	0.36	6.4	16.558	26.631	39.307	391
595	13.3983	35.794	4.24	5.23	0.843	13.8	13.313	26.945	39.803	590
789	10.043	35.373	3.83	11.1	1.373	21.43	9.9483	27.2533	40.318	783
994	7.264	35.171	4.11	15.43	1.58	23.83	7.1633	27.5313	40.782	985
1191	5.786	35.111	5.09	13.03	1.383	20.33	5.6773	27.6823	41.039	1180
1396	5.272	35.137	5.28	14.63	1.383	20.23	5.1473	27.7673	41.161	1382
15923	4.722	35.105	5.56	15.63	1.363	19.83	4.5843	27.8063	41.243	1576
17923	4.193	35.063	5.66	17.93	1.36	19.7	4.0423	27.8323	41.311	1772
20923	3.623	35.011	5.78	21.23	1.37	19.73	3.4523	27.8513	41.376	2067
23973	3.269	34.985	5.76	26.03	1.433	20.33	3.0753	27.8663	41.421	2368
2702	3.037	34.964	5.81	29.63	1.443	20.43	2.8163	27.8733	41.449	2666
2992	2.8393	34.9503	5.83	32.03	1.453	20.73	2.5923	27.882	41.476	2951
3297	2.6753	34.931	5.88	33.63	1.463	20.73	2.4003	27.8833	41.493	3250
36013	2.4893	34.9143	5.99	34.43	1.453	20.43	2.1863	27.8883	41.5153	3547
3899	2.3363	34.900	5.96	38.13	1.483	20.83	2.0043	27.8913	41.5343	3837
4201	2.213	34.887	5.93	42.53	1.523	21.23	1.8503	27.893	41.549	4132
44893	2.1303	34.8743	5.94	47.83	1.59	22.13	1.7363	27.891	41.557	4412
48023	2.101	34.867	5.833	51.23	1.633	22.53	1.6693	27.8913	41.5623	4717
5010	2.105	34.8863	5.853	49.43	1.61	22.33	1.648	27.9083	41.5803	4918
52033	2.123	34.864	5.81	52.23	1.653	22.9	1.6413	27.8913	41.5643	5106
53683	2.1453	34.8673	5.843	51.53	1.643	22.6	1.6413	27.8933	41.5663	5266

OCEANUS 133 STA-264 LAT= 29 30.0N LON= 52 11.3W SONIC DEPTH= 5803m
DATE 11/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	22.155	36.772	3.88	22.155	25.522	31.831	37.935.	0.002	-1.03.	1
25	22.126	36.767	4.83	22.121	25.528	31.838	37.942.	0.061	2.06	25
50	21.219	36.700	4.92	21.210	25.733	32.062	38.186	0.122	6.48.	50
75	20.611	36.715	4.88	20.597	25.912	32.255	38.392	0.176	4.27.	74
100	19.793.	36.657	4.67	19.774	26.087	32.450	38.605	0.227	4.63	99
150	18.597	36.566	4.33	18.571	26.330	32.721	38.904.	0.319.	3.27.	149
200	17.830	36.484.	4.43	17.796	26.461	32.872	39.074	0.403	2.31.	199
300	17.167	36.407.	4.58	17.116	26.567	32.996	39.214.	0.563	1.50	298
400	16.423	36.277	4.46	16.358	26.648	33.097	39.335	0.718.	2.12	397
500	14.748	35.989	4.17	14.672	26.808	33.305	39.588	0.864.	2.42.	496
600	12.930	35.718	4.02	12.846	26.981	33.531	39.866.	0.996	2.53	595
800	9.588	35.331.	3.66	9.494	27.297	33.955	40.391.	1.214.	2.40.	793
1000	6.971	35.163	4.15	6.872	27.565	34.314	40.837	1.375.	1.88.	991
1250	5.644	35.132	5.03	5.531	27.716	34.513	41.083.	1.526.	1.28	1238
1500	4.703	35.075	5.67	4.575	27.783	34.617	41.222	1.654.	0.94	1485
1750	4.250	35.057	5.76	4.103	27.821	34.673	41.295	1.771.	0.78	1731
2000	3.815	35.028	5.78	3.650	27.845	34.715	41.354	1.884.	0.69	1977
2500	3.224.	34.979	5.79	3.020	27.867	34.762	41.426	2.101	0.53	2468
3000	2.856	34.947	5.82	2.608	27.878	34.790	41.471	2.318	0.52	2959
3500	2.529	34.922	5.95	2.236	27.890	34.818	41.514	2.533	0.51	3448
4000	2.292	34.898	5.93	1.949.	27.894	34.835	41.541.	2.747	0.42	3936.
4500	2.147	34.878	5.84	1.751	27.894	34.842	41.557	2.964.	0.33	4423
5000	2.110	34.867	5.80	1.654	27.892	34.845	41.564	3.189	0.16	4909
5500	2.162	34.863	5.83	1.640	27.890	34.844	41.564.	3.427	0.09	5394.
5907	2.211	34.862	5.83	1.633	27.890	34.844	41.564.	3.632	0.08	5788

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	22.140	36.763	5.07	0.1	0.05	0.0	22.140	25.520	37.933.	1
102	19.760	36.637	4.77	0.0.	0.04.	0.0	19.741	26.081	38.600.	102
251	17.458	36.439.	4.66	0.4.	0.27	4.9	17.415	26.520	39.152	249
404	16.294	36.253.	4.61	1.3.	0.44	7.3	16.229	26.660	39.354	401
605	12.753	35.708.	4.16	5.1.	0.97.	15.3	12.669	27.009	39.905	600
798	9.530	35.327	3.84	11.1.	1.46.	22.3	9.437	27.303	40.401	791
1099	6.422	35.171	4.60	14.0.	1.51.	22.3	6.317	27.647	40.957	1089
1398	4.902	35.072	5.60	11.7.	1.32.	19.2	4.781	27.758	41.181	1384
1692	4.372	35.064	5.73	14.2.	1.33.	19.4.	4.229	27.813	41.278	1674
1995	3.842.	35.026	5.82	17.6.	1.36.	19.7.	3.677	27.840	41.348.	1972
2300	3.428	34.998.	5.82	22.3.	1.39.	20.1.	3.240	27.861	41.403	2272
2598	3.154	34.972	5.82	26.1	1.43.	20.6.	2.942	27.868	41.434	2564
2896	2.939	34.954	5.84	29.0	1.45.	21.0.	2.700	27.876	41.461	2856
3196	2.744	34.937	5.92.	30.3.	1.43.	20.7.	2.478	27.882	41.485	3150
3498	2.545	34.922	6.01	30.6	1.42.	20.5.	2.251	27.889	41.511	3446
3801	2.384	34.911	5.97	33.9.	1.45.	20.9	2.061	27.896	41.533	3741.
4102	2.260	34.893.	5.97	39.1.	1.49	21.6	1.907	27.893	41.544	4035
4403	2.170	34.880	6.00	45.0.	1.55.	22.5.	1.785	27.893	41.554	4328.
4704	2.117	34.870	5.87	49.0.	1.58.	23.1.	1.697	27.891	41.560	4621
5002	2.110	34.865	5.81	51.3.	1.63.	23.6.	1.653	27.891	41.563	4911
5305	2.139	34.863	5.85	51.9.	1.63.	23.7.	1.643	27.890	41.563	5205
5612	2.175	34.893	5.86	47.1.	1.59	23.3.	1.637	27.914	41.587	5502
5810	2.198	34.863		52.2.	1.63.	24.0.	1.633	27.890	41.564	5693.
5917	2.212	34.864	5.81	52.1.	1.64.	24.1.	1.633	27.891	41.565	5797

OCEANUS 133 STA-265
DATE 11/ 5/83

LAT= 30 0.3N LON= 52 21.7W

SONIC DEPTH= 5665m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	21.048	36.552	5.16	21.048	25.664	31.999	38.127.	0.002	1.38	1
25	20.725	36.529	5.00	20.721	25.736	32.078	38.214	0.058	6.09	25
50	18.944	36.498	5.19	18.935	26.185	32.568	38.743.	0.108	5.55	50
75	18.475	36.496.	5.03	18.462	26.303	32.698	38.884.	0.153	3.58	74
100	18.222	36.493.	4.73	18.204	26.366	32.767	38.959.	0.196	2.46	99
150	17.849	36.474.	4.62	17.823	26.446	32.857	39.058	0.279	2.02	149
200	17.552	36.453.	4.51	17.518	26.506	32.924	39.132	0.359.	1.77	199
300	17.100	36.402.	4.66	17.049	26.580	33.010	39.230	0.516.	1.48	298
400	16.260	36.246.	4.47	16.195	26.662	33.116	39.358.	0.670.	2.07	397
500	14.507	35.943.	4.38	14.432	26.825	33.328	39.618.	0.814.	2.28	496
600	13.123	35.735	4.18	13.038	26.955	33.500	39.830	0.946.	2.48	595
800	9.038	35.265	3.67	8.947	27.334	34.011	40.465	1.164.	2.56	793
1000	6.772	35.167	4.31	6.674	27.596	34.351	40.881	1.317	1.81	991
1250	5.490	35.140	5.23	5.378	27.741	34.544	41.119	1.461	1.25	1238
1500	4.733	35.095	5.56	4.604	27.796	34.628	41.232.	1.584.	0.88	1484
1750	4.187	35.052	5.77	4.041	27.824	34.678	41.303.	1.699.	0.76	1731
2000	3.794	35.026	5.79	3.630.	27.845	34.716	41.356	1.811.	0.66.	1977
2500	3.209	34.975.	5.84	3.005	27.865	34.761	41.426	2.029.	0.54.	2468
3000	2.833	34.946	5.89.	2.586	27.879	34.793	41.474	2.245	0.55	2959
3500	2.521.	34.922	6.02.	2.228	27.891	34.819	41.515.	2.458.	0.51	3448
4000	2.295	34.902	6.00.	1.953.	27.897	34.837	41.543	2.671.	0.39	3936
4500	2.151	34.879	5.86.	1.754.	27.894	34.842	41.557	2.888.	0.34.	4423
5000	2.102	34.866	5.80.	1.646	27.892	34.845	41.564	3.112.	0.16	4909
5500	2.146.	34.862	5.83.	1.625	27.890	34.845	41.565.	3.349.	0.10	5393
5745	2.173	34.861	5.85	1.618	27.890	34.845	41.565	3.471.	0.15	5631

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
13	21.021	36.547	5.15	0.2	0.05	0.0.	21.018	25.669	38.133	13
94	18.496	36.509.	5.02	0.3.	0.10	1.8	18.480	26.309	38.889.	94
240	17.379	36.433.	4.76	1.0.	0.26	5.0	17.338	26.534	39.170.	238
392	16.477	36.285	4.63	1.7.	0.39	6.7	16.412	26.641	39.326	389
594	13.460	35.785	4.37	4.8	0.83	13.2.	13.375	26.925	39.780	589
791	9.280	35.271	3.84	12.1	1.47	22.4.	9.189	27.300	40.415	784
991	6.904.	35.174.	4.33	14.6	1.53	22.7.	6.807	27.583	40.859	982
1189	5.675	35.135	5.16	13.0	1.37	20.2.	5.567	27.714	41.079	1177
1490	4.816	35.099	5.58	14.2	1.34.	19.6.	4.687	27.790	41.220	1475.
1793	4.126	35.046	5.80	16.0	1.34.	19.3.	3.976	27.825	41.310	1773
2095	3.644	35.010	5.85	19.5.	1.35.	19.4.	3.472	27.848	41.372	2071
2393	3.309	34.993	5.88	22.6.	1.38.	19.7.	3.114.	27.869	41.421	2363
2695	3.065	34.968	5.85	25.7.	1.42	20.1.	2.844	27.874	41.448	2660
3000	2.855	34.946	5.90	27.9.	1.41.	20.0.	2.608	27.877	41.470	2958
3300	2.634	34.926	6.06	28.3.	1.38	19.6.	2.360	27.883	41.496	3252
3598	2.469	34.917	6.06	29.3.	1.39	19.4.	2.167	27.892	41.521	3543.
3904	2.339.	34.903	6.10	32.7.	1.42	19.7	2.006.	27.894	41.536	3841
4204	2.231.	34.887	5.95	39.9	1.49	20.8	1.867	27.892	41.546	4134
4501	2.157.	34.878	5.87	44.9	1.53	21.5	1.760	27.893	41.556	4423
4803	2.105	34.867.	5.82	49.6	1.61	22.3	1.674	27.891.	41.561	4717
5105	2.109	34.859	5.78	51.7	1.63	22.5	1.640	27.887	41.560	5010
5403	2.136	34.868.	5.83	50.7	1.62	22.5	1.628	27.895	41.569	5299
5604	2.158	34.860	5.83	52.7	1.64	22.7	1.622	27.889	41.564	5494
5754	2.175	34.866.	5.79	52.5	1.64	22.7	1.618	27.894	41.569	5639.

OCEANUS 133 STA-266
DATE 11/ 5/83

LAT= 30 30.0N LON= 52 31.0W

SONIC DEPTH= 5460m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1	21.087	36.522	5.16	21.087	25.630	31.964	38.093	0.002	4.61	1
25	20.770	36.555	4.95	20.765	25.744	32.084	38.219	0.057	3.77	25
50	20.126	36.669	5.04	20.116	26.006	32.361	38.5083	0.111	5.32	50
75	19.447	36.574	5.06	19.434	26.113	32.484	38.6483	0.160	3.243	74
100	18.955	36.5283	4.933	18.938	26.207	32.590	38.7653	0.207	3.643	99
150	18.099	36.4973	4.38	18.073	26.402	32.807	39.001	0.295	3.143	149
200	17.653	36.463	4.44	17.619	26.489	32.904	39.1103	0.377	2.04	199
300	17.117	36.4023	4.59	17.066	26.576	33.006	39.225	0.534	1.543	298
400	16.069	36.213	4.47	16.005	26.681	33.140	39.387	0.688	2.23	397
500	14.486	35.9413	4.41	14.410	26.828	33.332	39.6233	0.8313	2.21	496
600	13.031	35.7213	4.21	12.946	26.963	33.511	39.8433	0.9633	2.493	595
800	9.0733	35.256	3.693	8.983	27.322	33.997	40.4503	1.1803	2.53	793
1000	6.779	35.180	4.443	6.681	27.605	34.360	40.889	1.3323	1.863	991
1250	5.308	35.1093	5.363	5.197	27.739	34.548	41.130	1.4743	1.16	1238
1500	4.933	35.1393	5.503	4.802	27.809	34.633	41.229	1.5963	0.90	14843
1750	4.239	35.071	5.713	4.092	27.833	34.685	41.3083	1.7113	0.78	17313
2000	3.719	35.0183	5.80	3.555	27.846	34.720	41.3633	1.8213	0.64	1977
2500	3.2143	34.9773	5.82	3.010	27.866	34.762	41.4263	2.037	0.54	2468
3000	2.8333	34.945	5.873	2.586	27.879	34.7923	41.474	2.252	0.51	29583
3500	2.500	34.9203	5.983	2.208	27.891	34.820	41.5173	2.4663	0.51	3448
4000	2.292	34.901	5.99	1.9493	27.897	34.837	41.5443	2.6783	0.40	3936
4500	2.1223	34.8773	5.863	1.726	27.894	34.844	41.560	2.893	0.32	4422
5000	2.096	34.8653	5.803	1.640	27.892	34.845	41.565	3.117	0.11	49083
5500	2.149	34.8633	5.793	1.628	27.891	34.845	41.5653	3.354	0.11	5393
5543	2.155	34.8633	5.803	1.627	27.891	34.845	41.565	3.3753	0.15	5435

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
9	21.179	36.559	5.19	0.53	0.05	0.0	21.177	25.634	38.092	9
103	19.013	36.551	5.09	0.4	0.04	0.1	18.995	26.210	38.765	102
250	17.331	36.4313	4.71	1.4	0.26	4.9	17.2883	26.545	39.183	248
397	15.937	36.1953	4.58	2.53	0.45	7.83	15.874	26.697	39.4113	394
596	13.149	35.7493	4.34	5.43	0.853	13.7	13.064	26.961	39.8343	591
796	8.846	35.248	3.80	12.7	1.47	22.5	8.757	27.352	40.4953	789
998	6.620	35.160	4.63	13.8	1.453	21.5	6.524	27.610	40.9063	988
1203	5.450	35.129	5.25	13.23	1.343	19.7	5.342	27.737	41.118	1191
1400	5.149	35.148	5.43	13.83	1.32	19.3	5.025	27.790	41.193	1386
1694	4.485	35.098	5.69	16.03	1.33	19.2	4.341	27.828	41.283	1675
1996	3.742	35.0203	5.84	19.43	1.343	19.2	3.578	27.845	41.361	1973
2301	3.386	34.9913	5.88	22.73	1.373	19.6	3.199	27.859	41.405	22723
26013	3.1273	34.970	5.96	26.0	1.403	20.0	2.915	27.869	41.437	25673
29023	2.869	34.9493	6.03	28.7	1.413	19.9	2.632	27.878	41.469	2863
32003	2.681	34.9343	6.01	29.8	1.40	19.9	2.416	27.8843	41.493	3154
35053	2.490	34.9193	6.03	30.63	1.383	19.5	2.197	27.891	41.517	34523
38043	2.340	34.904	6.10	33.23	1.403	19.7	2.018	27.893	41.535	37453
41063	2.2603	34.8953	6.06	36.43	1.43	20.1	1.907	27.895	41.5463	4039
44043	2.1453	34.8793	5.96	44.33	1.513	21.1	1.7603	27.8943	41.5573	4329
47043	2.086	34.866	5.87	50.23	1.59	22.33	1.667	27.890	41.561	4621
5003	2.096	34.863	5.86	52.1	1.613	22.43	1.640	27.890	41.563	49113
53083	2.126	34.861	5.81	52.63	1.673	22.6	1.630	27.889	41.563	5207
55103	2.151	34.862	5.80	52.63	1.623	22.63	1.628	27.890	41.564	5403
55493	2.156	34.862		52.53	1.623	22.53	1.628	27.890	41.564	5440

OCEANUS 133 STA-267 LAT= 31 1.7N LON= 52 41.0W SONIC DEPTH= 5625m
DATE 11/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	21.347	36.586	4.79	21.346	25.608	31.936	38.058	0.007	5.59	3
25	20.877	36.583	4.88	20.872	25.736	32.074	38.206	0.058	5.41	25
50	19.957	36.640.	5.00	19.948	26.029	32.387	38.539	0.110.	4.03	50
75	19.371	36.561	5.06	19.358	26.123.	32.496	38.661	0.159.	3.23.	74
100	18.718	36.494	4.99	18.700	26.242	32.631	38.811	0.206	3.21.	99
150	18.286	36.501	4.53	18.260	26.359.	32.758	38.949	0.294.	2.97	149
200	17.727	36.472	4.40	17.692	26.477	32.891	39.095	0.376.	1.94	199
300	17.184	36.409	4.58	17.133	26.565	32.993	39.211	0.535.	1.53	298
400	16.483	36.288.	4.53	16.417	26.642.	33.090	39.326	0.691.	1.98	397
500	14.778	35.985	4.41	14.702	26.798	33.294.	39.577	0.838.	2.30	496
600	13.342	35.765	4.26	13.256	26.934	33.473	39.796.	0.973	2.40	595
800	9.380	35.294	3.70.	9.288	27.302	33.967	40.410	1.197.	2.66.	793
1000	6.878	35.196	4.46	6.779	27.604	34.355	40.811	1.352.	1.85.	991
1250	5.497	35.144.	5.25	5.385	27.744	34.546	41.121.	1.495.	1.19.	1238
1500	4.598	35.064	5.76	4.471	27.787	34.624	41.233	1.618.	0.81.	1484
1750	4.215	35.051	5.84	4.068	27.820	34.673	41.297.	1.735.	0.72.	1731
2000	3.750	35.007	5.93	3.586	27.834	34.707	41.349	1.848.	0.67.	1977
2500	3.284	34.982.	5.80	3.079	27.864	34.757.	41.419	2.069.	0.53.	2468
3000	2.888.	34.949	5.86	2.639	27.877	34.788.	41.467	2.289	0.57	2958
3500	2.554	34.923	5.97	2.260	27.889	34.816	41.510	2.505.	0.52	3447
4000	2.327	34.904	6.02	1.983	27.896	34.835	41.540.	2.720	0.40	3935.
4500	2.209	34.887.	5.96	1.811	27.896	34.843	41.555.	2.939.	0.36.	4422
5000	2.106	34.866.	5.82	1.650	27.892	34.845	41.564	3.164.	0.19	4908
5500	2.144	34.861.	5.84	1.622	27.890	34.844	41.565	3.402.	0.10	5393
5713	2.164.	34.861	5.81	1.614	27.890.	34.845.	41.566	3.507.	0.22	5599

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	21.266	36.575	5.16	0.9.	0.06	0.1	21.266	25.622	38.075	1
95	18.660	36.493	5.22	0.8.	0.05	0.1	18.644	26.255	38.828	94
241	17.469	36.440.	4.70	1.3.	0.29	4.9	17.428	26.518	39.149.	240
372	16.728	36.331	4.73	2.0.	0.37	6.1	16.666	26.617	39.288	369
597	13.063	35.725	4.21	5.6.	0.88.	14.3	12.979	26.960.	39.838.	592
789	9.549	35.305.	3.78.	11.5.	1.40.	21.7	9.457	27.282	40.380.	782
991	6.939	35.201	4.52	13.6.	1.43.	21.4	6.841	27.600	40.872	981
1205	5.583	35.130	5.32.	12.6.	1.31.	19.5	5.474	27.722.	41.093.	1193
1502	4.582	35.060	5.75.	12.6.	1.26	18.4.	4.455	27.785	41.233	1487
1796	4.117	35.038	5.89.	14.7.	1.27.	18.7.	3.967	27.820.	41.305	1776
2097	3.705	35.010	5.88	18.3.	1.30.	19.0.	3.533	27.842	41.361.	2072
2401	3.390	35.001	5.81.	22.9	1.35.	19.4	3.193	27.868	41.413.	2370
2699	3.166.	34.972	5.87.	26.2	1.39.	19.9.	2.943.	27.868	41.434.	2663
3002	2.885.	34.947.	5.95	28.7.	1.37.	19.7.	2.636.	27.876	41.466	2960
3300	2.683	34.932.	6.07.	30.0.	1.37.	19.7.	2.408	27.884	41.493	3251
3605	2.494	34.916	6.08	30.5.	1.36.	19.3.	2.190	27.889	41.516	3550
3904	2.360	34.905	6.11	32.1.	1.37	19.3.	2.027	27.894.	41.534	3841
4206	2.279	34.895.	6.01.	35.4.	1.40.	19.9	1.913	27.895	41.545.	4136
4507	2.203	34.885	6.09	40.1.	1.43.	20.5.	1.804.	27.895	41.554	4429
4807	2.117	34.867.	5.90	48.6.	1.56.	22.0.	1.684.	27.890.	41.559	4721
5110	2.108	34.862.	5.82	51.6	1.59	22.4	1.638	27.889	41.563	5015
5407	2.134	34.862.	5.84.	52.4.	1.64	22.4.	1.625.	27.890.	41.565	5302
5607	2.155.	34.892.	5.80.	47.1.	1.57.	21.9.	1.619	27.915.	41.589	5496
5723	2.166.	34.860.	5.79.	53.1.	1.62.	22.8.	1.614	27.889.	41.565	5609

OCEANUS 133 STA-268
DATE 11/ 5/83

LAT= 31 30.5N LON= 52 56.5W

SONIC DEPTH= 5432m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1	21.318	36.520	4.36	21.318	25.566	31.895	38.018	0.002	3.30	1
25	20.669	36.580	4.97	20.664	25.790	32.133	38.270	0.058	7.46	25
50	19.577	36.629	4.88	19.568	26.121	32.488	38.648	0.109	4.67	50
75	18.491	36.497	5.07	18.478	26.300	32.695	38.880	0.154.	4.29	74
100	18.271	36.488	4.88	18.254	26.350	32.750	38.940.	0.197	2.05	99
150	18.033	36.472.	4.96	18.007	26.400	32.806	39.002	0.281	1.57	149
200	17.866	36.468.	4.80	17.832	26.439	32.850	39.051	0.365	1.40	199
300	17.431	36.436.	4.54	17.380	26.526.	32.948	39.160.	0.528.	1.83	298
400	16.947	36.380.	4.72	16.880	26.604	33.039	39.263.	0.687	1.38	397
500	15.419	36.091.	4.38	15.340.	26.739	33.216	39.481.	0.841.	2.45	496
600	13.870	35.845.	4.42.	13.782	26.887	33.410	39.718.	0.981.	2.48.	595
800	9.885.	35.335.	3.69.	9.790	27.250.	33.898	40.326.	1.216.	2.60	793
1000	6.928.	35.171.	4.39.	6.829	27.577	34.327	40.852	1.381.	2.00.	991
1250	5.517.	35.140.	5.26	5.405	27.738	34.539	41.114	1.526	1.20	1238
1500	4.696.	35.077	5.70.	4.567	27.786	34.620	41.225	1.651	0.87	1484
1750	4.176.	35.035	5.89.	4.030	27.811	34.666	41.291	1.769	0.74	1731
2000	3.846.	35.025.	5.84.	3.681	27.839	34.708	41.347	1.884.	0.65	1977
2500	3.306.	34.982.	5.84.	3.100.	27.862	34.754	41.415.	2.106.	0.56	2468.
3000	2.912.	34.949	5.85	2.663	27.875	34.785	41.464	2.326.	0.51	2958
3500	2.597.	34.925.	5.97.	2.302	27.887	34.813	41.505	2.545.	0.54	3447
4000	2.344.	34.905.	6.03	2.000	27.895	34.833	41.538	2.761	0.42	3935
4500	2.215.	34.887.	5.97.	1.816	27.895.	34.841	41.554	2.981.	0.36	4422
5000	2.116.	34.867.	5.83.	1.660	27.892	34.844	41.563	3.207	0.20	4908
5500	2.147.	34.862.	5.82.	1.625	27.890	34.845	41.565	3.445	0.15	5393
5527	2.148.	34.862.	5.80.	1.623	27.890	34.845	41.565	3.458	0.29	5419.

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
12	21.105	36.575	5.13	0.4	0.05.	0.1	21.102	25.667	38.127	12
93	18.286	36.483	5.11	0.4	0.05.	0.8	18.270	26.342	38.932.	92
243	17.759.	36.463	4.94	0.9	0.19	3.3	17.717	26.464	39.081	241
395	17.015	36.389	4.80	1.4.	0.30.	5.1	16.948	26.594	39.250	392
595	13.990	35.874.	4.52	4.2.	0.72	11.5	13.903.	26.884	39.708	590
794	10.343.	35.390	3.85	10.5	1.33	20.5	10.246	27.214	40.261	786
995	6.988.	35.175.	4.41	13.5	1.47	21.7	6.890	27.572	40.842	986
1192	5.922.	35.172.	5.07	13.2	1.36	19.9	5.812	27.713	41.059	1181
1397	4.855.	35.055.	5.68	12.2	1.30	18.8.	4.735	27.750	41.177	1383
1596	4.526.	35.066.	5.85	13.2.	1.30	18.7.	4.390	27.797	41.249	1579
1790	4.130.	35.035.	5.88	14.9.	1.31	18.7.	3.981	27.816.	41.300	1770
2094	3.728.	35.017.	5.86	18.9.	1.35	19.2.	3.555	27.845	41.362	2069
2348	3.439.	34.992.	5.86	22.0.	1.38	19.6	3.246	27.856	41.397	2319
2697	3.142.	34.967	5.85	26.4.	1.41.	20.0.	2.919	27.866	41.434	2661
2996	2.907.	34.951	5.92	28.6.	1.42.	20.2.	2.659	27.877	41.466	2954
3297	2.717.	34.934.	5.96	30.1.	1.42	20.0	2.441	27.882	41.489	3248.
3605	2.514.	34.916.	6.11	30.0.	1.40	19.6	2.209	27.887	41.513	3550
3902	2.367.	34.904.	6.08	32.2.	1.41.	19.7.	2.034	27.892	41.532	3839
4202	2.287.	34.897.	6.10	35.2.	1.43.	20.0.	1.921	27.896.	41.545.	4132
4510	2.216.	34.884.	6.01	40.3.	1.50	20.8.	1.817	27.893.	41.552.	4432
4802	2.127.	34.869.	5.85	48.8.	1.58.	22.0.	1.695	27.891	41.559	4716
5098	2.117.	34.864.	5.88	51.1.	1.64	22.6.	1.648	27.890.	41.563	5003
5402	2.139.	34.863.	5.85	52.4.	1.64.	22.8.	1.630	27.891	41.565	5297
5536	2.149	34.861	5.82	52.8.	1.65.	22.8.	1.622	27.890	41.564	5427

OCEANUS 133 STA-269
DATE 12/ 5/83

LAT= 32 0.0N. LON= 53 7.2W

SONIC DEPTH= 5390m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	21.125	36.561.	4.03	21.125	25.650	31.982.	38.109.	0.002.	1.24	1
25	20.578	36.551.	5.00.	20.574	25.792	32.138.	38.276.	0.057.	7.23	25
50	18.957.	36.519.	5.24.	18.948.	26.197	32.580.	38.755.	0.107.	4.40	50
75	18.674.	36.510.	5.15.	18.661.	26.264	32.653.	38.835.	0.152.	2.56	74
100	18.373.	36.483.	4.98.	18.355.	26.321	32.718.	38.907.	0.196.	2.43.	99
150	18.138	36.483.	5.09.	18.112	26.382	32.785.	38.979.	0.281.	1.26	149.
200	18.106	36.481.	5.06.	18.071.	26.390.	32.794.	38.989.	0.366.	1.40.	199.
300	17.771	36.465.	4.84.	17.719.	26.465.	32.878.	39.082.	0.534.	1.62.	298
400	17.148	36.401.	4.62.	17.080.	26.572.	33.002.	39.221.	0.698.	1.69.	397.
500	16.261	36.239	4.43.	16.179.	26.661.	33.115.	39.358.	0.856.	2.28.	496.
600	14.575	35.950	4.40.	14.484.	26.819.	33.321.	39.610.	1.004.	2.37.	595.
800	10.792	35.421	3.73.	10.691.	27.160.	33.779.	40.178.	1.257.	2.59.	793
1000	7.047	35.137	4.29.	6.947.	27.534.	34.280.	40.801.	1.437.	2.30.	991
1250	5.308	35.086	5.35.	5.198.	27.721.	34.531.	41.113.	1.587.	1.29	1238.
1500	4.698	35.069	5.72.	4.570.	27.779.	34.613.	41.218.	1.714.	0.84.	1484.
1750	4.395	35.071	5.73.	4.246.	27.816.	34.662.	41.279	1.833.	0.80.	1731
2000	3.895.	35.030	5.81.	3.729.	27.838.	34.705.	41.341.	1.948.	0.69.	1977
2500	3.324.	34.983	5.83.	3.118.	27.861.	34.752.	41.413.	2.171.	0.54.	2468.
3000	2.947.	34.952	5.84.	2.697.	27.874.	34.783.	41.460.	2.393.	0.55.	2958.
3500	2.601.	34.926	5.96.	2.306.	27.887.	34.812.	41.505.	2.613.	0.52.	3447.
4000	2.342.	34.905.	6.00.	1.998.	27.896.	34.834.	41.539.	2.830.	0.43.	3935.
4500	2.213.	34.887.	5.95.	1.814.	27.896.	34.842.	41.554.	3.049.	0.39.	4422
5000	2.115.	34.868.	5.82.	1.659.	27.892.	34.845.	41.564.	3.275.	0.19.	4908
5397	2.129.	34.862.	5.78.	1.621.	27.891.	34.845.	41.565.	3.462.	0.19.	5293

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	20.909.	36.485	5.17				20.909.	25.651	38.122	1
102	18.403.	36.210	4.59				18.385.	26.104	38.693	102
498	16.132.	35.186	3.85				16.052.	25.880	38.603.	494
898	8.607.	35.054	5.60				8.508	27.239.	40.403.	890
1297	5.009.	35.079	5.77	14.7.	1.30	19.0	4.897	27.750.	41.165.	1284
1697	4.503.	35.033	5.88	17.3.	1.31	19.1.	4.359	27.774.	41.230.	1678
1894	4.137.	35.048	5.84	16.5.	1.31	19.0.	3.977.	27.827.	41.311.	1872
1997.	3.953.	35.022	5.88.	18.2.	1.32	19.2.	3.786.	27.826.	41.325.	1974
2193.	3.649.	35.010	5.86.	20.1.	1.34.	19.3.	3.468.	27.848.	41.372.	2166
2494.	3.360.	34.985	5.87.	23.2.	1.35.	19.5.	3.154.	27.859.	41.408.	2461
2495.	3.343.	34.986	6.03.	23.2.	1.37.	19.7.	3.137.	27.861.	41.411.	2463
2796.	3.088.	34.964	5.93.	26.8.	1.38.	20.1.	2.856.	27.870.	41.443.	2758
2895.	3.018.	34.958	5.93.	27.7.	1.40.	20.1.	2.778.	27.872.	41.451.	2855
3096.	2.871.	34.946	5.96.	28.1.	1.37	19.9.	2.613.	27.877.	41.470.	3051
3297.	2.752.	34.936.	5.96.	28.7.	1.39.	19.9.	2.475.	27.881.	41.485.	3248
3398.	2.655.	34.930.	6.05.	29.0.	1.38	19.8	2.369.	27.885.	41.498.	3348
3699.	2.487.	34.916.		30.3.	1.38.	19.6.	2.173.	27.890.	41.519.	3641
4001.	2.348.	34.904.	6.05	32.9.	1.39	19.8.	2.004.	27.895	41.537.	3936
4300.	2.276.	34.897.	6.05	35.8.	1.40.	20.1.	1.899.	27.897.	41.549.	4227
4602.	2.178.	34.888.	6.00	43.0.	1.50.	21.3.	1.769.	27.900.	41.562.	4521
4901.	2.119.	34.868.	5.88	48.8.	1.56.	22.3.	1.675.	27.891.	41.562.	4811
5107.	2.120.	34.866.	5.86	50.2.	1.61.	22.5.	1.650.	27.892.	41.564.	5011
5300.	2.123.	34.865.	5.84	51.8.	1.60.	22.6.	1.628.	27.892.	41.567.	5199
5402.	2.130.	34.862.	5.87	52.7.	1.61.	22.8.	1.622.	27.890.	41.565.	5297

OCEANUS 133 STA-270
DATE 12/ 5/83

LAT= 32 30.1N LON= 53 18.4W

SONIC DEPTH= 5382m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1	20.743	36.500	4.39	20.743	25.708	32.050	38.186	0.002	2.27	1
25	20.544	36.525	5.01	20.540	25.782	32.128	38.268	0.056	4.29	25
50	19.067	36.525	5.22	19.058	26.174	32.554	38.726	0.108	6.18	50
75	18.536	36.508	5.09	18.522	26.298	32.691	38.875	0.152	3.15	74
100	18.340	36.522	5.04	18.322	26.358	32.756	38.945	0.195	1.63	99
150	18.270	36.516	5.05	18.244	26.374	32.774	38.964	0.280	0.88	149
200	18.132	36.497	4.99	18.097	26.396	32.799	38.994	0.365	1.79	199
300	17.484	36.445	4.54	17.433	26.520	32.941	39.151	0.531	2.01	298
400	17.016	36.393	4.72	16.949	26.597	33.030	39.253	0.690	1.48	397
500	15.868	36.171	4.37	15.788	26.698	33.164	39.417	0.845	2.21	496
600	14.310	35.913	4.43	14.220	26.847	33.357	39.653	0.989	2.24	595
800	10.691	35.410	3.73	10.591	27.169	33.791	40.194	1.239	2.62	793
1000	7.515	35.201	4.11	7.412	27.519	34.248	40.753	1.420	2.24	991
1250	5.327	35.082	5.32	5.216	27.715	34.524	41.106	1.573	1.29	1238
1500	4.781	35.079	5.65	4.652	27.778	34.609	41.211	1.701	0.92	1484
1750	4.281	35.053	5.79	4.134	27.814	34.665	41.286	1.820	0.77	1730
2000	3.875	35.024	5.86	3.709	27.836	34.703	41.341	1.935	0.65	1977
2500	3.422	34.988	5.86	3.214	27.856	34.743	41.400	2.161	0.53	2468
3000	3.038	34.959	5.83	2.786	27.872	34.778	41.451	2.388	0.55	2958
3500	2.671	34.930	6.01	2.374	27.885	34.807	41.497	2.613	0.57	3447
4000	2.390	34.909	6.05	2.045	27.896	34.832	41.535	2.833	0.47	3935
4500	2.246	34.891	5.98	1.847	27.897	34.841	41.553	3.054	0.37	4422
5000	2.131	34.869	5.84	1.674	27.892	34.844	41.563	3.281	0.24	4908
5481	2.145	34.862	5.84	1.626	27.890	34.845	41.565	3.510	0.17	5374

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
14	20.846	36.523	5.36	0.3	0.01	0.1	20.843	25.698	38.171	13
103	18.322	36.526	5.15	0.2	0.03	0.9	18.304	26.366	38.954	103
254	17.775	36.470	4.88	0.9	0.19	3.6	17.731	26.466	39.082	252
404	17.061	36.399	4.82	1.3	0.27	5.1	16.993	26.591	39.244	401
600	14.245	35.904	4.53	3.8	0.66	11.1	14.156	26.854	39.663	595
807	10.697	35.421	3.81	9.9	1.27	20.1	10.596	27.177	40.201	800
999	7.604	35.218	4.16	13.5	1.45	22.1	7.501	27.519	40.747	989
1200	5.512	35.079	5.21	12.6	1.32	19.7	5.405	27.690	41.067	1188
1398	5.075	35.097	5.51	12.8	1.29	19.1	4.953	27.758	41.168	1383
1602	4.588	35.069	5.71	13.4	1.27	18.8	4.451	27.793	41.240	1585
1804	4.136	35.034	5.93	14.5	1.26	18.6	3.985	27.815	41.299	1784
2100	3.745	34.991	5.89	18.5	1.29	18.9	3.571	27.823	41.340	2075
2401	3.494	34.978	5.89	21.3	1.33	19.3	3.295	27.840	41.378	2371
2704	3.281	34.958	5.95	24.3	1.35	19.5	3.056	27.847	41.404	2668
3004	3.043	34.966	5.89	27.6	1.37	19.9	2.790	27.877	41.455	2962
3303	2.817	34.940	6.05	26.4	1.35	19.3	2.538	27.879	41.478	3254
3643	2.592	34.922	6.16	27.9	1.34	19.2	2.282	27.886	41.506	3587
4000	2.392	34.907	6.08	31.5	1.36	19.4	2.047	27.893	41.532	3934
4207	2.324	34.901	6.04	34.7	1.38	19.8	1.956	27.896	41.542	4137
4509	2.241	34.887	6.03	39.7	1.46	20.6	1.840	27.894	41.550	4431
4808	2.158	34.873	5.89	46.3	1.52	21.5	1.724	27.892	41.558	4721
5145	2.130	34.866	5.88	50.9	1.60	22.3	1.655	27.891	41.563	5048
5411	2.139	34.862	5.86	52.7	1.60	22.6	1.629	27.890	41.564	5306
5489	2.146	34.863	5.86	52.3	1.60	22.5	1.626	27.891	41.565	5381

OCEANUS 133 STA-271 LAT= 33 0.1N. LON= 53 28.7W SONIC DEPTH= 5575m
DATE 12/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	20.657	36.461	5.00.	20.657	25.702	32.046	38.184	0.007	2.07.	3
25	20.370.	36.459	5.05.	20.365	25.779	32.129	38.273	0.057.	4.60.	25
50	18.780	36.473	5.31.	18.772.	26.207	32.595.	38.774	0.108.	6.30.	50
75	18.506	36.507	5.13.	18.492.	26.305	32.698	38.884	0.152.	2.70	74
100	18.308.	36.506	4.91	18.291.	26.354	32.753.	38.943	0.195.	2.38	99
150	18.030.	36.487	4.90	18.004.	26.412	32.818.	39.014	0.278.	1.41.	149
200	17.913	36.489	4.64	17.879.	26.444	32.853.	39.053	0.361.	1.50.	198
300	17.457.	36.439.	4.51.	17.406.	26.522	32.943.	39.154	0.525.	1.70.	298
400	16.898	36.362	4.60.	16.831.	26.601	33.038.	39.263	0.684.	1.81.	397
500	15.384	36.080	4.21	15.306.	26.738	33.216.	39.482	0.836.	2.19.	496
600	14.008	35.858	4.22.	13.919.	26.868	33.387	39.692.	0.978.	2.29.	595
800	10.099	35.344.	3.61.	10.002.	27.221	33.862.	40.283	1.221.	2.69.	793
1000	7.234	35.173	4.18.	7.133	27.537.	34.276.	40.790	1.392.	2.14.	991
1250	5.387	35.101	5.27.	5.275	27.723.	34.530.	41.109	1.543.	1.28.	1237
1500	4.446	35.021	5.82.	4.321	27.769.	34.613.	41.227	1.669.	0.80.	1484
1750	4.103	35.003.	5.98.	3.958.	27.793.	34.651.	41.279.	1.790.	0.70.	1730
2000	3.917	35.018.	5.90.	3.751.	27.827.	34.693.	41.329.	1.908.	0.68.	1976
2500	3.357	34.984.	5.83.	3.150.	27.858.	34.748.	41.407.	2.136.	0.58.	2468
3000	2.977	34.953	5.87.	2.727.	27.873.	34.780.	41.456.	2.360.	0.54.	2958
3500	2.612.	34.927	6.05.	2.316.	27.887.	34.812.	41.504.	2.581.	0.56.	3447
4000	2.360.	34.907.	6.05.	2.015.	27.896.	34.834.	41.538.	2.798.	0.41.	3935
4500	2.263	34.894	6.01.	1.863.	27.898.	34.842.	41.552.	3.018.	0.30.	4422
5000	2.203	34.879	5.94	1.744.	27.895.	34.844.	41.559.	3.247.	0.23.	4907
5500	2.212	34.871.	5.90.	1.688.	27.893.	34.844.	41.562.	3.488.	0.11.	5392
5665	2.198	34.866.	5.84.	1.653.	27.892.	34.845.	41.564.	3.570.	0.31.	5552

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	20.689	36.464.	5.34	0.7	0.04.	0.2	20.688	25.695	38.176.	4
102	18.152	36.491	5.06	1.0	0.11.	2.2	18.134	26.382	38.979.	101
245	17.698	36.472	4.78	1.5	0.23.	4.6	17.656	26.486	39.106	244
398	16.917	36.368	4.83	1.9.	0.30.	5.8	16.850	26.602	39.262.	394
593	14.019	35.860	4.30	5.2.	0.79.	13.2	13.932.	26.867	39.690.	588
791	10.610	35.409	3.87	10.5	1.29.	20.3	10.512	27.182	40.212.	784
993	7.333	35.177	4.52	14.2	1.47.	22.2	7.232	27.526	40.772.	984
1194	5.735.	35.129	5.27	13.3	1.34.	20.0	5.626	27.702	41.062.	1182
1493	4.414.	35.014.	5.90	12.4	1.25.	18.4	4.290.	27.767	41.228.	1477
1797	3.992.	34.996.	6.21	13.4.	1.25	18.3	3.844	27.799	41.295	1777
2093	3.798.	35.009.	6.14	16.9.	1.28	18.6	3.624.	27.832	41.344.	2068
2395	3.445.	34.991.	5.96.	20.6.	1.32.	19.1	3.248.	27.855	41.396.	2364
2696	3.203.	34.972.	5.99	24.4.	1.36.	19.6	2.980.	27.865	41.428.	2660
2998	2.962.	34.953.	6.01.	26.5.	1.36.	19.6	2.712.	27.874	41.458.	2956
3600	2.532.	34.920.	6.15.	28.1.	1.33.	19.0	2.228.	27.889	41.513.	3544
3904	2.392.	34.909.	6.36.	30.9.	1.35.	19.2.	2.057.	27.894.	41.532.	3841
4204	2.301.	34.899.	6.13.	34.3.	1.37.	19.7.	1.935	27.896	41.544.	4133
4507	2.259.	34.893.	6.09.	36.5.	1.39.	19.9	1.858.	27.897.	41.552.	4428
4807	2.216.	34.883.	6.05.	41.1.	1.45.	20.6.	1.780.	27.895.	41.557.	4720
5107	2.206.	34.876.	5.99.	44.8.	1.49.	21.1	1.733.	27.893.	41.559.	5011
5406	2.203.	34.870.	5.90.	47.8.	1.54.	21.7.	1.692	27.892.	41.560.	5301
5611	2.211.	34.869.	5.85.	49.2.	1.56.	22.0.	1.672.	27.892.	41.563	5499
5677	2.194.	34.865.	5.97	51.0.	1.58.	22.3.	1.648.	27.891.	41.564.	5563

OCEANUS 133 STA-272 LAT= 33 30.0N LON= 53 29.0W SONIC DEPTH= 5557m
DATE 12/ 5/83

PR	T	S	02	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	20.359.	36.424	5.20.	20.359	25.754	32.105	38.249	0.002	2.33	1
25	19.957	36.437.	5.11	19.952	25.873	32.233	38.386	0.055	4.60	25
50	18.433	36.436.	5.39	18.424	26.267	32.663.	38.851	0.104.	6.76	50
75	18.107	36.453	5.21	18.093	26.364	32.768	38.962	0.147.	2.18	74
100	17.997.	36.455.	5.06	17.980	26.393	32.800.	38.997	0.189.	1.89	99
150	17.866.	36.466.	4.89	17.841	26.436	32.846	39.046.	0.271	1.46	149
200	17.740.	36.455.	4.75	17.706	26.461	32.875	39.078	0.353.	1.15	198
300	17.317.	36.415.	4.51	17.266	26.538	32.963	39.177	0.516.	1.82	298
400	16.381.	36.249	4.21	16.316	26.636	33.087	39.326	0.673.	2.05	397
500	14.661	35.952.	3.93	14.585	26.798	33.297	39.583	0.821.	2.48	496
600	13.242.	35.753	4.24	13.157	26.945	33.487	39.813.	0.954.	2.45.	595
800	9.247.	35.263.	3.65	9.156	27.299	33.969	40.417	1.176	2.54.	793
1000	6.398	35.115.	4.64	6.304	27.605	34.374	40.917.	1.330.	1.93	991
1250	4.904	35.045	5.56	4.797	27.734	34.560	41.157.	1.470	1.08	1237
1500	4.386	35.017	5.89	4.262	27.772	34.618	41.235.	1.593.	0.76	1484
1750	4.046	34.998	6.00	3.902	27.795	34.655	41.286	1.712	0.67	1730
2000	3.807	34.993.	6.01	3.643	27.818	34.688	41.329	1.830	0.65	1976.
2500	3.338.	34.973.	5.98.	3.132	27.851	34.743	41.402.	2.059	0.61	2468
3000	2.906	34.946.	5.99.	2.657	27.874	34.784	41.463	2.283	0.60	2958
3500	2.556	34.924	6.07.	2.262.	27.889	34.816	41.511.	2.500	0.53	3447.
4000	2.353.	34.907.	6.07.	2.009	27.897.	34.834	41.539	2.715	0.38	3935
4500	2.268.	34.895.	6.03.	1.867	27.898	34.842	41.552.	2.935	0.28	4421
5000	2.207.	34.879.	5.96.	1.748.	27.895	34.844	41.559	3.166.	0.28	4907
5500	2.202.	34.869.	5.91.	1.679	27.892	34.844	41.562	3.406	0.19	5392.
5651	2.210.	34.868.	5.88.	1.666	27.892	34.844	41.563	3.482.	0.17	5538

PR	T	S	02	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	20.297.	36.435.	5.31	0.7	0.04.	0.1	20.297	25.779	38.277	1
102	17.957.	36.451.	5.26	0.8	0.11.	1.0	17.939	26.400	39.006.	101
251	17.562	36.440.	4.98	1.4.	0.21.	3.1	17.519	26.495	39.122.	249
400	16.365.	36.251	4.56	2.7	0.44	6.6	16.299	26.642	39.332	397
600	13.025	35.719.	4.31	6.2	0.89.	13.9	12.941.	26.963	39.843	595
806	9.124	35.266	3.87	12.9.	1.44	22.7	9.032	27.322	40.447.	798
1003	6.346	35.107	4.75	13.5.	1.40.	21.3	6.251	27.605	40.921	993
1200	5.205	35.074	5.45	12.8.	1.30.	19.5.	5.101	27.722	41.122	1188
1499	4.294	34.997.	5.96	12.2.	1.24.	18.6.	4.171	27.766	41.236	1483
1796	3.983	34.993.	6.11	13.5.	1.25.	18.7.	3.836	27.798	41.294	1776
2099	3.704	34.991.	6.07	15.9.	1.26	18.9.	3.531	27.827	41.347	2074
2407	3.412	34.974.	6.04.	18.4.	1.29.	19.2	3.213	27.844	41.389.	2376
2704	3.150	34.959.	6.08	21.7.	1.32.	19.7.	2.927	27.859	41.427	2668
3005	2.895	34.943.	6.09	24.3.	1.32	19.7.	2.646	27.872	41.462	2962
3291	2.695	34.929	6.13	25.4.	1.30.	19.6.	2.420	27.880	41.488	3242
3594	2.510	34.916.	6.13				2.207	27.888	41.513	3538
3903	2.375	34.905.	6.15	30.4.	1.34.	19.9	2.041	27.892	41.532	3840
4207	2.307	34.898.	6.11.	33.4.	1.37.	20.3	1.940	27.895	41.543	4136
4506	2.268.	34.893	6.07	35.9	1.38.	20.6	1.867	27.897	41.551.	4427
4809	2.244.	34.885.	6.12.	38.6.	1.42.	21.0	1.807	27.895	41.554	4722
5087	2.206.	34.876.	5.97.	44.3.	1.49.	21.8.	1.736	27.893	41.558	4991.
5399	2.202.	34.868.	5.94.	47.8.	1.54.	22.6.	1.692	27.890	41.559	5294
5608	2.206.	34.866.	5.87.	49.6	1.56	22.8	1.668	27.890	41.561	5496
5660	2.211.	34.867.	5.89.	49.4.	1.56	22.6.	1.666	27.891	41.562	5547.

OCEANUS 133 STA-273 LAT= 34 0.0N LON= 53 29.0W SONIC DEPTH= 5334m
DATE 12/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1.	20.191.	36.111	4.34	20.191	25.560	31.917	38.068.	0.002	6.32	
25	20.008	36.365	5.14	20.004	25.804	32.164	38.316	0.056	6.46	25
50	18.579	36.380	5.36	18.570	26.187	32.580	38.765	0.106	4.99	50
75	18.200	36.402	5.25	18.187	26.300	32.703	38.896	0.150	2.71	74
100	18.098	36.403	5.10	18.080	26.328	32.733	38.929.	0.194	1.15	99
150	18.108	36.438	5.07	18.082	26.355	32.759	38.954	0.280	2.02	149
200	17.005	36.347	4.54	16.972	26.556	32.989	39.212	0.362	3.16	198
300	15.335	36.079	4.40	15.288	26.741	33.220	39.486.	0.508	2.29	298
400	14.052	35.873	4.34	13.993	26.865	33.381	39.683.	0.643	2.02	397
500	12.938	35.706	4.23	12.868	26.968	33.518	39.852	0.770	2.13	496
600	11.030	35.444	3.76	10.955	27.130	33.741	40.132.	0.885	2.53	595
800	7.333	35.145	4.15	7.253	27.497	34.233	40.743.	1.065	2.38	793
1000	5.600	35.077	5.07	5.511	27.675	34.474	41.045	1.189	1.40	990
1250	4.991	35.084	5.53	4.883	27.756	34.578	41.171	1.318	0.93	1237
1500	4.303	35.019	5.89	4.179	27.782	34.632	41.252.	1.438	0.75	1484
1750	4.036	35.009	5.96	3.892	27.805	34.665	41.296.	1.555	0.64	1730
2000	3.722	34.991	5.99	3.559	27.824	34.698	41.342.	1.670	0.63	1976
2500	3.301	34.970	5.97	3.095	27.852	34.745	41.406	1.897	0.59	2467
3000	2.876	34.943	6.00	2.628.	27.874	34.785	41.465.	2.119	0.58	2958
3500	2.525	34.921	6.07	2.232.	27.889	34.818	41.513	2.335	0.53	3447
4000	2.325	34.903	6.06	1.982	27.896	34.835	41.540.	2.549	0.36	3934
4500	2.252	34.891.	6.02	1.852.	27.896	34.840	41.551	2.769	0.26	4421
5000	2.179	34.873	5.92	1.720	27.892	34.842	41.559.	2.998	0.30	4907
5411	2.165	34.863.	5.83	1.654.	27.889	34.842	41.561	3.195	0.19	5305

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
13	20.209	36.374	5.27	0.9.	0.03	0.2	20.207	25.756	38.260	13
104	18.113	36.406	5.20	0.8.	0.04	0.5	18.095	26.327	38.927	103
249	16.158	36.227	4.54	2.1.	0.40	7.6	16.118	26.665	39.366	247
405	14.008	35.876	4.46	4.7.	0.70	11.8	13.949.	26.876	39.697	401
599	10.777	35.418	3.79	10.4	1.29	20.2	10.702	27.156	40.173	593
806	7.188	35.145	4.33	13.8	1.46	22.0	7.108	27.518	40.774	798
998	5.697	35.099	5.13	13.1.	1.35	19.9	5.607	27.681	41.043	989
1192	5.015	35.063	5.58	12.7.	1.28	19.0	4.913	27.736	41.149	1180
1402	4.484	35.034	5.83	12.7.	1.27	18.6	4.367	27.774	41.229.	1388
1598	4.140	35.003	5.96	13.0.	1.26	18.4.	4.009	27.788	41.270	1580
1802	3.953	35.002.	5.97	14.4.	1.26	18.4.	3.805	27.808	41.306.	1781
2098	3.643	35.009	5.96	16.2.	1.27	18.5.	3.471	27.847	41.371	2073
2397	3.387	34.976	5.99	19.1.	1.30	18.9.	3.190	27.848	41.395.	2367
2699	3.116	34.959	6.05	21.8.	1.32	19.0.	2.894	27.862	41.432.	2662
2999	2.869	34.947	6.09	23.8.	1.32	19.0.	2.621	27.877	41.469.	2956
3302	2.656	34.927	6.11	25.5.	1.32	18.8.	2.381	27.882	41.493.	3252
3606	2.454	34.914	6.13	28.4.	1.33	19.1.	2.151	27.891	41.521	3550
3906	2.349.	34.903.	6.13	31.0	1.35	19.4.	2.016	27.893	41.534.	3842
4207	2.291	34.898.	6.10	33.3	1.37	19.6	1.924	27.896	41.545.	4136
4508	2.251	34.888	6.07	36.3.	1.41	20.2.	1.850	27.894	41.549	4429
4808	2.211	34.879	5.97	41.8.	1.46	20.8.	1.775	27.892	41.554	4720
5113	2.163	34.871	5.93	47.2.	1.54	21.8.	1.691	27.892	41.561	5016
5315	2.161	34.870	5.88	50.1.	1.57	22.2.	1.663	27.894	41.565	5212
5421	2.166	34.866	5.85	50.2.	1.57	22.2.	1.654	27.891.	41.563	5315

OCEANUS 133 STA-273 LAT= 34 0.0N. LON= 53 29.0W SONIC DEPTH= 5334m
DATE 12/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	20.191	36.111	4.34	20.191	25.560	31.917.	38.068.	0.002.	6.32	1
25	20.008	36.365	5.14	20.004	25.804	32.164.	38.316.	0.056.	6.46	25
50	18.579	36.380	5.36	18.570	26.187	32.580.	38.765.	0.106.	4.99	50
75	18.200	36.402	5.25	18.187	26.300	32.703.	38.896.	0.150.	2.71	74
100	18.098	36.403.	5.10	18.080	26.328.	32.733.	38.929	0.194.	1.15	99
150	18.108	36.438	5.07	18.082	26.355	32.759.	38.954.	0.280.	2.02	149
200	17.005	36.347	4.54	16.972	26.556	32.989.	39.212.	0.362.	3.16	198
300	15.335	36.079	4.40	15.288	26.741.	33.220	39.486.	0.508.	2.29	298
400	14.052	35.873	4.34.	13.993	26.865	33.381	39.683.	0.643.	2.02	397
500	12.938	35.706.	4.23	12.868	26.968	33.518	39.852.	0.770	2.13	496
600	11.030	35.444	3.76	10.955	27.130.	33.741.	40.132.	0.885.	2.53	595
800	7.333	35.145	4.15	7.253	27.497	34.233	40.743.	1.065.	2.38	793
1000	5.600	35.077.	5.07	5.511	27.675	34.474	41.045.	1.189.	1.40	990
1250	4.991	35.084.	5.53	4.883	27.756	34.578	41.171.	1.318.	0.93.	1237
1500	4.303	35.019.	5.89	4.179	27.782.	34.632	41.252.	1.438.	0.75	1484
1750	4.036	35.009.	5.96	3.892	27.805	34.665	41.296.	1.555.	0.64.	1730
2000	3.722	34.991.	5.99	3.559	27.824	34.698	41.342	1.670.	0.63.	1976
2500	3.301	34.970.	5.97.	3.095	27.852	34.745	41.406	1.897.	0.59	2467
3000	2.876	34.943.	6.00.	2.628.	27.874	34.785	41.465	2.119	0.58.	2958
3500	2.525	34.921.	6.07.	2.232	27.889.	34.818	41.513	2.335.	0.53.	3447
4000	2.325	34.903	6.06.	1.982	27.896.	34.835	41.540	2.549.	0.36.	3934
4500	2.252	34.891.	6.02.	1.852	27.896	34.840	41.551	2.769.	0.26.	4421
5000	2.179	34.873.	5.92.	1.720	27.892	34.842	41.559	2.998.	0.30.	4907
5411	2.165	34.863.	5.83.	1.654	27.889	34.842	41.561	3.195.	0.19.	5305

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
13	20.209	36.374	5.27	0.9.	0.03	0.2	20.207	25.756	38.260	13
104	18.113	36.406.	5.20	0.8	0.04	0.5.	18.095	26.327	38.927	103
249	16.158	36.227	4.54	2.1.	0.40.	7.6.	16.118	26.665	39.366	247
405	14.008	35.876	4.46.	4.7.	0.70	11.8	13.949	26.876	39.697	401
599	10.777.	35.418	3.79	10.4.	1.29	20.2	10.702	27.156	40.173	593
806	7.188	35.145	4.33.	13.8.	1.46	22.0	7.108	27.518.	40.774	798
998	5.697	35.099.	5.13.	13.1.	1.35	19.9	5.607	27.681.	41.043	989
1192	5.015	35.063	5.58.	12.7.	1.28	19.0.	4.913	27.736.	41.149	1180
1402	4.484	35.034	5.83.	12.7.	1.27	18.6.	4.367	27.774.	41.229	1388
1598	4.140	35.003	5.96.	13.0.	1.26	18.4	4.009	27.788.	41.270.	1580.
1802	3.953	35.002.	5.97.	14.4.	1.26	18.4.	3.805	27.808.	41.306.	1781
2098	3.643	35.009	5.96.	16.2.	1.27	18.5.	3.471.	27.847.	41.371.	2073
2397	3.387	34.976.	5.99.	19.1.	1.30	18.9.	3.190	27.848.	41.395.	2367
2699	3.116	34.959	6.05.	21.8.	1.32	19.0.	2.894.	27.862.	41.432	2662
2999	2.869	34.947	6.09.	23.8.	1.32	19.0.	2.621.	27.877.	41.469.	2956
3302	2.656	34.927.	6.11.	25.5.	1.32	18.8.	2.381.	27.882.	41.493.	3252
3606	2.454	34.914.	6.13.	28.4.	1.33	19.1.	2.151.	27.891.	41.521	3550.
3906	2.349	34.903	6.13	31.0.	1.35	19.4	2.016.	27.893.	41.534.	3842.
4207	2.291	34.898.	6.10.	33.3.	1.37	19.6.	1.924	27.896	41.545.	4136.
4508	2.251	34.888.	6.07.	36.3.	1.41	20.2	1.850	27.894	41.549	4429.
4808	2.211	34.879	5.97.	41.8.	1.46	20.8.	1.775	27.892	41.554.	4720.
5113	2.163	34.871	5.93.	47.2.	1.54	21.8.	1.691	27.892	41.561.	5016
5315	2.161	34.870	5.88.	50.1.	1.57	22.2.	1.663	27.894	41.565.	5212
5421	2.166	34.866	5.85.	50.2.	1.57	22.2.	1.654	27.891	41.563.	5315.

OCEANUS 133 STA-274
DATE 13/ 5/83

LAT= 34 30.0N LON= 53 30.1W

SONIC DEPTH= 5536m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N coh	DE m
1.	20.415.	33.128	5.18	20.415	23.227	29.607	35.779	0.005	22.90	1
25	19.420	36.380	5.49	19.415	25.970	32.343	38.509.	0.062	8.27	25
50	18.363	36.411	5.33	18.354	26.266	32.664	38.853	0.108	4.00	50
75	18.142	36.414	5.17	18.129	26.324	32.728	38.922	0.152	2.07	74
100	18.108	36.427	5.08	18.091	26.344	32.748	38.943.	0.195	1.52.	99
150	17.761	36.415	4.84	17.735	26.423	32.836	39.040	0.279	3.62.	149
200	16.980	36.372.	4.58.	16.947	26.582	33.015	39.238	0.357	2.02	198
300	15.601	36.123.	4.32	15.553	26.715	33.187	39.446	0.505	2.21	298
400	14.089	35.883	4.51	14.030	26.864	33.380	39.681	0.640	2.06.	397
500	12.608	35.658	4.04	12.540	26.995	33.556	39.900	0.766	2.41	496
600	10.592	35.389	3.65	10.518	27.165	33.790	40.195	0.879	2.54.	595
800	7.259	35.125	4.13	7.179	27.492	34.230	40.743	1.054	2.28	793
1000	5.559	35.075	5.14	5.471	27.678	34.478	41.051.	1.178	1.42	990
1250	4.604	35.019.	5.77	4.500	27.747	34.585	41.193	1.304	0.83	1237
1500	4.176	34.992.	5.98	4.053.	27.774	34.629	41.254.	1.424	0.69	1484
1750	4.003	34.997	5.99	3.860	27.799	34.661	41.293.	1.542	0.60	1730
2000	3.770	34.991	5.99	3.606	27.820	34.692	41.334	1.659	0.67.	1976
2500	3.308	34.971	5.96	3.102	27.853	34.745	41.406	1.887	0.60	2467
3000	2.904	34.946	5.99	2.655	27.873	34.784	41.462	2.109	0.60	2957
3500	2.500	34.920.	6.06	2.208	27.891	34.820	41.516	2.325	0.52	3446
4000	2.318	34.903	6.05	1.975.	27.896	34.835	41.541	2.539	0.39	3934
4500	2.230	34.890.	5.99	1.831	27.897	34.842	41.554	2.758	0.30	4421
5000	2.186	34.875	5.91	1.727	27.893	34.843	41.559	2.986	0.23	4907
5500	2.195	34.868	5.87	1.672	27.892	34.844.	41.562	3.227	0.19	5391
5617	2.196.	34.866	5.84	1.657	27.891	34.844	41.563.	3.285	0.26	5505

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
5	20.397	36.420.	5.36	0.9.	0.04	0.2	20.397	25.741	38.235	5
106	18.062	36.422	5.26	0.9.	0.05	0.9.	18.044	26.352	38.954	105
251	16.534	36.314	4.70	2.4.	0.38	6.7	16.493	26.645	39.324	249
405	14.138.	35.888	4.48	4.6.	0.70	11.6	14.079	26.858	39.672	401
603	10.793	35.448	3.88	10.2.	1.26	19.9	10.718	27.176	40.192.	598
903	7.074	35.117	4.31	14.3.	1.48	22.5	6.995.	27.512	40.776	796
992	5.577	35.065	5.15	13.3.	1.35	20.2	5.489.	27.668	41.040	983
1199	4.731	35.028	5.73	12.5.	1.26	18.9	4.631	27.740	41.175.	1187
1400	4.347	35.002	5.96	12.6.	1.25	18.5.	4.232	27.763	41.229	1385
1703	4.056	34.995	6.13	13.5.	1.25	18.5.	3.916.	27.791	41.281	1684
2004	3.809	34.992.	6.05	15.4.	1.26	18.5.	3.644	27.817	41.327	1980
2296	3.561	34.994.	5.94	19.5.	1.31.	19.0.	3.371.	27.845	41.377	2267
2604	3.218	34.963	6.07	20.5.	1.30	18.9.	3.004	27.855	41.417	2570
2908	2.961	34.947	6.08.	23.4.	1.32.	19.0.	2.721	27.868	41.452	2867
3200	2.741	34.933.	6.25.	25.3.	1.32	19.0.	2.475.	27.879	41.483	3152
3512	2.499	34.919	6.25.	28.0.	1.34.	19.1.	2.205	27.890	41.516	3458.
3812	2.379.	34.908		30.4.	1.35.	19.3.	2.055	27.894	41.532	3750
4107	2.290	34.898	6.14	34.0.	1.37.	19.7.	1.936	27.895	41.543	4038
4409	2.242.	34.890	6.00	37.7.	1.41	20.2	1.853	27.895	41.550	4332
4707	2.204	34.882	5.97	42.1	1.47.	21.0.	1.781	27.894	41.556	4622.
5010	2.187	34.872.	5.94	45.6.	1.52.	21.5.	1.727	27.891	41.556	4916
5310	2.190	34.870	5.87	47.9.	1.54.	21.9.	1.691	27.892	41.561	5207
5512	2.196	34.866	5.85	49.7.	1.57	22.2	1.671	27.890	41.561	5403
5625	2.197.	34.866	5.84	50.6.	1.58.	22.3	1.657	27.891	41.563	5512

OCEANUS 133 STA-275
DATE 13/ 5/83

LAT= 35 0.6N LON= 53 30.0W

SONIC DEPTH= 5510m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
1.	20.246	36.444.	5.19	20.246	25.799	32.153.	38.299	0.002	0.80	1
25	19.590	36.443	5.32	19.585	25.974.	32.343	38.504	0.054	7.79	25
50	18.194	36.446	5.37	18.185	26.335	32.737	38.930	0.100	4.46.	50
75	17.854	36.458	4.98.	17.841	26.430	32.840.	39.041	0.141	2.52.	74
100	17.765	36.460	4.93.	17.748	26.454	32.867	39.070	0.181	1.43.	99
150	17.611	36.447	4.84	17.585	26.484	32.901	39.108	0.261	1.40	149
200	17.408	36.424	4.91	17.374	26.518	32.940	39.152	0.340	1.16.	198
300	17.273	36.421	5.02	17.222	26.553	32.979	39.195	0.498	1.09	298
400	16.498	36.273	4.70.	16.432	26.628	33.075.	39.311	0.655	1.84.	397
500	15.183	36.046	4.48	15.105	26.756.	33.240	39.512	0.806	2.41	496
600	13.713	35.843	4.65	13.625	26.919	33.446	39.758	0.943	2.51.	595
800	9.329.	35.275	3.66	9.237	27.295	33.962	40.407	1.170	2.66.	793
1000	6.783	35.164	4.38	6.686	27.592	34.347	40.876	1.325	1.89.	990
1250	5.174	35.071	5.41	5.065	27.724	34.539	41.127.	1.469	1.14.	1237
1500	4.347	34.998	5.90	4.222	27.761	34.609	41.228	1.595	0.76	1484
1750	4.028	34.981	6.03	3.884	27.783	34.645	41.276	1.717.	0.63.	1730
2000	3.832.	34.982.	6.05	3.667.	27.807	34.676	41.316	1.837.	0.66.	1976
2500	3.397	34.973.	6.00	3.190	27.846	34.735	41.392.	2.071.	0.64.	2467
3000	2.918.	34.947	6.01	2.669	27.873	34.783	41.461	2.297	0.62	2957
3500	2.525	34.921	6.06	2.232	27.890.	34.818	41.513	2.514.	0.52	3446
4000	2.318	34.904.	6.05	1.975	27.897	34.836	41.542	2.727.	0.38.	3934
4500	2.236	34.889	5.99	1.837.	27.896	34.841.	41.553	2.947.	0.29.	4421
5000	2.183	34.875	5.90	1.725	27.893	34.843	41.559	3.175.	0.23.	4907
5500	2.201	34.868	5.89	1.677	27.891	34.843	41.561	3.416.	0.17.	5391
5611	2.205	34.868	5.86	1.666	27.892.	34.844	41.563	3.471.	0.23.	5499

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	20.209	36.454.	5.33	0.7	0.05	0.1	20.209.	25.817	38.319	1
98	17.815	36.460	5.15	1.1	0.13	2.5.	17.798	26.442	39.055	97
238	17.325	36.414	5.00	1.4.	0.22	3.8	17.285.	26.532	39.171	236
402	16.641	36.300	4.86	2.0.	0.31	5.4	16.574	26.615	39.291	399
604	13.985.	35.888	4.79	4.0.	0.63	10.4	13.896	26.896	39.720	599
797	9.695.	35.316	3.77.	12.0.	1.38	21.6	9.601	27.267.	40.355	790
1005	6.674	35.160.	4.54.	14.0	1.43	21.4	6.577	27.603	40.896	995
1199	5.351.	35.080	5.34.	12.7.	1.28	19.1.	5.245	27.710	41.099	1187
1398	4.539	35.012.	5.79.	12.1.	1.26	18.4.	4.422	27.751	41.202.	1383
1699	4.057	34.983	6.01.	12.5.	1.23	18.2.	3.918.	27.781	41.271	1680
2003	3.815.	34.982	5.99	14.0.	1.21	18.0	3.650	27.808	41.319.	1979
2300	3.564	34.981.	5.99.	16.4.	1.26	18.2.	3.373	27.835	41.367	2271
2601	3.289	34.968	6.04	19.4.	1.29	18.6.	3.074	27.853	41.408	2567
2896	3.021	34.953.	6.04	22.3	1.29	18.6	2.781	27.868	41.447	2856
3203	2.735	34.935.	6.05	25.0	1.27	18.6	2.468	27.881	41.485	3156
3494	2.547	34.923.	6.05	27.1	1.31	18.7	2.254	27.889.	41.511	3441
3798	2.388	34.909	6.08	30.3	1.35.	19.1.	2.066	27.894	41.531	3737
4110	2.295	34.900	6.01	33.6	1.35.	19.3.	1.940	27.896	41.544	4041
4406	2.256	34.895	5.97	36.2.	1.34	19.5.	1.868	27.898.	41.552	4320
4709	2.208	34.896.	5.92	41.9.	1.46.	20.5.	1.784	27.905.	41.566	4624
5008	2.182	34.876.	5.84	46.3.	1.50.	21.2.	1.722	27.894.	41.560	4914
5310	2.189	34.872	5.84	48.4	1.51	21.7.	1.691	27.893.	41.562	5207
5515	2.201	34.871.	5.82	49.3	1.55.	21.9	1.676	27.894	41.564	5405
5619	2.206	34.871	5.84	49.6	1.53	21.9.	1.666	27.894	41.565	5506

OCEANUS 133 STA-276
DATE 13/ 5/83

LAT= 35 30.6N LON= 53 29.6W

SONIC DEPTH= 5091m

PR	T	S	O2	A	SIG-0	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
1	20.057	36.417	4.54	20.057	25.829	32.187	38.338	0.002	3.57	1
25	18.884	36.444.	5.56	18.879	26.157	32.542	38.719	0.052	7.56	25
50	18.233	36.454.	5.26	18.224	26.332	32.732	38.924	0.095.	3.32	50
75	18.056	36.459	5.04	18.043.	26.380	32.786	38.981	0.137	1.87	74
100	17.995	36.464.	5.02	17.978.	26.401	32.808	39.005	0.179.	1.42	99
150	17.891	36.472.	4.98	17.865	26.435	32.844	39.044.	0.261	1.27	149
200	17.844.	36.476.	4.95	17.809	26.451.	32.862	39.063	0.343.	1.13	198
300	17.556.	36.442.	4.77	17.505	26.500	32.919	39.128.	0.507.	1.36	298
400	17.209.	36.404.	4.61	17.141.	26.559	32.987	39.205	0.670	1.53	397
500	16.457.	36.275	4.40	16.375	26.643	33.092	39.329.	0.829.	1.96	496
600	14.889	36.001.	4.40	14.796	26.790	33.283	39.563	0.980	2.34	595
800	11.238	35.468.	3.58	11.134	27.116	33.721	40.107	1.243	2.61	793
1000	7.594	35.144.	4.00	7.490	27.463.	34.190.	40.693	1.437.	2.45	990
1250	5.414	35.062.	5.21	5.302	27.689	34.495	41.074.	1.599.	1.36	1237
1500	4.575	35.017.	5.75	4.448	27.751	34.590	41.201.	1.732.	0.83	1484
1750	4.226	34.997.	5.95	4.079	27.776	34.629	41.253	1.859.	0.66	1730
2000	4.020	34.995.	6.00	3.852	27.798	34.660	41.293	1.982.	0.69.	1976
2500	3.513	34.976.	6.02	3.303	27.837	34.721	41.375	2.225	0.63.	2467
3000	3.043	34.953	6.02	2.792	27.867	34.772	41.445	2.460	0.63	2957
3500	2.641	34.929	6.08	2.345	27.887	34.810	41.501.	2.685.	0.60	3446
4000	2.410.	34.911	6.09.	2.065	27.896	34.831	41.533	2.905	0.46	3934
4500	2.290.	34.895	6.04	1.889.	27.897	34.840	41.549.	3.127	0.23	4421
5000	2.257.	34.885.	6.00	1.795	27.896	34.842	41.556	3.360	0.32	4906
5177	2.205.	34.875.	5.88.	1.723	27.893	34.843	41.559.	3.444	0.42	5078

PR	T	S	O2	SIL	PHOS	NO3	0	SIG-0	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
3	20.097.	36.459.	5.56	0.2.	0.04.	0.1	20.097	25.851	38.357	3
107	18.042.	36.489.	5.25	0.3	0.09	1.7	18.024	26.408	39.010	106.
245	17.875	36.491.	5.21	0.3.	0.12.	2.4.	17.832	26.457	39.068	243
410	17.141.	36.380.	5.00	0.9.	0.25	4.7	17.072	26.558	39.207	407
607	14.837.	36.003.	4.36	3.4	0.66	11.1	14.744	26.803	39.579	601
806	11.319.	35.493.	3.86	8.6	1.22	19.2	11.215	27.121	40.106	799
1006	7.634	35.149.	4.18	14.9.	1.49	22.6	7.530	27.461	40.688	996.
1204	5.629	35.073.	5.15.	12.6.	1.37.	20.1	5.520	27.671	41.040	1191
1399	4.800	35.031.	5.82.	11.9.	1.30.	19.1.	4.680	27.737	41.168	1384
1596	4.379	35.004.	6.04.	11.8.	1.27	18.6	4.246	27.763	41.228	1579
1799	4.117	34.991.	6.12.	12.3.	1.25.	18.3.	3.967	27.783	41.269	1778
2107	3.831.	34.984.	6.17.	13.5.	1.26.	18.3.	3.656	27.809	41.319	2081
2408	3.588.	34.978.	6.19.	15.5.	1.28.	18.5.	3.386	27.831	41.362	2377
2708	3.313.	34.968.	6.10.	18.1.	1.29.	18.6.	3.086	27.852	41.406	2671
3005	3.062.	34.954.	6.09.	20.4.	1.29.	18.7.	2.809	27.866	41.443	2962
3297	2.817.	34.937.	6.21	22.9.	1.32.	18.8.	2.538	27.876	41.475	3247.
3596	2.594.	34.923.	6.19	24.9.	1.32	18.9.	2.289	27.886	41.506	3540
3901	2.449.	34.913.	6.16.	27.9.	1.34.	19.0.	2.114	27.893	41.526	3837
4200	2.340.	34.904.	6.17.	30.7.	1.35.	19.2.	1.973	27.897	41.542	4129.
4501	2.294.	34.896.	6.10.	34.2.	1.41.	19.8.	1.893	27.897	41.549	4421
4702	2.290.	34.894.	6.07.	34.9.	1.41	19.8	1.864	27.898	41.552	4617.
4906	2.268.	34.887.	6.05.	38.1.	1.45.	20.4.	1.818	27.896	41.554	4815
5104	2.223.	34.879.	6.03.	43.1.	1.51.	21.2.	1.750	27.894	41.558	5007
5186	2.207.	34.874.	5.98.	45.3.	1.54	21.5.	1.724	27.892	41.559	5087.

OCEANUS 133 STA-277 LAT= 36 0.0N LON= 53 31.0W SONIC DEPTH= 5460m
DATE 13/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH.	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
1	20.073	36.360	5.33	20.073	25.781	32.140	38.291	0.002	1.65	1
25	19.583	36.429	5.32	19.579	25.965	32.334	38.495	0.055	8.42	25
50	18.431	36.444.	5.53	18.422	26.274	32.670	38.858	0.100	2.91.	50
75	18.278	36.472	5.14	18.265	26.335	32.735	38.926.	0.143.	2.52.	74
100	18.217	36.482	5.04	18.200	26.359	32.760	38.952.	0.186.	1.52.	99
150	18.002	36.475	5.07	17.976	26.409	32.816	39.013	0.270.	1.71.	149
200	17.891	36.480	4.89	17.856	26.443	32.853.	39.053	0.353.	0.95.	198
300	17.833	36.476	5.03	17.781	26.459	32.870	39.072	0.519.	0.67.	298
400	17.485	36.427	5.01	17.417	26.510	32.931	39.142.	0.687.	1.65.	397
500	16.936	36.346.	4.67	16.853	26.584	33.020	39.245	0.851.	1.87.	496
600	15.591	36.117.	4.43	15.496	26.723	33.197	39.457.	1.008.	2.29	595
800	11.955	35.547	3.70	11.848	27.044	33.626	39.991	1.287.	2.60	793
1000	8.419	35.176	3.79	8.309	27.365	34.064	40.540	1.501.	2.60.	990
1250	5.718	35.090.	5.06.	5.604	27.674	34.469	41.037	1.679.	1.58	1237
1500	4.738	35.037	5.69	4.609	27.750	34.583	41.187	1.815	0.90	1484
1750	4.281	35.004	5.94	4.134	27.776	34.627	41.249	1.942.	0.71	1730
2000	4.012	34.991	6.04	3.844	27.795	34.658	41.291.	2.067.	0.65.	1976
2500	3.577	34.981	6.04	3.366	27.836	34.717	41.368	2.312.	0.67.	2467
3000	3.113	34.957	6.05	2.860	27.864	34.766	41.437	2.548.	0.62.	2957
3500	2.661	34.929	6.13	2.365	27.885	34.808	41.498	2.774.	0.59.	3446
4000	2.373	34.908	6.10	2.028	27.896	34.833	41.537	2.994	0.44	3934
4500	2.276	34.895	6.07	1.875	27.898	34.841	41.551	3.215.	0.28	4420.
5000	2.247	34.884	6.03	1.786.	27.896	34.843	41.556	3.446.	0.24	4906
5500	2.239	34.874	5.96	1.714	27.893	34.843	41.560.	3.689.	0.21	5391
5535	2.240.	34.873	5.95	1.711	27.893	34.843	41.560.	3.706	0.24.	5425

PR	T.	S	O2.	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
2	20.132	36.358.	5.42	0.7.	0.04.	0.2	20.132	25.764	38.271.	2
98	18.205	36.479	5.16	1.1.	0.12.	2.3	18.188	26.360	38.954	98
247	17.840	36.422.	5.16.	1.1.	0.12.	2.5	17.798.	26.413	39.027	245
400	17.433	36.422	4.98.	1.7.	0.21.	4.2	17.365	26.519	39.154	396
597	15.759	36.146.	4.50.	3.2.	0.51.	8.7	15.663	26.708	39.433	592
798	12.302	35.596	3.81.	8.9	1.14	18.2	12.193	27.015	39.941.	791
998	8.340	35.165.	3.84.	14.8.	1.55	23.6	8.231	27.369	40.549	998
1196	6.033	35.096	4.97.	13.8	1.34.	20.6	5.921	27.639.	40.979	1184
1495	4.674	35.023	5.82	13.1	1.25	18.5	4.546	27.745.	41.187	1478
1799	4.178	34.994	6.01	12.9	1.24	18.8	4.027	27.779	41.260	1778
2103	3.935	34.992.	6.02	14.4.	1.26	18.4	3.758	27.805	41.307	2077
2402	3.648	35.016	6.04	16.2.	1.25	18.2.	3.446	27.855.	41.381	2371
2703	3.358	34.967.	6.09	18.7.	1.29	18.6	3.131	27.847.	41.398	2666
3004	3.126	34.958.	6.06	22.1.	1.31	18.9	2.872	27.863	41.435	2961
3302	2.859	34.940.	6.09	23.9.	1.30	18.7	2.579	27.875	41.471	3252
3602	2.605	34.924.	6.21	26.7.	1.31	18.8	2.298	27.886	41.505	3545.
3902	2.427	34.911.	6.16	30.6.	1.34	19.1.	2.092	27.893	41.528	3838
4206	2.330	34.901	6.08.	33.6.	1.35	19.5.	1.962	27.895	41.541	4134.
4506	2.286	34.897	6.06.	35.1.	1.37	19.5.	1.884	27.898.	41.551	4426
4798	2.262	34.889.	6.12.	38.7.	1.43	20.2.	1.826	27.897.	41.554	4710
5111	2.244	34.881.	5.97.	42.6.	1.47	20.7.	1.769	27.894.	41.557	5013
5293	2.239	34.877.	5.92.	44.7.	1.49	21.3.	1.741	27.893	41.558	5190
5513	2.241	34.873.	5.92	46.8.	1.53	21.6.	1.714	27.892.	41.559	5403
5569	2.245	34.873.	5.90.	47.0.	1.54	21.5.	1.711	27.893.	41.560	5457

OCEANUS 133 STA-278
DATE 13/ 5/83

LAT= 36 30.5N LON= 53 28.5W

SONIC DEPTH= 5450m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DF m
1.	19.832.	35.878	5.23	19.832	25.477	31.846	38.006.	0.002	9.01	1
25	19.684.	36.433.	5.24	19.679	25.941	32.308.	38.467	0.054	7.24	25
50	18.243	36.481.	5.58	18.234	26.350	32.750	38.941	0.099	3.39.	50
75	18.121	36.487	5.11	18.108	26.386	32.789	38.983	0.141	1.66.	74
100	18.063	36.488.	5.06	18.046	26.402	32.807	39.002.	0.182	1.41.	99
150	17.956	36.491	4.96	17.930	26.433	32.840.	39.039	0.265	1.23	149
200	17.907	36.489	4.96.	17.872	26.446	32.855	39.055	0.347.	0.81.	198
300	17.808	36.475	4.96	17.757	26.464	32.876	39.079	0.513	0.73	298
400	17.637	36.455	4.73	17.569	26.495	32.912	39.119.	0.681	1.49	397
500	17.060	36.381	4.49	16.976	26.581	33.014.	39.236	0.846	1.86.	496
600	15.238	36.018	4.24.	15.144	26.726	33.209	39.480	1.004	2.31	595
800	11.678.	35.494	3.40	11.572	27.055	33.546	40.019	1.280	2.73.	793
1000	7.660.	35.107	3.93	7.556	27.424	34.149	40.650	1.482	2.52.	990
1250	5.389.	35.058	5.23	5.278	27.688	34.496	41.075	1.646	1.41	1237
1500	4.555	35.014	5.80	4.429	27.752	34.592	41.202	1.779.	0.86	1484
1750	4.226	34.995.	5.98	4.080	27.774	34.627	41.251	1.905.	0.65	1730
2000	3.982	34.986	6.03	3.815	27.794	34.658	41.292	2.030	0.65	1976
2500	3.580	34.979.	6.05.	3.369	27.833	34.715	41.366	2.275	0.63	2467
3000	3.166.	34.959	6.04.	2.911	27.861.	34.761.	41.429	2.513	0.61	2957
3500	2.715.	34.932.	6.04.	2.417	27.883	34.803	41.491	2.744	0.61	3446
4000	2.439.	34.913.	6.03.	2.093	27.895	34.829	41.530	2.967	0.48	3934
4500	2.323.	34.899	6.03.	1.921	27.897	34.839.	41.547	3.191	0.29	4420
5000	2.301.	34.891.	6.02.	1.838	27.898	34.843	41.554.	3.424	0.25	4906.
5500	2.228.	34.873.	6.02.	1.704	27.893	34.844	41.561	3.668	0.33	5390
5537	2.224.	34.871.	6.02.	1.695	27.892.	34.844.	41.561	3.687	-0.22	5426

PR dbar	T. Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DF m
13	19.882	36.417	5.31	0.5.	0.04.	0.2	19.880	25.876	38.393	13
94	18.050	36.491.	5.11.	1.3.	0.12.	2.4	18.034	26.407	39.008	93
244	17.883	36.490.	5.07	1.3.	0.13.	2.6	17.841	26.454	39.065	242
392	17.680.	36.453.	5.11	1.5.	0.15.	3.0	17.613	26.482	39.104	389
596	15.783.	36.144.	4.26	3.9.	0.56	10.0	15.687	26.701	39.424	591
792	11.703.	35.487.	3.38	11.0	1.29	20.9	11.599	27.044	40.007	785
989	7.764.	35.106.	3.86	15.8.	1.57.	24.2.	7.660	27.408	40.627	980
1194	5.614.	35.047.	5.08	14.0	1.37	20.6	5.506	27.652	41.023	1187
1391	4.897	35.036	5.61	13.0	1.29	19.2	4.777	27.730	41.154	1376
1592	4.386	35.002	5.95	12.7	1.25	18.6	4.253	27.761	41.225	1574
1793.	4.210	34.996	5.98	13.0.	1.23	18.5	4.059	27.777	41.256	1772.
2086.	3.941.	34.992.	6.05				3.766	27.804	41.306	2060
2393	3.673.	34.981.	6.05	16.1	1.27	18.7.	3.471	27.825	41.349	2367
2688.	3.445.	34.974.	6.03	18.5	1.28	18.8.	3.217	27.844	41.388	2651
2994	3.192.	34.964	6.03	21.5	1.29	19.0.	2.938	27.862	41.429	2951.
3297	2.925.	34.944.	6.10	23.7	1.32	19.0.	2.644.	27.873.	41.463	3247
3605.	2.659	34.927	6.16	25.3	1.31	18.9.	2.351	27.884	41.498.	3548
3900.	2.495	34.916	6.14.	27.7.	1.32	19.0.	2.158	27.892	41.521	3836
4199.	2.378	34.914	6.11.	30.3.	1.32	19.2	2.010	27.902	41.544	4127
4497.	2.325	34.901	6.13.	32.6	1.37	19.5	1.924	27.899	41.548	4417
4803.	2.299.	34.894.	6.05.	35.2	1.39	19.8.	1.861	27.898.	41.552	4714
5107.	2.294.	34.891	6.05.	36.7	1.41	20.0.	1.818	27.899	41.557	5009
5406.	2.264.	34.880.	5.95.	41.6	1.47.	20.7	1.750.	27.895	41.559	5299
5547.	2.225.	34.872.	5.88.	47.4	1.55	21.7	1.694	27.893	41.562	5435.

OCEANUS 133 STA-279 LAT= 37 0.0N LON= 53 29.9W SONIC DEPTH= 5430m
DATE 14/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	19.771	36.421	5.47	19.771	25.909	32.273	38.430	0.002	-0.76.	1
25	19.498	36.439	5.55	19.493	25.994	32.365	38.529	0.052.	7.72.	25
50	18.182	36.484	5.81	18.174	26.367	32.769	38.962.	0.096.	3.14	50
75	18.020	36.484	5.36	18.007	26.408	32.814	39.011.	0.138.	1.86.	74
100	17.956	36.486	5.27	17.939.	26.427	32.834	39.032.	0.178.	1.31.	99
150	17.890	36.484	5.19	17.865.	26.444	32.854	39.053.	0.260.	0.91.	149
200	17.831.	36.477	5.18	17.797.	26.455	32.866.	39.068.	0.342.	0.76.	198
300	17.689.	36.450	5.21	17.637.	26.474	32.890.	39.095.	0.507.	0.79.	298
400	17.403.	36.424.	4.74	17.335.	26.528	32.951.	39.164.	0.673.	1.69.	397
500	16.792.	36.332.	4.69	16.709.	26.608	33.048.	39.276.	0.835.	1.81.	496
600	15.305.	36.058	4.21	15.211.	26.742	33.223.	39.492.	0.991.	2.24.	595
800	11.486.	35.471	3.49	11.381.	27.073	33.670.	40.049.	1.264	2.83	793
1000	7.305.	35.081	4.00	7.204	27.454	34.192.	40.705.	1.459	2.49.	990
1250	4.941.	35.010.	5.56	4.835	27.702	34.527.	41.123	1.617.	1.38	1237
1500	3.921.	34.908.	6.29.	3.802	27.734	34.599	41.235.	1.745	0.61.	1484
1750	4.152	34.983	6.00	4.007	27.772	34.629.	41.256.	1.871.	0.71.	1730
2000	3.887.	34.979.	6.08.	3.721.	27.798	34.666.	41.304	1.994.	0.65.	1976
2500	3.570.	34.975	6.07.	3.360.	27.831	34.713.	41.364	2.237.	0.54	2467
3000	3.270.	34.961.	6.09.	3.013.	27.853	34.749	41.413.	2.480.	0.59.	2957
3500	2.853.	34.938	6.16.	2.551	27.876	34.791	41.474.	2.719	0.67.	3446
4000	2.449	34.914.	6.18.	2.102	27.895	34.828.	41.529	2.945.	0.52	3933
4500	2.325.	34.900	6.15	1.923.	27.898	34.839.	41.547.	3.170.	0.32	4420
5000	2.299	34.891	6.11	1.836.	27.898	34.843.	41.554	3.403.	0.25.	4906
5447	2.297.	34.886	6.08.	1.777	27.898	34.846.	41.560.	3.621.	0.26.	5339

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
6	19.800	36.415	5.39	0.2	0.03	0.2	19.799	25.896	38.417	5
101	17.913.	36.485.	5.11	1.3.	0.12	2.5	17.896	26.437	39.045	100
247	17.774.	36.469.	5.16.	1.4.	0.14	2.8	17.731	26.465	39.081	245
394	17.450	36.429	4.66	2.0.	0.26	5.3.	17.383	26.520	39.154	391
596	15.591	36.121	4.33.	4.0.	0.61	10.4	15.497	26.726	39.460	590
792	11.495.	35.464.	3.52.	11.3.	1.35	21.0	11.391	27.065.	40.041	785
993	7.577	35.100	3.95	15.7.	1.60.	23.8	7.475	27.430.	40.662	983
1192	5.205	35.019.	5.31.	13.5.	1.37.	19.9	5.101	27.679.	41.080	1180
1393	4.606	35.003.	5.81.	12.8.	1.31.	18.9	4.489	27.736.	41.182	1378
1692	4.258	34.985.	5.97.	12.8.	1.28	18.5	4.116.	27.762.	41.237	1673
1995	3.920.	34.979.	6.06.	13.7.	1.27.	18.3	3.754.	27.795.	41.298.	1971
2296	3.691.	34.978	6.12.	15.5.	1.28	18.4	3.499.	27.820.	41.342	2266
2597	3.528.	34.976	6.07.	16.8.	1.31.	18.5	3.308.	27.837.	41.374.	2562
2895	3.346	34.965.	6.09.	18.4.	1.30.	18.4.	3.099	27.848.	41.402.	2854
3196	3.148.	34.954.	6.13.	20.0.	1.31.	18.4.	2.873.	27.860.	41.432	3148
3497	2.870	34.939	6.15.	21.5.	1.30.	18.3.	2.569.	27.875.	41.472.	3442
3799	2.590.	34.922	6.40.	24.3.	1.32.	18.4.	2.262	27.888.	41.509.	3737
4105	2.405.	34.909.	6.27	27.4.	1.33.	18.5.	2.047.	27.895.	41.534.	4035
4407	2.338.	34.904	6.19	30.5.	1.36.	18.9.	1.946.	27.899.	41.546.	4330
4704	2.307	34.895.	6.17.	33.3.	1.39	19.3.	1.881.	27.897.	41.550.	4618
5003	2.299.	34.890.	6.05.	35.3.	1.42.	19.5.	1.836.	27.897	41.553.	4908
5204	2.305.	34.892	6.06	34.1	1.41	19.3.	1.816.	27.900.	41.558.	5104
5410	2.295.	34.887.	6.06.	35.7.	1.42.	19.5.	1.779.	27.899.	41.560.	5302
5459	2.298.	34.887.	6.04.	35.9.	1.42.	19.5.	1.776.	27.899.	41.560	5350

OCEANUS 133 STA-280
DATE 14/ 5/83

LAT= 37 30.0N LON= 53 30.0W

SONIC DEPTH= 5402m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	DE m
1.	19.612	36.296.	4.90	19.612	25.854	32.224	38.386.	0.002	4.03	1
25	19.439	36.420.	5.25	19.434	25.996	32.368	38.533	0.052	6.52	25
50	18.335	36.478.	5.66	18.327	26.324	32.722	38.911.	0.097.	3.86	50
75	18.167	36.488.	5.21	18.154	26.375	32.777	38.970	0.139	1.55	74
100	18.147	36.489	5.13	18.129	26.382	32.785.	38.978	0.181.	0.84	99
150	18.123	36.492	5.03	18.097	26.392	32.796	38.990	0.265.	0.84.	149
200	18.070	36.490	5.08	18.036	26.406	32.811	39.007.	0.349.	1.23.	198
300	17.912	36.483.	5.04	17.860	26.444	32.854.	39.054	0.518	1.05.	298
400	17.618	36.455.	4.64	17.549	26.499	32.917	39.124.	0.686.	1.50.	397
500	17.076	36.378	4.56	16.991	26.575	33.008	39.229	0.852.	1.61.	496
600	16.017	36.184	4.26	15.920	26.678	33.139	39.389	1.012.	2.18	595
800	13.024	35.700	3.92	12.910	26.954	33.503	39.837	1.302.	2.48.	793
1000	8.090	35.102	3.59	7.982	27.357	34.067	40.555	1.526.	2.75.	990
1250	5.326	35.028	5.28	5.216	27.672	34.482	41.065	1.701	1.46	1237
1500	4.561	34.999.	5.79	4.435	27.739	34.579	41.189	1.836	0.88	1484.
1750	4.194	34.980	6.00.	4.048	27.766	34.621	41.246.	1.964.	0.66	1730
2000	3.984	34.976	6.07	3.817	27.786	34.650	41.284.	2.091.	0.63	1976
2500	3.628	34.976	6.07	3.416	27.827	34.706	41.355.	2.340.	0.63	2467
3000	3.233	34.959	6.10.	2.977	27.855	34.752	41.418	2.584	0.64	2957
3500	2.803	34.936.	6.17.	2.503	27.878	34.795	41.480	2.820	0.62	3445
4000	2.459	34.915	6.21	2.112	27.895	34.828	41.528	3.046.	0.53	3933
4500	2.331	34.901.	6.20.	1.929	27.898	34.839	41.547	3.271	0.30	4420.
5000	2.306	34.893	6.13	1.843.	27.898	34.843	41.554	3.504.	0.24	4905.
5499	2.289	34.883.	6.06	1.763	27.897	34.845.	41.560	3.749.	0.30	5389

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3. umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DE m
1.	19.621	36.373.	5.43	0.0.	0.03.	0.1	19.621	25.911	38.440	1
101	18.161	36.489	5.10	0.9	0.09	2.0	18.143	26.378	38.974.	100
253	17.980	36.480	5.08	1.1.	0.12	2.5	17.936	26.423	39.029	251
405	17.724	36.467	4.84	1.4.	0.17.	3.8	17.654	26.483	39.102.	401
607	16.210	36.240	4.38	2.9.	0.47.	8.4	16.111	26.677	39.377.	602
800	12.995	35.701.	3.95	7.1.	0.98.	16.0	12.882	26.961	39.845.	792
1000	8.352	35.142	3.62.	15.5.	1.62.	24.6	8.243	27.349	40.528.	990
1200	5.467	35.020	5.12	13.4.	1.37.	20.2.	5.360	27.649	41.030	1188.
1395	4.792	35.009	5.59	12.4.	1.30.	19.1.	4.673	27.720	41.153	1380.
1592	4.406	34.992	5.87	12.2.	1.27.	18.6.	4.273	27.751	41.214	1574.
1792	4.162	34.980	5.99	12.4	1.24	18.3.	4.012	27.769	41.252	1771
2095	3.922	34.978.	6.08	13.2	1.25.	18.2.	3.746	27.795	41.298	2068
2391	3.715.	34.977.	6.08	14.8.	1.26.	18.4.	3.513	27.818	41.339	2359.
2701	3.495.	34.975	6.07	16.9	1.27.	18.5.	3.265	27.840	41.381	2663
3001	3.237.	34.961	6.11	18.9.	1.26	18.3.	2.981	27.856	41.419	2957
3300	2.972	34.946.	6.10.	21.0.	1.29.	18.4.	2.690	27.870	41.457	3250
3598	2.745.	34.931	6.19	22.6.	1.28	18.2.	2.435	27.880	41.488	3541
3901	2.525.	34.917	6.20	25.3.	1.29	18.3.	2.187	27.890	41.517	3837
4205	2.384.	34.908	6.13.	27.9.	1.28.	18.5	2.015	27.897	41.538	4137.
4503	2.334.	34.901.	6.17	29.9.	1.33	18.6.	1.931	27.898	41.546.	4422
4806	2.310	34.895.	6.14	33.2.	1.35.	19.0.	1.871	27.898	41.551	4717
5102	2.304.	34.891	6.13.	35.1.	1.38.	19.4.	1.828	27.898	41.555	5004
5404	2.302.	34.888.	6.11.	35.7.	1.39	19.6.	1.787.	27.899	41.559	5296
5509	2.290.	34.887.	6.14.	36.8.	1.38	19.4.	1.762	27.900	41.563	5398

OCEANUS 133 STA-281 LAT= 38 0.0N. LON= 53 29.8W SONIC DEPTH= 5365m
DATE 14/ 5/93

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	19.443.	36.396	5.29	19.443	25.975.	32.348	38.513	0.006	-0.68.	3
25	19.447.	36.425	5.31	19.443	25.997.	32.369	38.534	0.050	3.88.	25
50	18.652.	36.468	5.51	18.643	26.236.	32.626	38.809	0.098.	5.11.	50
75	18.222	36.481	5.13	18.209	26.356.	32.757.	38.949	0.141	2.45	74
100	18.173	36.485	4.99	18.156.	26.372	32.774.	38.968.	0.183.	1.21	99
150	18.106	36.489	5.09	18.080.	26.394	32.798	38.993.	0.267.	1.18	149
200	18.030	36.491	5.05	17.996	26.417.	32.823	39.020.	0.351.	1.13	198
300	17.885	36.482	5.05	17.833.	26.451.	32.861	39.061.	0.519	0.90	298
400	17.778	36.470	5.00	17.709.	26.472.	32.885	39.089	0.689	1.05.	397
500	17.352	36.415.	4.60	17.267.	26.538.	32.962	39.177.	0.858.	1.58	496
600	16.624	36.285	4.51	16.525.	26.615.	33.060	39.294.	1.023.	2.37.	595
800	12.626	35.635	3.64	12.515.	26.983.	33.544	39.889.	1.318.	2.61.	792
1000	8.094	35.110	3.62	7.987	27.362.	34.073	40.560.	1.540	2.64.	990
1250	5.180.	35.016	5.37	5.070.	27.680	34.495	41.083.	1.716.	1.51.	1237
1500	4.457	34.981	5.98	4.332.	27.735	34.579	41.194.	1.850.	0.82.	1483
1750	4.189	34.977	6.08	4.043.	27.763	34.618	41.244.	1.979.	0.65.	1730
2000	4.001	34.974	6.13	3.833	27.783	34.646	41.279.	2.106	0.62.	1976
2500	3.669	34.975	6.13	3.457.	27.822.	34.700	41.347.	2.357.	0.62.	2467
3000	3.252	34.961	6.12	2.995.	27.854.	34.751	41.416.	2.603.	0.64.	2957
3500	2.813.	34.934	6.22	2.513	27.876	34.793	41.477.	2.840.	0.65.	3445
4000	2.436.	34.912	6.25	2.089.	27.894	34.829	41.530.	3.066.	0.51.	3933
4500	2.321	34.900	6.22	1.919.	27.898.	34.839	41.547.	3.290	0.29.	4420
5000	2.303.	34.892	6.17	1.840.	27.898	34.843	41.554	3.523.	0.25	4905
5463	2.266.	34.878	6.03	1.745.	27.894.	34.843	41.558.	3.749.	0.29.	5354

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C.	kg/m3	kg/m3	m
3	19.545	36.345	5.20.	0.0.	0.04.	0.1	19.544	25.910	38.443	3
98	18.159	36.488	5.13	0.1	0.11	2.1.	18.142	26.378.	38.974.	97
242	17.913	36.488.	5.15.	1.1	0.12.	2.5.	17.871	26.445.	39.054.	240
398	17.740	36.465	5.11	1.2.	0.15.	3.0.	17.671	26.477.	39.096.	395
594	16.768	36.320	4.63	2.5.	0.39	7.1	16.669	26.608.	39.279.	589
789	13.183	35.178	3.75	7.6	1.04.	16.8	13.071	26.517.	39.401.	781
993	8.448	35.154.	3.56	15.6	1.63.	24.9	8.339	27.343.	40.516.	983
1188	5.534	35.013	5.04.	13.8	1.40.	20.5	5.428	27.635.	41.012.	1175
1391	4.772	35.002	5.91	12.7	1.31	19.1	4.654	27.717.	41.151.	1376
1592	4.398	34.992.	5.96.	12.5.	1.27.	18.5	4.264	27.752.	41.215.	1574
1790	4.117.	34.978	6.06	12.4.	1.24.	18.1.	3.968	27.772	41.259.	1769
2093	3.916.	34.981.	6.08.	13.5.	1.25	18.2.	3.740	27.798	41.302.	2067
2394	3.709.	34.978	6.08	14.9.	1.26.	18.2.	3.507	27.819.	41.341.	2362
2691	3.476	34.970	6.11.	16.7.	1.26.	18.2.	3.247	27.838.	41.380.	2654
3004	3.226	34.961	6.06	19.6	1.27	18.4.	2.970.	27.857.	41.421.	2960
3300	2.987.	34.948	6.20.	21.5.	1.29.	18.5.	2.704.	27.871.	41.456.	3250
3593	2.732.	34.931	6.21	21.6.	1.27	18.1.	2.423	27.881.	41.490.	3536
3901	2.519	34.918	6.18.	24.9.	1.28.	18.3.	2.180.	27.891.	41.519	3836
4198	2.377.	34.911.	6.20.	26.9.	1.27	18.4.	2.009.	27.900	41.542.	4126
4495	2.326.	34.903.	6.19	30.0.	1.33	18.8.	1.924.	27.900.	41.549	4414
4792	2.307.	34.897	6.17.	32.0.	1.35.	19.1.	1.870.	27.900.	41.553.	4703
5102	2.300.	34.892.	6.09	34.1.	1.37	19.4.	1.824.	27.899.	41.557.	5004
5308	2.291.	34.893	6.10	35.6.	1.39.	19.6.	1.789	27.903.	41.563	5204
5473	2.267.	34.880	6.01.	42.6.	1.47.	20.8.	1.744.	27.896.	41.560	5363

OCEANUS 133 STA-282
DATE 14/ 5/83

LAT= 38 30.0N LON= 53 29.4W

SONIC DEPTH= 5339m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N coh	DF m
1	20.766	35.048	5.35	20.766	24.595	30.949	37.097.	0.003	14.47	1
25	19.864	36.354	5.22	19.860	25.834	32.197	38.353	0.062	7.45	25
50	18.876	36.437	5.55	18.867	26.155	32.541	38.718	0.113	6.81	50
75	18.197	36.467.	5.22	18.184	26.352	32.753	38.946.	0.157	2.80	74
100	18.120	36.487	5.11	18.103	26.387	32.790	38.985.	0.198.	1.51	99
150	18.027	36.491	5.14	18.001	26.415	32.821	39.018	0.282.	1.25	149
200	17.987	36.497	5.16	17.953	26.432	32.839	39.037	0.365.	0.76	198
300	17.899	36.493	5.12.	17.847	26.455	32.865	39.065	0.532.	1.16	298
400	17.451	36.436.	4.65	17.383	26.525	32.947	39.158	0.699.	1.68	397
500	16.829	36.342	4.70	16.745	26.606	33.045	39.273.	0.861	1.79	496
600	15.483	36.093	4.34	15.388	26.729	33.205	39.469	1.017.	2.39	595
800	11.231	35.435.	3.36	11.127	27.092	33.697	40.084	1.287.	2.75	792
1000	7.252	35.081	4.06	7.151	27.462	34.201	40.716	1.479	2.35	990
1250	5.111	35.019	5.45	5.003	27.690	34.508	41.098	1.640	1.33	1237
1500	4.479	34.994	5.92	4.353	27.744	34.587	41.201	1.772	0.79	1483
1750	4.171	34.982.	6.07	4.025	27.769	34.625	41.251.	1.899	0.64	1730
2000	3.961	34.978.	6.14	3.794	27.790	34.655	41.290	2.025	0.63	1975
2500	3.577	34.972.	6.16	3.366	27.828	34.710	41.361	2.271	0.62	2466
3000	3.166	34.955.	6.17	2.911	27.858	34.758	41.426.	2.512.	0.63	2956
3500	2.749	34.933.	6.24.	2.450	27.881	34.800	41.487	2.745	0.62	3445
4000	2.451	34.914.	6.25.	2.104	27.895	34.828	41.529.	2.969.	0.48	3933.
4500	2.334	34.902.	6.26.	1.932	27.899	34.840	41.547	3.193	0.30	4419
5000	2.307	34.894.	6.24.	1.844	27.899	34.844	41.555.	3.427.	0.27	4905
5433	2.283	34.884.	6.16.	1.765	27.897	34.845	41.560	3.638	0.27	5325

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DF m
12	20.729	36.208	5.22.	0.4.	0.04.	0.2	20.727	25.490	37.973	12
102	18.108	36.489	5.23	1.3.	0.12.	2.5	18.090	26.392	38.990	101
243	17.954	36.494.	5.05.	1.3.	0.12	2.5.	17.912	26.440	39.047.	241
403	17.366	36.429	4.68.	2.1	0.25.	5.4	17.298	26.541	39.178	399
604	15.389	36.084.	4.22.	4.3.	0.61.	10.7	15.294	26.743	39.489	599
807	11.259	35.470	3.42.	11.2.	1.30.	20.6	11.155	27.114	40.103	799
1004	7.242	35.105.	4.07.	15.8.	1.55.	23.6	7.141	27.482	40.736	994
1200	5.317	35.024	5.23.	14.0.	1.36.	20.4	5.211	27.670	41.062	1188
1403	4.739	35.011	5.67.	13.2.	1.29	19.3	4.620	27.728	41.164	1388
1599	4.425	35.004.	5.89.	13.0	1.26.	18.9.	4.291	27.758	41.220	1581
1902	4.026	34.977.	6.04.	13.5.	1.24.	18.6	3.868	27.782	41.276	1879
2205	3.827	34.980	6.23.	14.7	1.25.	18.6.	3.642	27.807	41.319	2177.
2501	3.584	34.982	6.07.	16.1	1.25.	18.6.	3.373	27.835	41.367	2468.
2805	3.329	34.964.	6.15.	18.4.	1.26.	18.7.	3.092	27.848	41.402	2766
3100	3.101	34.976	6.07.	20.9	1.26	18.7	2.837	27.881	41.455	3054.
3406	2.814	34.936.	6.26.	21.8	1.26	18.5.	2.524	27.877	41.477	3353
3707	2.600	34.924	6.15.	24.8	1.29.	18.6.	2.282	27.888	41.507	3647
4004	2.445.	34.912.	6.14.	27.2	1.30.	18.7.	2.098.	27.893	41.528	3937.
4305	2.356	34.905	6.22.	30.1.	1.29	18.8.	1.976.	27.898	41.542	4230
4613	2.321	34.899	6.20.	30.9	1.32.	18.8.	1.905	27.898	41.549	4529.
4912	2.303	34.894	6.10	33.7.	1.35.	19.2.	1.851	27.899	41.554	4819
5114	2.303	34.893	6.15	32.4.	1.35	19.1.	1.826	27.900	41.557	5015
5313	2.288.	34.889.	6.12	35.5.	1.38.	19.6.	1.786.	27.900	41.560	5208.
5444	2.285	34.885	6.04	37.6.	1.38.	19.6	1.765	27.898	41.560	5335.

OCEANUS 133 STA-283 LAT= 38 40.1N LON= 53 29.9W SONIC DEPTH= 5324m
DATE 14/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
12	21.1152	36.208	5.19	21.115	25.383	31.720	37.850	0.003	4.30	1
25	20.9012	36.231	5.10	20.896	25.461	31.802	37.937	0.0632	2.00	25
50	20.4512	36.270	4.98	20.441	25.614	31.9652	38.109	0.1252	6.34	50
75	19.6882	36.535	4.27	19.675	26.020	32.3862	38.544	0.1802	5.90	74
100	19.0492	36.486	4.51	19.031	26.150	32.5322	38.705	0.2292	4.32	99
150	18.277	36.4842	5.02	18.250	26.3482	32.7482	38.9392	0.3182	2.40	1492
200	18.0702	36.471	5.07	18.0362	26.392	32.7972	38.9932	0.403	1.36	1982
300	17.8852	36.482	4.96	17.8332	26.4512	32.8612	39.061	0.5732	1.58	298
400	17.1642	36.3702	4.52	17.096	26.5442	32.9742	39.1932	0.7382	1.66	397
500	16.1862	36.191	4.31	16.1052	26.641	33.0972	39.3422	0.8982	2.29	496
600	14.092	35.810	3.97	14.0032	26.8142	33.3312	39.633	1.0472	2.54	5952
800	10.3942	35.352	3.57	10.2952	27.1762	33.8082	40.2202	1.2972	2.73	792
1000	6.6012	35.055	4.40	6.504	27.5302	34.293	40.8302	1.4722	2.26	990
1250	4.8212	34.989	5.662	4.715	27.699	34.5292	41.1292	1.6212	1.11	1237
1500	4.396	34.9862	5.962	4.271	27.7462	34.592	41.2092	1.7512	0.78	1483
1750	4.101	34.976	6.09	3.2956	27.7722	34.6302	41.2592	1.8772	0.63	1730
2000	3.9512	34.980	6.112	3.7842	27.7932	34.658	41.2932	2.0022	0.61	1975
2500	3.5972	34.973	6.12	3.3862	27.827	34.7082	41.358	2.2502	0.64	2466
3000	3.1652	34.9562	6.132	2.9102	27.8582	34.7592	41.4272	2.4912	0.61	2956
3500	2.8022	34.9352	6.202	2.5012	27.878	34.7952	41.4802	2.7252	0.63	3445
4000	2.440	34.913	6.232	2.0932	27.895	34.8292	41.5302	2.9492	0.49	3933
4500	2.3282	34.9012	6.202	1.9262	27.8982	34.8392	41.5472	3.173	0.31	4419
5000	2.3142	34.8942	6.202	1.8512	27.8982	34.8432	41.5542	3.4072	0.22	4905
5417	2.279	34.882	6.09	1.7642	27.8962	34.8442	41.5592	3.6112	0.332	5309

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	21.013	36.218	5.10	0.0	0.06	0.1	21.011	25.4202	37.891	12
97	19.364	36.542	4.07	1.52	0.27	5.22	19.346	26.1122	38.651	96
241	17.938	36.459	5.05	0.82	0.15	2.62	17.897	26.4172	39.025	239
393	17.3322	36.3972	4.52	1.62	0.31	2.82	17.265	26.5242	39.164	389
592	14.265	35.8452	4.08	5.22	0.81	13.32	14.176	26.8042	39.613	586
797	10.4402	35.3682	3.58	11.42	1.39	21.72	10.341	27.1812	40.221	789
1006	6.456	35.0532	4.54	14.02	1.50	22.12	6.360	27.5482	40.858	996
1194	4.983	34.9922	5.48	12.22	1.34	19.42	4.881	27.6832	41.100	1181
1392	4.5542	34.987	5.79	11.82	1.30	18.82	4.438	27.7292	41.180	1377
1593	4.2822	34.9842	5.97	11.82	1.28	18.52	4.150	27.758	41.2302	1575
1792	4.0682	34.9732	6.06	12.02	1.27	18.22	3.919	27.7732	41.2632	1771
2094	3.8922	34.9842	6.27	13.12	1.28	18.32	3.7162	27.8032	41.3082	2068
2396	3.6792	34.9782	6.20	14.62	1.29	18.42	3.4772	27.8222	41.3462	2365
2696	3.4172	34.9662	6.10	16.92	1.29	18.52	3.1892	27.8402	41.3872	2658
2998	3.1642	34.955	6.15	19.1	1.29	18.52	2.9102	27.8582	41.426	2954
3299	2.9472	34.9492	6.21	20.52	1.30	18.5	2.6662	27.8752	41.4632	3248
3605	2.6802	34.9312	6.232	22.52	1.30	18.42	2.3712	27.8862	41.4982	3548
3907	2.4792	34.9132	6.182	25.22	1.31	18.4	2.1422	27.891	41.5222	3841
4201	2.3772	34.908	6.192	27.7	1.32	18.6	2.0092	27.8972	41.5392	4129
4500	2.3282	34.900	6.242	30.22	1.36	19.1	1.9262	27.8982	41.5472	4419
4804	2.3132	34.896	6.26	31.82	1.36	19.22	1.8742	27.898	41.5522	4715
5107	2.3152	34.892	6.002	33.2	1.392	19.52	1.8382	27.8982	41.5542	5008
5304	2.3012	34.889	6.052	34.5	1.402	19.72	1.8002	27.8992	41.5582	5199
5424	2.2802	34.882	6.06	38.82	1.432	20.12	1.7642	27.8962	41.5582	5315

OCEANUS 133 STA-284
DATE 15/ 5/83

LAT= 38 50.2N LON= 53 29.5W

SONIC DEPTH= 5307m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	NE m
1	20.493	36.060	4.25	20.493	25.440	31.791	37.936	0.003	1.61	1
25	20.014	36.136	5.14	20.010	25.627	31.989	38.143.	0.063	9.62	25
50	18.673	36.404	5.51	18.664	26.182	32.573	38.755.	0.113	5.76	50
75	18.380	36.471	5.41	18.367	26.309.	32.706	38.894.	0.158	3.48	74
100	18.007	36.474	5.27	17.989	26.406	32.812	39.009.	0.200.	2.10.	99
150	17.874	36.461	5.22	17.848	26.430	32.840	39.041	0.282.	0.88.	149
200	17.812	36.467	5.12	17.778	26.452	32.864	39.066	0.364.	1.14.	198
300	17.395	36.365	5.14	17.344	26.481	32.904	39.117.	0.529.	0.92	298
400	16.939	36.328	4.79	16.873	26.566	33.001	39.226	0.693	2.01	397
500	15.493	36.092	4.10	15.415	26.722	33.198	39.461	0.848.	2.52	496
600	13.356	35.724	3.88	13.270	26.900	33.438	39.761	0.988.	2.60	595
800	8.667	35.156	3.57.	8.579	27.308	33.998	40.465	1.216	2.74	792
1000	5.905	35.045	4.84.	5.814	27.612	34.399	40.960	1.366	1.85	990
1250	4.820	35.014	5.64.	4.715	27.720	34.549	41.149.	1.503	0.92	1237.
1500	4.369	34.993	5.94.	4.244	27.755	34.602	41.220	1.630	0.71	1483
1750	4.093	34.983.	6.06.	3.948	27.778	34.637	41.266.	1.754	0.66	1730
2000	3.894	34.977.	6.11.	3.728	27.796	34.664	41.301.	1.877	0.59	1975.
2500	3.550	34.974.	6.09.	3.340	27.832	34.715.	41.367.	2.121	0.62	2466
3000	3.142	34.955.	6.10.	2.888	27.860	34.761	41.430	2.359	0.61	2956
3500	2.747	34.933	6.18.	2.448	27.881	34.800	41.487.	2.590	0.61	3445
4000	2.430	34.912	6.22	2.083	27.895	34.829	41.531.	2.813	0.46	3933
4500	2.327.	34.901	6.20.	1.925	27.898	34.839	41.547.	3.037.	0.30	4419
5000	2.317.	34.895.	6.18.	1.854	27.899	34.843	41.554.	3.270	0.23	4905
5403	2.278.	34.883.	6.10.	1.764	27.897	34.845	41.559.	3.467	0.35	5295

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C.	SIG-θ kg/m3	SIG-3 kg/m3	NE m
6	20.342	36.036.	5.54	0.4.	0.01	0.2	20.341	25.463	37.966	6
96	18.062	36.429	5.27	0.8.	0.05	1.4	18.045	26.357	38.959	95
245	17.629	36.417	5.07	1.5.	0.13	3.1	17.586	26.461	39.085	243
393	16.818	36.299	4.76	2.4.	0.33	6.1	16.753	26.572	39.239	389
594	13.050	35.695	3.74	7.9.	1.03	17.2	12.967	26.939	39.818.	589
804	8.429	35.106	3.67.	15.3.	1.56	24.6	8.342	27.305	40.479.	796
995	6.075	35.052	5.35.	14.4	1.42	21.8	5.983	27.596	40.933	985
1193	4.872	35.005	5.62.	12.9.	1.28	19.5	4.772	27.706	41.131	1180
1389	4.503	34.999.	5.83.	12.6.	1.25	19.1	4.388	27.744	41.198	1374
1592	4.248	34.985.	5.97.	12.7.	1.24	18.9.	4.116	27.762	41.237	1574
1791	4.084	34.982.	6.04.	12.7.	1.23	18.6.	3.935	27.779	41.268	1770
2093	3.853	34.998.	6.00.	13.6	1.23	18.3.	3.678	27.818	41.326	2066
2394	3.653	34.976.	6.02.	15.4.	1.25	18.5.	3.452	27.823	41.349	2362
2698	3.384	34.966.	6.07.	17.6.	1.26	18.6.	3.157	27.843	41.393	2660
3000	3.143	34.954.	6.18	19.7.	1.25	18.5	2.889.	27.859	41.429	2956
3301	2.882	34.940.	6.19.	21.4	1.26	18.4.	2.602	27.873	41.467	3250
3601	2.654	34.927.	6.24.	23.2	1.27	18.4	2.347	27.885	41.499	3543
3903	2.471	34.914.	6.29.	25.8	1.28	18.5	2.135	27.892	41.524	3838.
4208	2.371.	34.906	6.24.	28.2	1.29	18.6	2.002	27.896	41.539	4135.
4502	2.325	34.900		30.1	1.32.	18.9	1.923	27.898	41.547	4421
4806	2.317.	34.896		31.6	1.33.	19.0	1.878	27.898	41.551	4716
5103	2.315.	34.892	6.14	34.1.	1.37	19.6	1.839	27.898	41.554	5004
5300	2.287.	34.888	6.19	36.4.	1.40.	19.9	1.788	27.899	41.559	5196
5411	2.279.	34.882	6.06.	38.8	1.42.	20.0	1.764	27.896	41.558	5303

OCEANUS 133 STA-285 LAT= 39 0.0N. LON= 53 30.0W SONIC DEPTH= 5285m
DATE 15/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	NE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	19.584	36.027	5.46.	19.584	25.656	32.029.	38.194.	0.002	4.63	1
25	19.407	36.215	5.40	19.403	25.847	32.222.	38.389	0.056	3.70	25
50	19.486	36.408	5.04	19.477.	25.976	32.347	38.511	0.109.	4.99	50
75	19.312	36.558	4.58	19.299.	26.136	32.510	38.677	0.159.	4.10	74
100	19.211	36.558	4.78	19.193.	26.164	32.541	38.710	0.206.	2.40	99
150	17.968.	36.357	4.66	17.942.	26.327	32.736	38.935.	0.297.	3.22	149
200	17.294.	36.272.	4.90	17.260.	26.429	32.855	39.071	0.382.	2.97	198
300	14.793	35.803	5.12	14.748.	26.648	33.144	39.427.	0.537	2.26.	298
400	13.873.	35.713.	4.69.	13.815.	26.778	33.301.	39.610.	0.680.	2.05.	397
500	9.738	34.904	5.20	9.680	26.932	33.588.	40.024.	0.813	3.35	496
600	5.712	34.415.	5.67	5.661.	27.133.	33.934.	40.507.	0.921.	2.23.	595
800	7.005	35.069.	4.17	6.926	27.484.	34.231.	40.754.	1.094.	2.16	792
1000	5.247	35.015	5.32.	5.161.	27.668.	34.480.	41.065.	1.217.	1.35	990
1250	4.573	35.002	5.81.	4.470	27.737	34.576	41.185.	1.346.	0.80.	1237
1500	4.225	34.985.	6.02.	4.102.	27.763.	34.616.	41.239.	1.468.	0.67.	1483
1750	4.016	34.979	6.10.	3.872.	27.783.	34.645.	41.277.	1.589.	0.58.	1730
2000	3.861	34.979	6.12	3.696.	27.801.	34.670.	41.308.	1.711.	0.64.	1975
2500	3.480.	34.971.	6.11	3.271.	27.836	34.722.	41.377.	1.950.	0.62.	2466
3000	3.079.	34.953.	6.13	2.827.	27.863.	34.767.	41.439.	2.184.	0.60.	2956
3500	2.687	34.930	6.21.	2.390.	27.883.	34.805.	41.494.	2.412.	0.58.	3445
4000	2.406.	34.913.	6.23	2.060.	27.897.	34.832.	41.535.	2.633.	0.48.	3933
4500	2.307.	34.899.	6.18.	1.905.	27.899.	34.841	41.549.	2.855.	0.27.	4419
5000	2.297.	34.893	6.15.	1.834.	27.899.	34.844	41.555.	3.087.	0.24.	4905
5377	2.282.	34.886.	6.09	1.772.	27.898.	34.846	41.560.	3.270.	0.27.	5270

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	NE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	19.586	36.026	5.37.	0.0.	0.05.	0.1	19.586	25.655	38.192	1
100	19.115	36.549	4.77.	0.9.	0.15.	2.8	19.097	26.182	38.732	100
254	16.690	36.272	4.55.	2.3.	0.40.	7.2	16.648	26.576	39.249	252
400	13.608	35.602	5.11	3.7.	0.59.	9.0	13.550	26.747.	39.596	396
599	5.611	34.796	5.71	7.9.	1.04.	13.7.	5.559	27.447	40.819	594
801	7.143	35.091		14.0	1.53.	22.9	7.064	27.482.	40.742	793
999	5.290	35.018	5.23	12.8.	1.38.	20.2.	5.204	27.666.	41.059	989
1198	4.674	34.999	5.71	11.9	1.30	18.9.	4.574	27.723.	41.164	1186
1392	4.365	34.992	5.94	11.8.	1.28.	18.5.	4.251	27.753.	41.218	1377
1592	4.137	34.982.	6.10	12.0.	1.27	18.4.	4.006	27.771.	41.255	1574
1796	3.990	34.986	6.06	12.5.	1.26	18.3.	3.842.	27.792.	41.287.	1774
2100	3.796	34.985.	6.06	13.6.	1.26.	18.2.	3.621.	27.813	41.326.	2074
2395	3.591	34.976.	6.06	15.3	1.28	18.4.	3.391.	27.829.	41.360.	2363
2693	3.336	34.966	6.12	17.5.	1.28	18.5.	3.111.	27.843	41.401	2655
2999	3.107	34.955.	6.11	19.3.	1.28.	18.5.	2.854.	27.863	41.436	2955
3599	2.633	34.927.	6.19	22.4	1.26.	18.3.	2.326.	27.886.	41.502	3541
3898	2.449	34.914.	6.24	25.7	1.29.	18.5.	2.114.	27.894	41.527.	3833
4200	2.342.	34.905	6.13	29.5	1.32	18.9.	1.975	27.898	41.543	4127
4503	2.306.	34.900.	6.14	31.2	1.35.	19.2.	1.904.	27.899.	41.550.	4422
4801	2.296	34.896.	6.18	32.7	1.37.	19.4.	1.858.	27.900.	41.554.	4711
5105	2.283.	34.890.	6.12	36.6	1.41.	20.1.	1.808.	27.899.	41.558.	5006
5305	2.282.	34.889.	6.11.	36.6.	1.41.	19.9.	1.781.	27.900.	41.561.	5200
5389	2.284.	34.887.	6.13	37.0	1.40	19.9.	1.772.	27.899.	41.561.	5281

OCEANUS 133 STA-286
DATE 15/ 5/83

LAT= 39 10.1N LON= 53 30.0W

SONIC DEPTH= 5270m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	coh	m
1.	20.179	36.064.	4.73	20.179	25.528	31.886	38.038	0.002	-1.23	1
25	20.081	36.073	5.21	20.077	25.562	31.923	38.076	0.061	5.08	25
50	18.138	35.943	5.37	18.130	25.963	32.371	38.570	0.118	7.15.	50
75	17.025	35.966	5.24	17.012	26.254	32.690	38.914	0.165	5.57	74
100	17.813	36.417.	5.09	17.796	26.410	32.821	39.023	0.207.	2.04	99
150	17.718	36.464.	4.81	17.692	26.472	32.885.	39.089	0.289.	2.21	149
200	15.732	35.991.	5.09	15.701	26.579	33.049	39.305.	0.367.	2.78	198
300	14.238	35.758	4.99	14.194	26.732	33.245	39.543.	0.511.	1.93	298
400	12.606	35.587	3.79	12.552	26.938	33.499	39.843.	0.644	3.00	397
500	8.836	34.989	4.07	8.781	27.145	33.829	40.292	0.755.	2.67.	496
600	7.033	34.901	4.23	6.975	27.345	34.092	40.615.	0.846.	2.35.	595
800	6.017	35.074	4.87	5.944	27.618	34.401	40.957.	0.985.	1.78	792
1000	4.890	35.007	5.56	4.807	27.703	34.529	41.126	1.092.	1.05	990
1250	4.318	34.976	5.95	4.218	27.744	34.592	41.211.	1.214	0.69	1237
1500	4.041	34.963	6.11	3.920	27.765	34.625	41.256.	1.334.	0.61	1483
1750	3.910	34.967.	6.11	3.768	27.784	34.650	41.286.	1.453	0.55	1729
2000	3.787.	34.973.	6.11	3.622	27.803	34.675	41.316.	1.573.	0.62	1975
2500	3.434	34.969.	6.07	3.226	27.840	34.727	41.383.	1.810	0.62	2466
3000	3.000	34.948	6.10	2.750.	27.866	34.773	41.448.	2.041	0.61	2956
3500	2.638	34.929.	6.17	2.342.	27.887	34.810	41.501	2.264.	0.57	3445
4000	2.397.	34.911.	6.15	2.052	27.896	34.832	41.535.	2.482	0.41	3933.
4500	2.303	34.899.	6.11	1.902	27.899	34.841	41.550.	2.704	0.25	4419
5000	2.304	34.893.	6.09	1.841	27.899	34.844	41.555.	2.936.	0.22	4905
5285	2.273.	34.885.	6.11	1.775.	27.898	34.845	41.559.	3.074	0.31	5181

PR	T.	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
15	20.128	36.045	5.23	0.0.	0.05	0.1	20.125	25.527	38.040	15
92	16.381	35.874.	4.84	1.3.	0.33	4.9	16.366	26.336	39.030	91
243	15.838	36.081	4.68	2.8.	0.46	7.8	15.800	26.626	39.346	241
396	12.385	35.476	4.66	5.7.	0.84	12.9	12.331	26.895	39.815	393
592	7.312.	34.875	4.10	12.4	1.42	20.8	7.254	27.285	40.537	587
794	6.271	35.073	4.76.	13.4.	1.45.	21.2	6.197	27.585	40.906	786
992	4.975	35.014	4.63.	12.4.	1.35.	19.4.	4.892	27.699	41.116	982
1193	4.497	34.990.	5.76.	11.8.	1.30.	18.6	4.399	27.736	41.189	1180.
1395	4.191	34.979.	6.12	11.8.	1.28	18.3.	4.078	27.761	41.239	1380
1595	4.010	34.971.	6.07	12.0.	1.27.	18.2.	3.881	27.776	41.269	1577.
1802	3.898	34.970	6.02	12.4	1.27	18.1	3.751	27.788	41.291	1780
2001	3.795	34.984		13.2.	1.27.	18.2	3.631	27.812	41.324	1977
2303	3.576	34.974.	6.02	14.9.	1.28	18.3	3.385	27.828	41.359	2273
2604	3.362	34.969.	6.04	17.2.	1.29	18.4	3.145	27.847	41.397	2568.
2870	3.134.	34.958.	6.06	18.9	1.28.	18.3	2.894	27.861	41.431	2828.
3193	2.882.	34.945.	6.05	20.4.	1.27.	18.3	2.614	27.876.	41.469	3145
3502	2.668	34.930.	6.17	22.2.	1.30	18.3	2.371.	27.885	41.497	3447.
3804	2.462	34.917	6.14	25.2.	1.33.	18.5	2.137	27.894	41.526	3741
4103	2.356	34.908		28.4	1.33.	18.7.	2.000	27.898	41.541	4033
4401	2.315	34.908.		29.9	1.37	19.0	1.925	27.904	41.553	4323
4706	2.301	34.899.	6.06	32.3	1.38	19.2.	1.875	27.901	41.554	4619
5002	2.304	34.898.	6.11	33.5	1.40.	19.6	1.840	27.903	41.559	4907
5214	2.285.	34.900.	6.07	35.1	1.43.	19.8.	1.795	27.908	41.567	5112.
5299	2.264	34.890.	6.06	38.8	1.45.	20.2.	1.765	27.902	41.565	5194.

OCEANUS 133 STA-287
DATE 15/ 5/83

LAT= 39 21.5N LON= 53 29.0W

SONIC DEPTH= 5255m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	13.831	33.699	6.36	13.830	25.218	31.761	38.089	0.008	7.60.	3
25	13.119	34.436	6.53	13.115	25.934	32.490	38.830	0.063	10.02	25
50	12.973	34.892	6.32	12.966	26.316	32.872	39.212	0.109.	5.35	50
75	15.841.	35.988	4.96	15.829	26.548	33.014	39.268	0.149	4.23	74
100	15.748	35.997	4.89	15.732	26.577	33.046	39.302	0.186.	3.07	99
150	13.113.	35.414	5.80	13.092.	26.696	33.243	39.574	0.257.	1.71	149
200	12.404.	35.321	5.44	12.377	26.766	33.335.	39.687	0.326	3.00	198.
300	11.815	35.493	3.58	11.776	27.016	33.601	39.968	0.447.	2.57	298.
400	7.953	34.887	4.20	7.912.	27.199	33.914	40.406	0.550.	2.53	397
500	7.657	35.065	3.81	7.607.	27.383	34.107	40.607	0.635.	2.28.	496
600	6.244	35.000	4.51	6.189.	27.529	34.303	40.851	0.706.	1.92	595
800	5.116	35.001	5.34	5.049	27.670	34.487	41.075	0.820	1.28.	792
1000	4.524	34.978	5.84	4.443.	27.722.	34.561	41.172	0.919.	0.82	990
1250	4.103	34.954	6.15	4.004.	27.749	34.606	41.233	1.037.	0.61	1237
1500	4.074	34.980	6.06	3.953	27.775	34.634	41.263	1.154.	0.61.	1483
1750	3.913	34.980.	6.09	3.771.	27.794	34.660	41.295	1.271	0.56	1729.
2000	3.748	34.980.	6.09	3.584.	27.813	34.686	41.329	1.389.	0.59	1975.
2500	3.346	34.966	6.08	3.139	27.845	34.736	41.396	1.621.	0.63.	2466.
3000	2.951	34.946	6.13	2.701	27.869	34.778	41.455	1.847.	0.57.	2956.
3500	2.608	34.926	6.18	2.313	27.887	34.812.	41.504.	2.068	0.56	3445.
4000	2.356.	34.909	6.20	2.012	27.898	34.835.	41.539.	2.285.	0.40.	3933.
4500	2.292	34.899.	6.15	1.891	27.899	34.842	41.551	2.505	0.25	4419.
5000	2.283	34.892	6.16	1.821	27.899	34.845	41.557.	2.737.	0.26	4905
5345	2.248	34.879	6.01	1.743	27.895.	34.844	41.559.	2.904.	0.27.	5239

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
7	12.447.	33.124.	6.42	0.5.	0.22	0.2	12.446	25.048	38.009	7
102	6.207	33.756	6.66	2.7	0.59	5.1	6.198	26.545	39.895.	101
251	11.565	35.434	4.11	8.1.	1.05.	16.9	11.533	27.016.	39.983.	249
403	7.613	34.913	4.28	11.5	1.34.	19.7	7.573	27.269	40.498.	400
603	6.396	35.032	4.34	14.7	1.54.	22.8	6.341	27.534.	40.845.	598
806	5.373	35.045	5.30	13.0	1.38	20.1.	5.304.	27.675	41.061.	798
1004	4.595	34.991	5.69	12.2	1.30.	19.8.	4.514	27.724	41.169.	994
1191	4.147	34.951	6.15	11.4.	1.24.	17.9.	4.053	27.742	41.222.	1179
1393	4.173	34.982	6.06	12.5	1.29.	18.3.	4.061	27.766	41.245	1378
1591	4.019	34.977	6.15	12.8.	1.28.	18.3.	3.890.	27.779	41.272	1573
1790	3.877	34.977	6.14	13.5	1.26.	18.2.	3.731.	27.796	41.300	1769
2091	3.684	34.977		14.5.	1.28.	18.5.	3.512.	27.818	41.339	2065
2394	3.437	34.970	6.14		1.29.	18.5.	3.240.	27.839.	41.381	2363
2696	3.185	34.958.	6.08		1.30	18.6	2.962.	27.855.	41.420	2659
2997	2.975	34.946	6.19		1.29	18.5.	2.725	27.867	41.451	2953
3297	2.731	34.931	6.24		1.30	18.5.	2.455	27.879	41.484	3246
3597	2.551.	34.920	6.27	25.5.	1.31.	18.6.	2.247	27.888.	41.510	3539
3897	2.400.	34.910.	6.24.	27.2.	1.31	18.5.	2.066	27.894.	41.532	3832
4198	2.330.	34.904	6.16	29.6.	1.31.	18.8.	1.964.	27.898.	41.544	4125
4506	2.292	34.896		32.7	1.37	19.3.	1.890.	27.897.	41.549	4424
4802	2.291.	34.893	6.17	33.8.	1.37.	19.4.	1.853.	27.898	41.553	4712
5008	2.285.	34.893.	6.23	34.5.	1.39.	19.5.	1.821.	27.900.	41.558	4912
5205	2.282.	34.889.	6.19	33.6.	1.39.	19.3.	1.794.	27.899.	41.559	5103
5353	2.249.	34.878.	5.97	42.8.	1.50.	20.8.	1.743.	27.894.	41.559	5246

OCEANUS 133 STA-288 LAT= 39 30.0N LON= 53 30.1W SONIC DEPTH= 5235m
DATE 15/ 5/83

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cph	NE m
1	16.194	34.750.	5.82	16.194	25.512	31.980	38.237	0.002	6.27	1
25	14.290	35.158.	6.33	14.287	26.249	32.765	39.066.	0.055	8.67	25
50	16.221.	36.011.	5.58	16.213	26.478	32.933	39.177	0.096	3.97	50
75	15.559	35.926.	5.25	15.547	26.564	33.038	39.300	0.134	3.14.	74
100	14.807	35.787.	5.31	14.792	26.626	33.121.	39.403	0.170	2.50	99
150	13.318	35.472.	5.43	13.297	26.699	33.239	39.564	0.241	2.00	149
200	12.720	35.408	5.25	12.693	26.772.	33.330	39.672	0.308	2.77	198
300	11.350	35.415	3.61	11.312	27.042	33.642	40.023	0.429	2.97	297
400	8.801	35.135	3.48.	8.757	27.263	33.947	40.409	0.527	2.49	397
500	7.361	35.045	3.90	7.311	27.411	34.145.	40.655	0.609.	2.20	496
600	6.383	35.038	4.41.	6.328.	27.540	34.309	40.853	0.678	2.09	595
800	4.979	35.009.	5.48.	4.912.	27.692	34.514	41.107	0.787.	1.19.	792
1000	4.549	34.995.	5.82	4.468	27.732	34.571	41.180	0.883.	0.75.	990
1250	4.238	34.984.	5.99.	4.138	27.759	34.611	41.233	0.999	0.61	1237
1500	4.030	34.977.	6.07	3.909	27.778	34.638	41.268	1.115	0.57	1483
1750	3.885	34.978.	6.10	3.743.	27.796	34.663.	41.299	1.232	0.59	1729
2000	3.713.	34.978	6.10	3.549	27.815	34.689	41.333	1.348	0.59	1975
2500	3.313	34.963.	6.11	3.107.	27.846	34.738	41.399	1.579	0.60	2466
3000	2.932	34.941	6.18	2.682.	27.867	34.777	41.454	1.805.	0.57	2956
3500	2.575	34.924	6.20	2.280.	27.888	34.815	41.508.	2.026	0.57	3445
4000	2.348.	34.908	6.22	2.004	27.898	34.836	41.540.	2.241.	0.39	3932.
4500	2.300.	34.900.	6.22	1.898	27.900.	34.842	41.551.	2.461	0.23	4419
5000	2.288.	34.891.	6.16	1.826	27.898	34.843	41.555.	2.693	0.24	4905
5317	2.251.	34.881.	6.04	1.749	27.896	34.844	41.560.	2.846	0.30	5212

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	NE m
5	17.627	35.477	6.10	1.1.	0.08	0.1	17.626	25.730	38.370	4
105	14.414	35.711	5.57	3.1.	0.44	6.8.	14.399	26.652	39.452	104
255	11.788.	35.326	4.83	5.6.	0.78	11.8.	11.755	26.890	39.846	253
399	9.148.	35.175	3.61	14.0	1.55	23.5.	9.104	27.239	40.362	395
595	6.098.	35.011	4.74	14.8	1.50.	22.0	6.045	27.556.	40.889	590
793	5.070.	35.011	5.51	13.3	1.37	19.9	5.004	27.684.	41.092	785
990	4.590.	35.000	5.99.	12.8.	1.31	18.9.	4.510	27.731	41.176	980
1189	4.324.	34.988	5.87.	12.7.	1.28	18.5.	4.228	27.753.	41.219	1177
1394	4.132.	34.983	6.18.	13.0.	1.28	18.4.	4.020	27.771	41.253	1378
1590	3.976.	34.976	6.04.	13.3.	1.28.	18.4.	3.848	27.783	41.279	1572
1794	3.861.	34.978	6.15.	14.1.	1.27.	18.3.	3.715	27.798.	41.304	1772
2094	3.671.	34.979	6.09.	15.6.	1.28.	18.4.	3.499	27.821	41.343	2067
2394	3.428	34.966	6.10.	17.0.	1.28.	18.3.	3.231	27.836	41.380	2362
2693	3.193	34.963.		19.3.	1.29	18.5.	2.970.	27.858	41.422	2656.
2996	2.934	34.942		19.4.	1.26	17.9	2.685	27.867	41.454	2952
3304	2.715.	34.931.	6.17	23.4.	1.29	18.3	2.439	27.880	41.487	3253
3601	2.494.	34.917	6.18	25.6.	1.31	18.3.	2.190	27.890	41.517	3544
3897	2.365.	34.907	6.15	28.6.	1.32	18.6	2.032	27.895	41.535	3832
4203	2.316.	34.903	6.18	28.3.	1.31	18.4.	1.950	27.898	41.545	4130
4502	2.297.	34.900	6.19	30.1	1.33	18.7.	1.895	27.900.	41.551	4420
4807	2.299	34.896.	6.19	30.7.	1.32	18.5.	1.861	27.899	41.554	4717
5003	2.287.	34.890.	6.10	35.3.	1.40	19.5.	1.825	27.897	41.555	4907
5210	2.273.	34.888.	6.16	35.1.	1.40	19.4.	1.785	27.899	41.560	5108
5326	2.252.	34.877.	6.01	41.7.	1.50	20.4.	1.750	27.893	41.557	5220.

OCEANUS 133 STA-289 LAT= 39 44.1N LON= 53 29.0W SONIC DEPTH= 5225m
DATE 15/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	17.702.	35.166	5.29	17.702	25.473	31.899	38.115	0.002	9.03.	1
25	17.518.	35.793	5.90	17.514	26.000	32.425.	38.639	0.054	9.59.	25
50	15.211.	35.819	5.64	15.203	26.559	33.043.	39.315	0.095.	3.83.	50
75	14.748.	35.767	5.31	14.737.	26.622	33.119	39.403	0.131.	2.55.	74
100	13.977.	35.621	5.25	13.962.	26.676	33.196.	39.502	0.166.	2.24	99
150	13.193.	35.496	5.07	13.172	26.743	33.286	39.614	0.234	2.38.	149
200	12.915.	35.577	4.26	12.887.	26.863	33.415.	39.750	0.299.	3.14	198
300	9.945.	35.210	3.63	9.910	27.132	33.777	40.203	0.410	2.84.	297
400	7.054.	34.894	4.16	7.016	27.334	34.080.	40.601	0.499.	2.58.	397
500	6.936.	35.063	4.13	6.889.	27.484	34.233.	40.757	0.572	2.07.	496
600	5.515.	35.005	5.00	5.464.	27.624	34.425.	40.999.	0.633.	1.60.	595
800	4.842.	35.009	5.59	4.777.	27.709	34.535.	41.134.	0.733.	1.06	792
1000	4.433.	34.992	5.88	4.353.	27.742	34.585.	41.199.	0.827.	0.82	990
1250	4.166	34.986	6.00	4.066.	27.768.	34.622.	41.247.	0.940.	0.57.	1237
1500	3.991.	34.980.	6.08	3.871.	27.784	34.646.	41.278.	1.054	0.54.	1483
1750	3.836.	34.980	6.09	3.695	27.802.	34.671	41.309	1.169	0.58.	1729
2000	3.655.	34.973	6.11	3.493.	27.817	34.694.	41.340.	1.284.	0.58.	1975
2500	3.255.	34.959.	6.12	3.050.	27.848	34.743.	41.406.	1.512.	0.60.	2466
3000	2.891.	34.942.	6.15	2.642.	27.871	34.783.	41.462.	1.735.	0.61.	2956
3500	2.477.	34.919	6.18	2.185.	27.892.	34.822.	41.520.	1.951.	0.56	3445
4000	2.315.	34.905.	6.15.	1.971.	27.898.	34.837.	41.543.	2.163.	0.35.	3932
4500	2.255.	34.896	6.12	1.855	27.900.	34.844.	41.554.	2.381.	0.25.	4419
5000	2.241.	34.887	6.10	1.781.	27.898.	34.845.	41.559.	2.610.	0.19.	4904
5305	2.253.	34.881.	6.03.	1.753.	27.896.	34.845.	41.560.	2.757.	0.16.	5200

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
14	18.185	35.577	5.50	0.7.	0.06	0.1	18.183	25.670	38.281	14
104	14.015	35.726	5.30	2.9.	0.48	7.2	14.000	26.749	39.570	103
259	11.444	35.439	3.66	9.5.	1.19	19.0	11.411	27.042	40.017	257
404	7.624	34.971	3.98	13.7.	1.46.	22.2	7.584	27.313	40.540	400
604	5.821	35.033	4.79	14.1.	1.43	21.4	5.768	27.608	40.961	598
801	4.905	35.011	5.42	12.6.	1.30.	19.2	4.840	27.703	41.123.	793
1001	4.484	34.997	5.78.	12.3.	1.23.	18.3.	4.404	27.741	41.194.	991
1200	4.203	34.979.	5.95	12.1	1.21	17.9	4.108.	27.758	41.234	1187
1396	4.065.	34.983	6.04.	12.7.	1.22.	18.0.	3.953.	27.778.	41.265.	1381
1601	3.941	34.976	6.06	13.0.	1.22.	18.1.	3.812	27.787.	41.285.	1582
1799.	3.794.	34.979.	6.10	13.9.	1.20.	17.9.	3.649.	27.806.	41.316.	1778
2002.	3.631.	34.972.	6.06	14.5.	1.20	17.9.	3.469.	27.818	41.343.	1977
2298.	3.428.	34.968	6.14.	16.5.	1.22	18.2.	3.240.	27.837	41.380.	2268
2596.	3.186.	34.957	6.16		1.22	18.1.	2.973.	27.853	41.417.	2561
2893.	2.992.	34.947	6.03.	19.9	1.22.	18.1.	2.753.	27.865	41.447.	2851
3193.	2.721	34.931		20.3	1.20	17.6.	2.456.	27.879	41.484.	3145
3504.	2.474.	34.918.		24.7.	1.22.	18.1.	2.182.	27.891	41.519.	3449
3758.	2.363.	34.908	6.03	27.5	1.25	18.5.	2.046.	27.894	41.533.	3697
4104.	2.291.	34.900.	6.10	30.8.	1.28.	18.7.	1.936.	27.897	41.545.	4033
4407.	2.262	34.895		32.5.	1.31.	18.9.	1.873.	27.898.	41.551.	4328
4706.	2.246.	34.890.	6.10	35.1.	1.31	19.2.	1.821.	27.898.	41.555.	4619
5008.	2.242.	34.886.	6.06	36.8.	1.36.	19.7.	1.780.	27.898.	41.559.	4917
5205.	2.256	34.885.	6.15	37.7.	1.35.	20.0.	1.768.	27.898.	41.560	5103
5316.	2.254.	34.880.	6.06	41.0.	1.37	20.0.	1.752	27.895.	41.559.	5210

OCEANUS 133 STA-290
DATE 15/ 5/83

LAT= 39 59.9N LON= 53 31.5W

SONIC DEPTH= 5200m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	17.264	35.446	5.60	17.264	25.794	32.228	38.452	0.002	-4.25	1
25	13.037	34.675	6.84	13.034	26.135	32.691	39.031	0.056	11.46	25
50	8.323	34.166	7.06	8.318	26.572	33.281	39.767	0.095	3.99	50
75	10.561	34.778	6.14	10.552	26.683	33.313	39.723	0.130	3.05	74
100	11.255	34.997	5.75	11.242	26.730	33.336	39.724	0.164	2.47	99
150	11.686	35.233	5.15	11.667	26.834	33.425	39.798	0.228	3.22	149
200	12.060	35.511	3.73	12.034	26.980	33.557	39.917	0.286	2.65	198
300	8.841	35.075	3.66	8.809	27.208	33.891	40.352	0.387	2.51	297
400	7.698	35.085	3.80	7.658	27.392	34.113	40.611	0.471	2.54	397
500	6.350	35.034	4.45	6.304	27.540	34.310	40.854	0.539	2.06	496
600	5.510	35.008	5.04	5.459	27.627	34.428	41.002	0.596	1.50	595
800	4.786	35.011	5.64	4.721	27.716	34.545	41.145	0.695	1.02	792
1000	4.447	34.998	5.85	4.367	27.745	34.588	41.201	0.787	0.67	990
1250	3.977	34.953	6.18	3.879	27.762	34.624	41.255	0.900	0.56	1237
1500	3.910	34.969	6.13	3.790	27.784	34.649	41.284	1.014	0.56	1483
1750	3.827	34.982	6.10	3.686	27.804	34.673	41.312	1.128	0.61	1729
2000	3.626	34.976	6.10	3.464	27.822	34.700	41.347	1.242	0.58	1975
2500	3.214	34.958	6.13	3.010	27.851	34.747	41.412	1.467	0.59	2466
3000	2.829	34.940	6.19	2.582	27.875	34.789	41.470	1.687	0.59	2956
3500	2.486	34.919	6.20	2.194	27.891	34.821	41.518	1.901	0.51	3445
4000	2.317	34.906	6.16	1.974	27.898	34.837	41.543	2.113	0.35	3932
4500	2.280	34.899	6.19	1.879	27.901	34.844	41.553	2.332	0.23	4419
5000	2.253	34.887	6.09	1.792	27.897	34.844	41.558	2.562	0.24	4904
5289	2.244	34.880	6.03	1.747	27.896	34.845	41.560	2.701	0.20	5184

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
13	17.450	35.454	5.66	1.1	0.06	0.1	17.448	25.756	38.405	13
96	14.065	35.680	5.02	3.8	0.51	8.2	14.051	26.703	39.522	95
247	11.029	35.389	3.56	10.4	1.25	19.7	10.998	27.079	40.080	245
397	7.370	34.990	4.08	14.5	1.50	22.4	7.331	27.364	40.608	393
593	5.467	34.999	4.99				5.416	27.625	41.003	588
789	4.864	35.008	5.48				4.800	27.705	41.128	781
989	4.412	34.991	5.84	12.4	1.22	17.9	4.333	27.744	41.202	979
1190	4.131	34.973	6.04	11.7	1.18	17.4	4.037	27.761	41.242	1177
1389	3.946	34.960	6.10	12.1	1.18	17.4	3.837	27.771	41.268	1373
1590	3.921	34.977	6.07	12.9	1.22	18.0	3.794	27.789	41.289	1571
1787	3.814	34.981	6.07	13.5	1.19	17.6	3.670	27.805	41.314	1766
2097	3.527	34.967	6.08				3.358	27.825	41.358	2070
2397	3.317	34.963	6.09	14.8	1.23	18.0	3.121	27.844	41.396	2365
2694	3.072	34.951	6.11	18.4	1.22	17.9	2.851	27.860	41.433	2656
2997	2.836	34.939	6.16	20.1	1.21	17.6	2.589	27.874	41.468	2952
3301	2.609	34.925	6.18	22.0	1.20	17.4	2.335	27.884	41.499	3250
3605	2.432	34.915	6.16	26.8	1.26	18.1	2.130	27.893	41.525	3547
3902	2.333	34.906	6.16	28.7	1.29	18.4	2.000	27.896	41.539	3836
4201	2.286	34.900	6.14	30.6	1.30	18.8	1.921	27.898	41.547	4128
4503	2.281	34.898	6.15	29.3	1.28	18.3	1.880	27.900	41.552	4421
4808	2.261	34.891	6.07	34.9	1.33	19.0	1.824	27.898	41.556	4718
5003	2.252	34.887	6.06	36.5	1.39	19.7	1.790	27.898	41.558	4907
5200	2.242	34.880	6.04	39.8	1.43	20.4	1.756	27.895	41.558	5098
5295	2.246	34.879	5.99	41.0	1.39	19.7	1.747	27.895	41.559	5190

OCEANUS 133 STA-291
DATE 16/ 5/83

LAT= 40 30.0N LON= 53 30.0W

SONIC DEPTH= 5145m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	NE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	18.078	35.646	5.52	18.078	25.748	32.161	38.363	0.002	-1.21	1
25	16.688	35.815	6.22	16.684	26.216	32.661	38.896	0.054	10.15	25
50	15.183	35.818	5.67	15.176	26.564	33.049	39.321	0.094	4.61	50
75	14.552	35.720	5.48	14.540	26.629	33.132	39.421	0.130	2.42	74
100	14.038	35.628	5.40	14.023	26.669	33.187	39.491	0.165	2.36	99
150	12.965	35.446	5.21	12.844	26.770	33.324	39.662	0.233	2.47	149
200	12.709	35.546	4.47	12.682	26.880	33.438	39.779	0.296	3.12	198
300	10.689	35.386	3.42	10.652	27.140	33.760	40.161	0.406	2.54	297
400	8.650	35.165	3.55	8.607	27.310	33.999	40.465	0.497	2.65	397
500	6.800	35.050	4.29	6.753	27.493	34.247	40.775	0.571	2.22	496
600	5.763	35.016	4.88	5.711	27.602	34.394	40.959	0.632	1.66	595
800	4.791	35.001	5.63	4.726	27.707	34.536	41.136	0.734	1.02	792
1000	4.343	34.981	5.96	4.264	27.743	34.590	41.207	0.826	0.73	990
1250	4.059	34.965	6.11	3.960	27.763	34.622	41.250	0.940	0.56	1237
1500	3.918	34.972	6.13	3.799	27.785	34.649	41.284	1.054	0.56	1483
1750	3.781	34.976	6.12	3.641	27.804	34.675	41.315	1.168	0.63	1729
2000	3.618	34.978	6.10	3.456	27.824	34.702	41.350	1.281	0.58	1975
2500	3.208	34.961	6.09	3.004	27.854	34.750	41.415	1.505	0.59	2466
3000	2.820	34.940	6.15	2.573	27.876	34.790	41.472	1.723	0.58	2956
3500	2.464	34.919	6.19	2.172	27.893	34.824	41.522	1.935	0.51	3445
4000	2.291	34.905	6.17	1.949	27.899	34.840	41.546	2.145	0.33	3932
4500	2.265	34.897	6.16	1.865	27.900	34.844	41.554	2.363	0.21	4419
5000	2.258	34.889	6.15	1.797	27.899	34.846	41.559	2.593	0.24	4904
5235	2.257	34.885	6.07	1.766	27.898	34.846	41.560	2.705	0.15	5132

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	NE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
7	18.050	35.642	5.56	1.1	0.04	0.1	18.049	25.753	38.369	7
100	13.752	35.574	5.25	3.2	0.49	7.3	13.738	26.687	39.525	99
245	11.690	35.455	3.76	8.9	1.14	18.5	11.658	27.008	39.968	243
400	8.531	35.018	3.61	14.6	1.54	24.2	8.488	27.214	40.380	397
595	5.739	35.011	4.94	13.6	1.39	21.1	5.687	27.601	40.960	589
800	4.792	35.000	5.64	12.4	1.29	19.4	4.728	27.707	41.136	792
999	4.416	34.991	5.90	12.0	1.24	18.6	4.336	27.743	41.201	989
1195	4.102	34.970	6.08	11.9	1.22	18.2	4.008	27.762	41.245	1182
1393	3.988	34.970	6.11	12.3	1.24	18.2	3.877	27.775	41.269	1378
1594	3.871	34.972	6.17	12.8	1.22	18.3	3.743	27.791	41.294	1576
1793	3.754	34.976	6.12	13.8	1.21	18.3	3.609	27.807	41.321	1771
2096	3.528	34.975	6.09	15.5	1.21	18.4	3.358	27.831	41.365	2070
2391	3.301	34.966	6.15	17.6	1.25	18.6	3.106	27.848	41.401	2359
2701	3.033	34.952	6.23	19.8	1.26	18.6	2.813	27.864	41.441	2663
2999	2.790	34.938	6.16	21.6	1.25	18.4	2.543	27.877	41.475	2955
3299	2.564	34.924	6.17	22.9	1.25	18.2	2.291	27.887	41.506	3248
3596	2.400	34.912	6.21	26.4	1.28	18.6	2.099	27.893	41.528	3538
3905	2.310	34.904	6.19	28.7	1.29	18.9	1.977	27.897	41.541	3839
4200	2.280	34.901	6.19	29.1	1.29	18.7	1.915	27.899	41.549	4126
4503	2.273	34.897	6.16	30.5	1.31	19.0	1.872	27.899	41.553	4421
4808	2.265	34.892	6.12	33.7	1.32	19.5	1.827	27.899	41.556	4717
5003	2.259	34.888	6.08	34.8	1.36	19.7	1.797	27.898	41.558	4906
5208	2.254	34.899	6.02	35.2	1.39	20.0	1.766	27.909	41.571	5105
5244	2.259	34.885	6.06	37.6	1.41	20.0	1.766	27.898	41.560	5140

OCEANUS 133 STA-292 LAT= 41 0.3N LON= 53 30.4W SONIC DEPTH= -9m
DATE 16/ 5/83

PR	T	S	02	0	SIG-0	SIG-1.5	SIG-3	HGTH	N	NE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1.	17.930.	35.803	5.60	17.930	25.906	32.320	38.525.	0.002	-1.93.	1
25	17.552	35.736	5.76	17.547	25.949.	32.373	38.587	0.053	8.62.	25
50	14.140	35.523	6.03	14.133	26.564.	33.080	39.382	0.095.	4.98	50
75	13.931	35.569	5.57	13.920	26.645	33.167	39.474.	0.130	2.47.	74
100	13.029.	35.388.	5.66	13.015	26.691	33.240	39.574.	0.165.	1.95	99
150	13.036.	35.448.	5.55	13.016	26.738	33.286	39.619	0.233.	2.02	149
200	13.025.	35.573.	4.72	12.998	26.838	33.386	39.718.	0.298	3.14	198
300	9.509	35.104.	3.96	9.475	27.122	33.783	40.223.	0.410	2.91	297
400	8.444.	35.151	3.52	8.402	27.331	34.027	40.500	0.500.	2.52	397
500	6.494.	35.035	4.34	6.448	27.522	34.287	40.826.	0.572.	2.16.	496
600	5.436.	34.986.	4.99	5.385	27.619	34.423	41.000.	0.631.	1.62.	594
800	4.863	35.016	5.62	4.798	27.711	34.537	41.134.	0.731	1.01	792
1000	4.432	34.997.	5.84	4.352	27.747	34.590	41.203.	0.823.	0.73.	990
1250	4.072	34.973.	6.07	3.974	27.768	34.625	41.254	0.936.	0.58	1237
1500	3.918	34.975.	6.09	3.799	27.788	34.652	41.287	1.049.	0.57.	1483
1750	3.737.	34.970	6.13	3.597	27.804	34.676	41.319	1.162.	0.58	1729
2000	3.602	34.975.	6.10	3.440	27.823	34.702	41.350.	1.275.	0.62	1975
2500	3.206	34.960	6.07	3.002	27.853	34.750	41.415	1.498.	0.59	2466.
3000	2.790	34.938	6.14.	2.544	27.877	34.792	41.475.	1.717.	0.58	2956.
3500	2.461.	34.918	6.18.	2.170	27.892	34.823	41.521	1.928	0.50	3444
4000	2.302.	34.905	6.15.	1.960	27.899	34.838	41.545.	2.139	0.33	3932
4500	2.270	34.899.	6.22	1.869	27.901	34.845	41.555.	2.357	0.27	4418
5000	2.244	34.896	6.40.	1.784	27.906	34.853	41.566.	2.585	0.31	4904
5121	2.259	34.897	6.41.	1.783	27.906	34.853	41.567	2.642	0.16	5021

PR	T	S	02	SIL	PHOS	NO3	0	SIG-0	SIG-3	NE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
12	17.961.	35.795	5.55	1.2	0.05	0.0	17.959	25.892	38.510	12
105	12.975	35.374	5.46	3.0	0.48	6.6	12.961	26.691	39.577	104
260	11.317.	35.416	3.97.	9.1.	1.16	18.3	11.284	27.048	40.031	258
405	8.363.	35.157	3.67.	15.1.	1.59	24.5	8.320	27.349	40.523	401
598	5.820	35.020.	4.90	13.9.	1.42	21.2.	5.767	27.598	40.951	593
800	4.733	34.989	5.71.	12.2.	1.29	19.0.	4.669	27.705	41.138	792
1007	4.445.	34.994	5.89	12.1.	1.26	18.6	4.365	27.743	41.199	996
1197	4.151.	34.976	6.06.	12.0.	1.24	18.2.	4.056	27.761	41.241	1184
1392	4.004.	34.974	6.11.	12.5.	1.24.	18.2.	3.893	27.777	41.269	1376.
1597	3.840.	34.971		13.2.	1.24.	18.2	3.713	27.793	41.299	1578.
1797	3.711.	34.976	6.14.	14.3.	1.24	18.2.	3.567	27.812	41.329	1775
1996	3.586.	34.976	6.15.				3.425	27.826	41.354	1971
2198	3.425	34.970	6.15	16.6.	1.25	18.4.	3.247	27.838	41.380	2169
2396	3.259.	34.965	6.14	18.8	1.27	18.6	3.065	27.851	41.408	2364
2698	3.034	34.952	6.12	20.8	1.26	18.5.	2.814	27.864.	41.440	2659
2990	2.830	34.941	6.21	22.0.	1.26	18.5.	2.584	27.876	41.471	2945
3301	2.582	34.925.		24.8	1.28	18.6.	2.309	27.886	41.504.	3250
3574	2.427	34.915	6.21	27.1	1.29	18.6.	2.129	27.893	41.525	3516
3907	2.319	34.906.	6.21	30.2.	1.30	19.0.	1.986	27.898	41.542	3842
4202	2.280	34.900.	6.15	32.0	1.34.	19.1.	1.915	27.898	41.548	4128
4504	2.270	34.898.	6.21	30.0	1.30	18.7.	1.869	27.900	41.554.	4422
4810	2.250	34.896.	6.29	26.8.	1.26	18.0.	1.813	27.903	41.561	4719
5007	2.245	34.897.	6.36	22.6.	1.20	17.1.	1.783	27.906	41.567	4911
5126	2.260.	34.896.	6.40	27.3	1.18	16.9.	1.783	27.905	41.566	5025

OCEANUS 133 STA-293 LAT= 41 29.8N LON= 53 29.9W SONIC DEPTH= 4990m
DATE 16/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	18.099	35.843.	5.37	18.099	25.895	32.304	38.504.	0.006	0.47	3
25	16.451	35.767	5.95	16.447	26.235	32.687	38.927.	0.051	9.56.	25
50	15.699	35.950	5.37	15.691	26.550	33.020	39.277	0.091	3.76	50
75	14.952	35.817	5.25	14.941	26.616	33.107	39.385	0.127	2.54.	74
100	14.034	35.610	5.41	14.019	26.656	33.174	39.478.	0.163.	2.35	99
150	13.411	35.527	5.49	13.390	26.722	33.259.	39.581	0.231	1.68	149
200	13.068	35.535	4.83	13.041	26.800	33.347.	39.679	0.298.	3.09.	198
300	10.892	35.359	3.49	10.855	27.082	33.697	40.092	0.415.	2.72	297
400	8.898	35.157	3.44.	8.854	27.265	33.946	40.404	0.510.	2.41.	396
500	7.057	35.048	4.05.	7.009	27.456	34.201	40.721	0.589.	2.31.	496
600	5.905	35.019	4.72	5.852	27.587	34.373	40.933	0.653.	1.77.	594
800	4.870	35.002	5.55	4.805	27.699	34.525	41.122	0.757.	1.07.	792
1000	4.455.	34.990	5.86	4.375	27.738	34.580	41.194	0.851.	0.76	990
1250	4.129	34.977	6.05	4.030	27.765	34.620	41.246.	0.966.	0.59	1237
1500	3.959	34.976.	6.10	3.839	27.784	34.647	41.280	1.080.	0.53	1483
1750	3.816	34.977	6.10	3.675	27.802	34.671	41.310.	1.195.	0.61	1729
2000	3.663	34.981	6.07	3.500	27.822	34.698	41.344	1.309.	0.62	1975.
2500	3.211.	34.961	6.09	3.007	27.853	34.750	41.414	1.534.	0.56	2466
3000	2.867	34.942	6.13	2.619	27.873	34.785	41.465	1.755.	0.59.	2956
3500	2.483	34.920.	6.18.	2.191	27.892	34.822	41.519.	1.970.	0.55	3444
4000	2.301	34.906	6.19	1.958	27.900	34.839	41.546.	2.180.	0.34	3932
4500	2.270	34.900.	6.20	1.870	27.902	34.845	41.555.	2.398.	0.23	4418
5000	2.272	34.895.	6.27	1.810	27.902	34.849.	41.561.	2.627.	0.24	4904
5063	2.268	34.893.	6.22	1.799	27.902	34.848.	41.561.	2.657.	0.24.	4965

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
7	18.144	35.849	5.53	0.5.	0.09	0.0	18.143	25.888.	38.496	7
102	14.098	35.625.	5.46	2.3.	0.42.	5.9	14.083	26.653.	39.472	101
250	12.319	35.558	4.65	5.4.	0.86.	12.6	12.286	26.968.	39.889	248
400	8.907	35.163	3.52	14.1.	1.62.	24.0	8.863	27.268	40.407	396
603	5.995	35.044.	4.70	13.8.	1.48.	21.8	5.941	27.595.	40.935	597
799	4.941	35.008	5.59	12.5.		19.5	4.875	27.696.	41.114	792
1001	4.442	34.989	5.85	11.8.	1.28	18.5.	4.362	27.739	41.195	991
1199	4.218	34.986	5.96	11.8.	1.27	18.2.	4.122	27.762.	41.237	1186
1398	4.003	34.972	6.22	12.0.	1.25	18.0.	3.892	27.775	41.268	1382
1596	3.895	34.973.	6.20	12.6.	1.26	18.1.	3.767	27.789	41.291	1578
1797	3.782	34.974.	6.13	13.4.	1.24	18.1.	3.637	27.803	41.315	1775
1996	3.654	34.979.	6.14	14.9.	1.24.	18.1.	3.492	27.821	41.344	1971
2303	3.371	34.968.	6.14.	17.0.	1.27	18.2	3.184	27.842	41.389	2272
2607	3.148	34.959	6.16	19.1.	1.31.	18.3.	2.934	27.859.	41.425	2570
2895	2.941	34.945.		20.6.	1.28	18.2.	2.703	27.868.	41.454	2852
3201	2.705	34.935	6.28	22.4	1.28.	18.1.	2.440	27.883	41.490	3152
3504	2.478	34.920	6.24.	25.0.	1.30	18.2.	2.186	27.893	41.520	3448
3805	2.345	34.908.	6.23.	26.5.	1.29	18.3.	2.023	27.896	41.537	3741
4100	2.289	34.904.	6.23.	29.5.	1.35.	18.7.	1.935	27.900	41.548	4029
4405	2.269	34.899.	6.23.	30.5.	1.36.	18.6.	1.880	27.900	41.553	4326
4612	2.272	34.898.	6.23.	28.9.	1.33.	18.3.	1.858	27.901	41.556	4526
4808	2.276	34.900	6.23.	27.8	1.32.	18.2.	1.838	27.904	41.561	4717
5015	2.272.	34.897.		29.8.	1.36.	18.5.	1.808	27.904.	41.563	4918
5072	2.269	34.893	6.22	31.2.	1.41.	18.5.	1.798	27.902.	41.561	4973

OCEANUS 133 STA-294 LAT= 42 0.9N LON= 53 30.0W SONIC DEPTH= 4950m
DATE 16/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1.	17.862.	35.977	4.77	17.862	26.056	32.470	38.674.	0.002	0.34	1
25	17.813.	35.973	5.59	17.808	26.066	32.482	38.688.	0.049	2.92	25
50	16.407.	36.052	5.58	16.399	26.466	32.916	39.155	0.094	6.45	50
75	16.219.	36.081	5.27	16.207	26.533	32.988.	39.231	0.132	2.33	74
100	15.631.	35.966	5.20	15.615	26.580	33.052	39.311	0.170	2.92	99
150	14.115.	35.660	5.21	14.094	26.678	33.194	39.496	0.241	2.16	149
200	13.486.	35.581	5.00	13.457	26.751	33.285	39.605	0.310	2.64	198
300	12.086	35.531	3.57	12.046	26.993	33.570	39.929	0.434	2.88	297
400	9.407	35.224	3.40	9.361	27.235	33.898	40.340	0.536	2.58	396
500	7.592	35.061	3.89	7.542	27.390	34.116	40.618	0.620	2.40	495
600	6.396	35.035	4.51	6.341.	27.536	34.305	40.848	0.690	2.00	594
800	5.035	35.008	5.43	4.969	27.685	34.505	41.096	0.800	1.23	792
1000	4.574	35.001	5.82	4.493	27.734	34.571	41.180	0.896	0.77	990
1250	4.216	34.985	6.04.	4.117	27.762	34.614.	41.237	1.012	0.65	1236
1500	4.011	34.981	6.09.	3.891	27.783	34.644	41.275	1.127	0.56	1483
1750	3.826	34.977	6.13.	3.685	27.801	34.670	41.309	1.242	0.57	1729
2000	3.675	34.977	6.09.	3.512	27.818	34.694	41.339	1.357	0.58	1975
2500	3.283	34.963	6.10.	3.078	27.849	34.742	41.404	1.585	0.59	2466
3000	2.897	34.943	6.14.	2.648	27.871	34.782	41.461	1.809	0.61	2955
3500	2.529	34.921	6.22.	2.236	27.890	34.818	41.513	2.026	0.55	3444
4000	2.315	34.906	6.22.	1.972	27.899	34.838	41.544	2.239	0.36	3932
4500	2.276	34.900	6.23.	1.876	27.901	34.845	41.554	2.457	0.24	4418
5000	2.271	34.894	6.35.	1.809	27.902.	34.848	41.561	2.687	0.25	4903
5027	2.267	34.893	6.30.	1.802.	27.902	34.848	41.561	2.700	0.25	4930

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1.	17.862	35.963.	5.68	1.3	0.05	0.1	17.862	26.045	38.664	1
106	15.733	35.996	5.13	2.3	0.34	5.3	15.716	26.580	39.305	105
253	13.136	35.655	4.00	6.7.	0.94	15.1	13.100	26.881	39.753	251
403	9.639	35.217	3.61	13.3	1.54.	23.1	9.593.	27.191	40.282	399
592	6.488	35.026	4.55	14.6	1.52.	22.4	6.434	27.517	40.822	586
804	5.165	35.032	5.39	13.0.	1.36	19.9	5.098	27.689	41.090	796
1007	4.577	35.002	5.75	12.4.	1.30	19.0	4.496	27.734	41.180	996
1199	4.295	34.991	5.96	12.2.	1.27.	18.5	4.199	27.758	41.227	1186
1404	4.062	34.976	6.10	12.3.	1.26.	18.3.	3.950	27.772	41.260.	1388
1599	3.952	34.981	6.18	13.0.	1.27	18.4.	3.823	27.790.	41.287.	1580
1796	3.802	34.980	6.22	13.8	1.28	18.4.	3.656	27.806	41.316	1775
2003	3.664	34.978	6.16	14.7.	1.28	18.3.	3.501	27.820	41.342	1978.
2299	3.445	34.971	6.12	16.6.	1.30.	18.4.	3.257	27.838	41.379	2268.
2601	3.205.	34.963	6.10	18.7.	1.31	18.5	2.991	27.856	41.419	2564
2905	2.982.	34.951	6.11	20.2.	1.31.	18.4	2.741	27.870	41.452	2862
3204	2.735.	34.936	6.21	22.2.	1.32	18.4.	2.468	27.882	41.486	3155
3508	2.519.	34.923		23.6.	1.30	18.1	2.225	27.892	41.516	3451
3805	2.368.	34.912	6.28	25.3.	1.30.	18.2.	2.045.	27.898	41.537	3741
4110	2.300	34.910.	6.23	26.8.	1.33.	18.4.	1.944.	27.904	41.551	4039
4315	2.279	34.903	6.22	30.0	1.37.	18.8.	1.900	27.902	41.553	4237
4513	2.282	34.902	6.25	26.8.	1.31.	18.1.	1.880	27.903	41.555	4430
4701	2.281	34.901	6.31	26.3.	1.32.	18.0.	1.856	27.904	41.558	4613.
4905	2.284	34.901	6.33.	25.5.	1.30.	17.9.	1.833	27.906	41.562	4811
5033.	2.269.	34.898	6.33	28.3.	1.34	18.2.	1.803	27.906.	41.565	4936

OCEANUS 133 STA-295 LAT= 42 29.4N LON= 53 1.9W. SONIC DEPTH= 4298m
DATE 16/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1.	18.025.	36.049	4.84	18.024	26.071	32.480	38.680	0.002	-1.00.	1
25	18.012.	36.055.	5.55	18.008	26.080	32.490	38.690	0.048.	4.58.	25
50	16.003.	35.909	5.86	15.995	26.449.	32.912	39.162	0.093.	6.03.	50
75	15.433.	35.897	5.40	15.422	26.571	33.048	39.313	0.131	2.91	74
100	14.760.	35.773.	5.36	14.745	26.625	33.122	39.405	0.167.	2.48.	99
150	13.761	35.588	5.25	13.740	26.697	33.224	39.535	0.237	1.84.	149
200	13.467.	35.584.	4.97	13.438	26.757	33.292	39.612	0.306	2.47	198.
300	12.036.	35.514.	3.59	11.996.	26.990.	33.568	39.928	0.430	2.90.	297.
400	9.442.	35.205.	3.45	9.397.	27.214.	33.876	40.318	0.534	2.75	396
500	7.515	35.059.	3.88	7.465.	27.400.	34.129	40.633	0.618	2.36	495.
600	6.127.	35.009.	4.59	6.074.	27.551.	34.329	40.881	0.687	1.93	594
800	5.007.	35.005	5.45	4.940.	27.551.	34.507	41.099	0.797	1.25	792
1000	4.722.	35.025	5.76	4.640.	27.737.	34.569	41.172	0.894.	0.79.	990
1250	4.239.	34.983	6.01	4.139.	27.758.	34.610	41.232	1.011	0.61.	1236
1500	4.010.	34.975	6.12	3.890.	27.778	34.639	41.270	1.126	0.57.	1483
1750	3.813.	34.968	6.18	3.672.	27.795.	34.664	41.304	1.242.	0.59	1729
2000	3.686	34.979	6.10	3.523	27.818	34.693	41.338	1.358.	0.59	1975
2500	3.246	34.949	6.21	3.041	27.841	34.736	41.399	1.588.	0.60	2466
3000	2.896	34.940	6.20	2.647	27.869	34.780	41.459	1.813.	0.60	2955
3500	2.508	34.921	6.36	2.215	27.891	34.820.	41.516	2.030.	0.56	3444
4000	2.329	34.910.	6.34	1.986	27.901	34.839	41.545	2.242.	0.39.	3931
4365	2.229	34.902.	6.32	1.846	27.905	34.850.	41.560	2.400.	0.46	4287

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
18	18.031	36.056	5.45.	0.8	0.03	0.0.	18.028	26.075	38.685.	18
92	14.669	35.803	5.10.	2.7	0.42	6.4	14.655	26.668	39.452.	91
245	13.307	35.671	3.99	6.6	0.90	14.7	13.273	26.858	39.721.	243
396	9.788	35.240	3.59.	12.9	1.43	22.5	9.742	27.184	40.265.	392
594	6.300	34.997	4.46	14.7	1.46.	22.1	6.246	27.519	40.838.	588
792	5.158	35.010	5.25	13.3	1.32	19.9	5.092	27.673	41.074.	784
989	4.783	35.029	5.67	12.6	1.26.	18.9.	4.701	27.733	41.163	979
1191	4.303	34.992	5.95.	12.4.	1.23.	18.5.	4.208	27.758	41.226.	1178
1391	4.116	34.978.	6.00	12.5.	1.22.	18.4.	4.004	27.768.	41.252	1375
1594	3.957.	34.977	6.12.	13.0.	1.22.	18.4	3.829.	27.786.	41.283	1575.
1795	3.785.	34.968	6.10	13.4.	1.21.	18.1	3.640	27.798.	41.309.	1773.
1994	3.705.	34.982	6.13	14.9.	1.23.	18.4	3.543	27.819.	41.338.	1969.
2195	3.538.	34.971	6.12	16.2.	1.24	18.4.	3.359	27.828.	41.361	2166
2394	3.342.	34.954	6.16.	15.7.	1.20.	17.9	3.146.	27.835.	41.385.	2361
2599	3.259.	34.965.	6.06	18.9.	1.25.	18.5.	3.044.	27.853.	41.411.	2563
2799	3.077.	34.952.	6.08	19.7.	1.24.	18.4.	2.845.	27.861.	41.435.	2759
2994	2.899.	34.936	17.7.	17.7.	1.20.	17.4.	2.652.	27.866.	41.455.	2949.
3202	2.780	34.935	6.14	22.0	1.24.	18.2.	2.513.	27.877.	41.478.	3153
3394	2.581.	34.968	16.3	16.3	1.20.	17.8.	2.298.	27.922.	41.539.	3340.
3599	2.461.	34.916	6.31	19.7	1.18.	17.2.	2.159.	27.892.	41.521	3540
3802	2.377.	34.910	6.32	20.0	1.17	17.0.	2.054.	27.895.	41.534	3738.
4000	2.331.	34.909	6.30	22.1.	1.20.	17.4.	1.987	27.900.	41.544	3931
4199	2.281.	34.904	6.30	22.7	1.20.	17.3.	1.916.	27.902.	41.551	4125
4374	2.230.	34.900	6.32	24.1	1.21.	17.3.	1.846.	27.904.	41.559	4295

OCEANUS 133 STA-296
DATE 17/ 5/83

LAT= 42 36.6N LON= 52 55.4W

SONIC DEPTH= 3975m3

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
13	17.9383	36.032	4.43	17.938	26.079	32.491	38.693	0.002	0.67	1
25	17.8453	36.007	5.63	17.841	26.084	32.499	38.703	0.0483	3.65	25
50	16.136	36.001	5.67	16.128	26.4893	32.947	39.193	0.0923	5.59	50
75	15.542	35.958	5.22	15.530	26.5933	33.067	39.328	0.129	3.05	74
100	15.048	35.859	5.22	15.033	26.6283	33.117	39.3923	0.1653	1.853	99
150	13.871	35.606	5.283	13.8493	26.6883	33.211	39.520	0.236	1.893	149
200	13.554	35.589	5.08	13.525	26.742	33.275	39.592	0.3053	2.66	198
300	11.910	35.504	3.57	11.870	27.006	33.588	39.953	0.4293	2.753	297
400	9.528	35.217	3.44	9.483	27.209	33.869	40.307	0.5333	2.54	396
500	7.544	35.063	3.853	7.494	27.398	34.126	40.629	0.618	2.623	495
600	6.224	35.018	4.573	6.2170	27.545	34.320	40.869	0.686	1.882	594
800	5.027	35.000	5.423	4.961	27.680	34.500	41.092	0.7973	1.27	792
1000	4.3629	35.011	5.793	4.548	27.736	34.571	41.178	0.8933	0.78	990
1250	4.196	34.980	6.033	4.096	27.761	34.6143	41.237	1.0103	0.61	1236
1500	4.002	34.975	6.083	3.881	27.779	34.640	41.272	1.125	0.573	1483
1750	3.833	34.971	6.133	3.692	27.795	34.664	41.303	1.2413	0.61	1729
2000	3.695	34.977	6.093	3.532	27.816	34.6913	41.336	1.3573	0.60	1975
2500	3.201	34.947	6.233	2.998	27.843	34.740	41.405	1.5863	0.61	2466
3000	2.776	34.931	6.293	2.530	27.872	34.788	41.472	1.8083	0.693	2955
3500	2.340	34.913	6.353	2.052	27.898	34.8343	41.536	2.015	0.52	3444
4000	2.216	34.904	6.313	1.875	27.9053	34.848	41.5583	2.2193	0.35	3931
4031	2.212	34.903	6.313	1.8683	27.904	34.848	41.5583	2.2323	-0.19	39623

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	17.854	35.972	5.52	0.7	0.04	0.0	17.853	26.054	38.673	5
104	14.786	35.791	5.183	2.5	0.41	6.2	14.770	26.633	39.3412	103
253	13.061	35.632	4.01	6.7	0.933	14.9	13.026	26.878	39.755	251
402	9.4713	35.208	3.54	13.3	1.503	23.0	9.425	27.212	40.313	398
603	6.4043	35.037	4.55	13.8	1.453	21.6	6.349	27.537	40.848	597
807	5.0663	34.998	5.49	12.6	1.35	19.6	4.999	27.674	41.083	799
1001	4.6403	35.009	5.72	12.1	1.273	18.5	4.558	27.733	41.174	991
1201	4.2673	34.982	5.98	11.8	1.24	18.0	4.171	27.7543	41.225	1188
1401	4.070	34.972	6.05	12.1	1.233	17.93	3.958	27.768	41.2563	1385
1600	3.941	34.974	6.09	12.53	1.25	18.13	3.8123	27.785	41.2833	1582
1804	3.819	34.976	6.103	13.33	1.253	18.1	3.673	27.8013	41.310	1782
1999	3.712	34.978	6.19	14.43	1.253	18.13	3.548	27.815	41.333	1974
2207	3.450	34.966	6.123	14.3	1.233	17.8	3.271	27.833	41.373	2178
2402	3.291	34.951	6.233	15.13	1.213	17.63	3.096	27.837	41.391	2370
2601	3.126	34.949	6.213	15.3	1.20	17.43	2.914	27.852	41.421	2564
2805	2.951	34.936	6.343	15.9	1.19	17.23	2.722	27.859	41.444	2764
3006	2.775	34.931	6.343	17.1	1.193	17.23	2.529	27.872	41.472	2961
3202	2.575	34.921	6.343	18.2	1.18	17.13	2.313	27.883	41.500	3152
3408	2.383	34.913	6.453	19.2	1.18	17.0	2.103	27.894	41.5283	3354
3603	2.295	34.906	6.443	20.9	1.203	17.3	1.997	27.897	41.5403	3544
3807	2.249	34.903	6.453	22.1	1.203	17.33	1.929	27.900	41.5483	3743
3911	2.221	34.902	6.353	22.6	1.213	17.43	1.891	27.9023	41.5543	3844
4000	2.215	34.918		21.7	1.20	17.43	1.874	27.916	41.569	3931
4039	2.2143	34.900	6.35	23.03	1.20	17.33	1.8693	27.9023	41.5563	3970

OCEANUS 133 STA-297 LAT= 42 51.0N LON= 52 42.0W SONIC DEPTH= 3490m
DATE 17/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
3	17.716	35.931	5.46	17.716	26.057	32.475	38.683	0.006	0.88.	3
25	17.664	36.015	5.60	17.660	26.135	32.554	38.763	0.049	7.54.	25
50	15.935	35.988	5.52	15.927	26.526	32.989	39.240	0.089	3.90.	50
75	15.410	35.928	5.24	15.398	26.600	33.078	39.343	0.126	2.56.	74
100	14.809	35.801	5.33	14.794	26.636	33.131	39.413	0.162	1.94.	99
150	13.699	35.585	5.28	13.678	26.708	33.236	39.549	0.232	2.35.	149
200	13.374	35.604	4.86	13.346	26.791	33.329	39.651	0.299	2.59.	198.
300	11.538	35.462	3.49	11.499	27.044	33.637	40.013	0.419	2.72	297
400	9.300	35.216	3.45	9.255	27.246	33.913	40.358	0.519	2.56.	396
500	7.020	34.997	4.09	6.972	27.421	34.157	40.689	0.601	2.50.	495
600	6.082	35.014	4.66	6.028	27.561	34.341	40.895	0.668	1.80.	594.
800	4.961	35.007	5.51	4.895	27.693	34.515	41.109	0.776	1.20	792
1000	4.504	34.997	5.85	4.424	27.738	34.579	41.190	0.870	0.76.	990.
1250	4.184	34.982	6.03	4.084	27.763	34.616	41.240	0.986	0.62	1236
1500	3.978	34.977	6.09	3.858	27.783	34.645	41.278	1.100	0.54.	1483
1750	3.836	34.978	6.13	3.694	27.800	34.669	41.308	1.215	0.55.	1729
2000	3.672	34.978	6.11	3.509	27.819	34.695	41.340	1.330	0.61.	1975.
2500	3.240	34.958	6.17	3.036	27.848	34.743	41.407	1.557	0.58.	2466.
3000	2.824	34.936	6.29	2.577	27.872	34.786	41.468	1.778	0.65.	2955.
3500	2.287	34.910	6.41	2.000	27.900	34.838	41.542	1.988	0.74.	3444.
3537	2.272	34.910	6.40	1.981	27.901	34.840	41.545	2.002	0.44	3480.

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
1	17.721	35.937	5.51	1.5	0.04	0.1	17.720	26.060	38.686	1
100	14.862	35.815	5.24	3.1	0.40	6.1	14.847	26.635	39.409	99
253	12.709	35.624	3.67	8.8	1.08	17.4	12.674	26.942	39.840	251
402	9.158	35.204	3.55	14.6	1.53	23.8	9.113	27.260	40.382	399
603	6.065	35.013	4.64	14.7	1.45	21.7	6.012	27.562	40.897	597
802	5.013	35.020	5.47	13.1	1.31	19.4	4.946	27.698	41.110	794
1002	4.511	34.996	5.77	12.7	1.26	18.7	4.431	27.737	41.188	992
1205	4.198	34.983	5.98	12.3	1.24	19.3	4.102	27.762	41.238	1192
1403	4.050	34.977	6.04	12.3	1.23	19.2	3.938	27.775	41.263	1387
1597	3.926	34.977	6.10	12.8	1.24	18.2	3.797	27.789	41.288	1579
1799	3.793	34.875	6.16	13.4	1.23	18.2	3.648	27.723	41.236	1777
2001	3.667	34.877	6.11	14.6	1.25	18.3	3.505	27.739	41.263	1976
2196	3.532	34.866	6.17	15.8	1.25	19.4	3.353	27.745	41.281	2168
2404	3.347	34.967	6.16	17.0	1.26	18.3	3.151	27.845	41.394	2371
2601	3.129	34.950	6.24	15.6	1.21	17.5	2.917	27.853	41.421	2564
2804	2.983	34.943	6.22	16.9	1.22	17.6	2.752	27.862	41.444	2763
2901	2.898	34.939	6.25	17.2	1.21	17.5	2.659	27.867	41.456	2858
3004	2.827	34.935	6.33	17.1	1.20	17.3	2.580	27.871	41.467	2959
3102	2.735	34.932	6.40	16.7	1.18	17.0	2.479	27.877	41.481	3055
3201	2.636	34.926	6.49	16.9	1.18	17.0	2.372	27.882	41.494	3152
3308	2.501	34.920		17.0	1.17	16.8	2.229	27.889	41.513	3256
3408	2.369	34.915		17.9	1.18	16.9	2.089	27.896	41.532	3354
3505	2.284	34.910	6.47	19.0	1.18	16.9	1.996	27.900	41.543	3448
3544	2.273	34.908	6.50	18.7	1.16	16.7	1.982	27.900	41.544	3487

OCEANUS 133 STA-298
DATE 17/ 5/83

LAT= 43 5.0N LON= 52 26.8W

SONIC DEPTH= 2968m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	12.585	33.673	6.50	12.585	25.447	32.026	38.389	0.003	14.09	1
25	15.928	35.867	5.54	15.924	26.434	32.898	39.151.	0.050	7.34	25
50	15.791	35.904	5.14	15.283	26.607	33.088	39.356.	0.087	3.13	50
75	13.968.	35.630	5.43	13.957	26.684	33.204.	39.510.	0.123	2.77.	74
100	13.484.	35.546	5.40	13.470.	26.720	33.255.	39.575.	0.156	1.99.	99
150	13.608.	35.651	4.71	13.587	26.778	33.308	39.623	0.223	2.12.	149
200	13.071.	35.660	4.03	13.043	26.896	33.442.	39.772	0.286	3.09.	198
300	10.654.	35.363	3.43	10.617	27.128	33.750	40.152	0.395.	2.63.	297
400	8.561.	35.149	3.50	8.518	27.312	34.004	40.473	0.486	2.36.	396
500	7.043.	35.081	4.19	6.995	27.484	34.228	40.749	0.561.	2.28	495
600	6.193.	35.095	4.81	6.138	27.610	34.385	40.935	0.622.	1.65.	594
800	5.021.	35.028	5.49	4.955	27.703	34.523	41.114	0.725.	1.08	792
1000	4.561.	35.008	5.82	4.481	27.741	34.579	41.188	0.819.	0.74	990
1250	4.196.	34.987	6.02.	4.097.	27.766	34.619.	41.242.	0.934.	0.62	1236
1500	3.963.	34.976	6.10.	3.844.	27.783	34.646	41.279	1.048.	0.57.	1483
1750	3.799.	34.975.	6.12.	3.658	27.802	34.672	41.312	1.162.	0.59.	1729
2000	3.614.	34.974.	6.12.	3.452	27.821	34.700	41.347.	1.276.	0.61	1975
2500	3.153.	34.951.	6.20.	2.951	27.851.	34.749	41.416.	1.500	0.64	2465
3000	2.644.	34.927.	6.29.	2.401	27.880.	34.802	41.490.	1.717.	0.75.	2955
3007	2.637.	34.927.	6.30.	2.393	27.881.	34.802.	41.491.	1.719.	0.75.	2962

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
10	15.811	35.234	6.11	0.7	0.11	0.0.	15.809	25.972	38.707	10
291	10.820.	35.378	3.55	10.7.	1.33	21.0	10.784	27.110	40.123	288
641	5.939.	35.087	5.13	12.7.	1.37	20.3.	5.882	27.637	40.980.	635
1093	4.348.	34.991	5.98	11.7	1.25	18.3.	4.761	27.751	41.215	1081
1190	4.283.	34.995	6.04	11.7.	1.24	18.3.	4.187	27.762	41.232	1177
1292	4.179	34.990		11.9.	1.25	18.2.	4.076	27.770	41.248	1278
1392	4.051	34.980		11.9	1.25	18.3	3.940	27.777	41.265.	1376
1491	3.968	34.977.	6.10	12.0	1.24.	18.0.	3.849	27.784.	41.279.	1474
1593	3.896.	34.976	6.10	12.4.	1.25.	18.0.	3.769	27.791	41.293.	1574
1690	3.832.	34.974	6.11	12.5.	1.25.	18.1.	3.696	27.797.	41.304.	1670
1796	3.756.	34.972.	6.12	12.8.	1.24.	18.0.	3.612	27.804	41.318.	1774.
1889	3.651.	34.972.	6.08	13.0.	1.23.	18.0.	3.499	27.815.	41.337	1865
2000	3.567.	34.978.		13.9	1.25.	18.2.	3.406	27.829	41.359	1974
2093	3.460.	34.961.	6.14	13.7.	1.24.	17.8.	3.292	27.827	41.365	2066
2191	3.420.	34.965.	6.11	14.7.	1.24.	17.9.	3.243	27.834.	41.377	2162.
2292	3.365.	34.966	6.20	15.7.	1.25.	18.2.	3.179	27.841	41.389.	2261
2393	3.240.	34.954.	6.25	15.0.	1.22.	17.8	3.047	27.844.	41.402.	2360
2493	3.161.	34.953.		16.0	1.23.	17.9.	2.959	27.851	41.416	2459
2593	3.074.	34.952		16.9	1.22.	17.9.	2.863	27.859.	41.432.	2556
2696	2.940	34.946	6.22	16.4.	1.22	17.6.	2.721	27.867.	41.451	2657.
2792	2.901	34.938.	6.35	15.5.	1.18.	17.2.	2.674	27.865.	41.453	2752
2890	2.787.	34.935		15.5.	1.18.	17.1.	2.552	27.874.	41.471	2847
2942	2.719.	34.932	6.40	15.6	1.18.	17.0.	2.480	27.877.	41.481	2898
3009	2.639.	34.929	6.37.	15.8.	1.16.	16.8.	2.395	27.882.	41.493	2964

OCEANUS 133 STA-299 LAT= 43 12.6N LON= 52 19.1W SONIC DEPTH= 2428m
DATE 17/ 5/83

PR	T	S	O2	σ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cpH	m
3	10.839	32.954	5.47	10.839	25.211	31.852	38.272	0.008	14.33	3
25	12.804	34.756	6.48	12.801	26.244	32.806	39.152	0.057	10.77	25
50	13.198	35.454	5.61	13.192	26.706	33.250	39.578	0.094	2.96	50
75	13.168	35.469	5.62	13.158	26.725	33.270	39.599	0.127	1.79	74
100	13.274	35.533	5.46	13.260	26.754	33.295	39.620	0.160	1.57	99
150	13.001	35.530	5.15	12.980	26.808	33.357	39.690	0.225	3.20	149
200	11.818	35.472	3.64	11.792	26.996	33.581	39.948	0.285	3.11	198
300	9.078	35.157	3.60	9.045	27.234	33.908	40.361	0.383	2.28	297
400	7.548	35.046	3.94	7.509	27.383	34.110	40.614	0.466	2.41	396
500	6.721	34.998	4.48	6.176	27.528	34.303	40.852	0.535	2.09	495
600	5.496	35.007	5.06	5.445	27.628	34.430	41.004	0.592	1.37	594
800	4.558	34.958	5.78	4.495	27.699	34.537	41.146	0.692	0.97	792
1000	4.215	34.951	6.05	4.137	27.733	34.585	41.207	0.785	0.69	990
1250	4.188	34.981	6.03	4.089	27.762	34.615	41.239	0.900	0.57	1236
1500	3.984	34.974	6.10	3.864	27.780	34.642	41.275	1.015	0.54	1483
1750	3.711	34.952	6.23	3.571	27.792	34.666	41.309	1.131	0.56	1729
2000	3.553	34.955	6.21	3.393	27.812	34.693	41.343	1.246	0.65	1975
2455	3.230	34.946	6.19	3.031	27.840	34.735	41.399	1.452	0.52	2421

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
10	13.227	33.253	6.67	0.7	0.17	0.4	13.226	24.995	37.909	10
99	13.295	35.543	5.36	3.6	0.50	7.9	13.281	26.757	39.622	98
248	10.368	35.341	3.55	11.1	1.32	21.3	10.338	27.160	40.202	246
395	7.358	35.005	4.02	14.3	1.49	23.3	7.320	27.378	40.622	391
598	5.453	35.007	4.98	13.4	1.37	21.2	5.402	27.633	41.012	593
795	4.551	34.956	5.71	12.0	1.26	19.3	4.488	27.699	41.146	787
895	4.440	34.963	5.92	11.8	1.25	19.1	4.370	27.717	41.174	886
991	4.279	34.963	6.13	11.6	1.22	18.9	4.201	27.736	41.205	981
1092	4.365	34.993	5.93	11.9	1.23	19.1	4.278	27.751	41.214	1080
1191	4.216	34.979	5.97	12.0	1.23	19.2	4.121	27.757	41.232	1178
1294	4.126	34.975	6.06	12.0	1.22	19.1	3.951	27.772	41.260	1382
1398	4.063	34.976	6.10	11.9	1.22	19.1	4.023	27.764	41.246	1279
1493	3.992	34.974	6.06	12.5	1.22	19.2	3.873	27.779	41.273	1475
1597	3.874	34.966	6.11	12.2	1.21	19.0	3.746	27.786	41.289	1578
1695	3.749	34.957	6.21	12.2	1.20	18.9	3.614	27.792	41.306	1674
1793	3.684	34.953	6.21	12.5	1.20	19.0	3.541	27.796	41.316	1771
1896	3.628	34.955	6.20	12.9	1.20	19.1	3.476	27.804	41.329	1873
1993	3.554	34.953	6.24	13.3	1.20	19.2	3.394	27.810	41.341	1968
2093	3.473	34.956	6.19	13.9	1.20	19.1	3.304	27.821	41.359	2066
2194	3.373	34.951	6.19	14.4	1.20	19.2	3.197	27.828	41.374	2165
2302	3.267	34.949	6.23	15.0	1.20	19.2	3.082	27.837	41.392	2271
2341	3.231	34.947	6.25	15.1	1.19	19.2	3.043	27.839	41.397	2309
2398	3.231	34.950	6.24	15.1	1.19	19.2	3.037	27.842	41.401	2365
2458	3.231	34.947	6.23	15.1	1.19	19.2	3.031	27.840	41.399	2424

OCEANUS 133 STA-300
DATE 17/ 5/83

LAT= 43 18.1N LON= 52 15.2W

SONIC DEPTH= 1956m

PR dbar	T Deg C	S o/oo	O2 ml/l	θ Deg C	SIG-θ kg/m3	SIG-1.5 kg/m3	SIG-3 kg/m3	HGTH m	N cdh	DF m
3	11.1341	33.089	6.87	11.134	25.264	31.894	38.304	0.008	10.84	3
25	5.8671	33.197	8.15	5.865	26.145	32.9521	39.532	0.058	9.45	25
50	7.048	33.842	6.831	7.043	26.501	33.2581	39.790	0.100	5.55	50
75	9.1431	34.490	6.08	9.135	26.697	33.376	39.8331	0.135	4.00	74
100	9.3491	34.650	5.861	9.338	26.790	33.460	39.9091	0.168	3.40	99
150	10.484	35.189	4.44	10.466	27.019	33.647	40.056	0.227	3.15	149
200	9.495	35.093	3.97	9.472	27.1141	33.7751	40.215	0.278	2.20	198
300	6.2961	34.638	4.94	6.270	27.232	34.008	40.558	0.3711	2.36	297
400	5.9081	34.809	4.62	5.874	27.418	34.206	40.768	0.450	2.331	396
500	5.7091	34.947	4.75	5.666	27.553	34.348	40.915	0.5151	1.921	495
600	5.1581	34.9681	5.27	5.109	27.638	34.452	41.0391	0.570	1.301	594
800	4.5271	34.9551	5.81	4.4641	27.700	34.539	41.150	0.6691	0.901	792
1000	4.4461	34.9931	5.87	4.3661	27.741	34.584	41.197	0.7631	0.711	990
1250	4.1501	34.9821	6.04	4.050	27.766	34.6211	41.246	0.8771	0.58	1236
1500	3.9631	34.9751	6.10	3.843	27.782	34.645	41.2781	0.9911	0.57	1483
1750	3.7401	34.961	6.17	3.600	27.797	34.669	41.3121	1.106	0.57	1729
1973	3.550	34.956	6.14	3.391	27.813	34.694	41.344	1.2081	0.67	1948

PR dbar	T Deg C	S o/oo	O2 ml/l	SIL umol/kg	PHOS umol/kg	NO3 umol/kg	θ Deg C	SIG-θ kg/m3	SIG-3 kg/m3	DF m
11	8.271	33.179	6.94	0.6	0.20	0.01	8.270	25.804	39.025	11
98	9.183	34.612	5.86	3.71	0.62	7.5	9.173	26.787	39.917	97
202	9.384	35.1461	4.01	10.6	1.24	18.91	9.362	27.174	40.281	200
300	6.288	34.638	4.90	10.91	1.22	17.21	6.261	27.2331	40.559	298
391	6.042	34.610	4.94	11.41	1.20	17.01	6.008	27.244	40.588	388
494	5.786	34.955	4.70	14.51	1.431	21.21	5.7431	27.550	40.906	489
598	5.163	34.969	5.27	13.51	1.341	19.81	5.113	27.638	41.039	593
692	4.840	34.965	5.50	13.11		19.21	4.784	27.673	41.098	685
800	4.542	34.9571	5.77	12.31	1.27	18.6	4.479	27.701	41.149	792
890	4.466	34.9721	5.86	12.11	1.26	18.6	4.396	27.722	41.176	881
993	4.458	34.999	5.84	12.51	1.25	18.51	4.379	27.745	41.200	983
1095	4.214	34.976	6.02	12.11	1.22	18.11	4.127	27.754	41.228	1083
1192	4.171	34.9861	6.09	12.51		18.11	4.076	27.767	41.245	1179
1298	4.111	34.982	6.09	12.31	1.24	18.11	4.007	27.771	41.255	1283
1394	4.043	34.980	6.06	12.11	1.23	18.2	3.932	27.778	41.267	1379
1498	3.953	34.977	6.10	12.31	1.22	18.1	3.834	27.785	41.2821	1480
1589	3.841	34.9721	6.13	12.31	1.22	17.9	3.7151	27.793	41.299	1570
1694	3.7941	34.967	6.17	12.61	1.22	17.91	3.658	27.795	41.306	1673
1796	3.719	34.968		12.81	1.22	17.8	3.575	27.804	41.321	1774
1898	3.609	34.964	6.19	13.31	1.21	17.7	3.457	27.813	41.339	1875
1978	3.534	34.9611	6.18	14.41	1.22	17.81	3.376	27.818	41.3511	1953

OCEANUS 133 STA-301
DATE 17/ 5/83

LAT= 43 25.9N LON= 52 11.7W

SONIC DEPTH= 1465m

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
3	11.345.	32.950	6.69	11.345.	25.118	31.743.	38.148.	0.009.	9.45.	3
25	8.821.	33.507	7.42	8.819.	25.978.	32.677	39.155.	0.064	11.89.	25
50	9.398.	34.416	6.42	9.393.	26.598.	33.269.	39.718.	0.104.	5.80.	50
75	10.174.	34.791	5.97	10.165	26.760	33.403.	39.824	0.138.	2.66.	74
100	10.064.	34.838	5.56	10.053	26.817.	33.462	39.887	0.170	3.52	99
150	8.694	34.861.	4.69	8.678.	27.061.	33.750.	40.218	0.226.	3.56.	149
200	7.280	34.774.	4.58	7.260.	27.205.	33.944.	40.458	0.274	2.57	198
300	5.741	34.714	4.62	5.716	27.363	34.158.	40.726	0.355	2.17	297
400	5.702	34.858.	4.74	5.668.	27.482.	34.278.	40.846	0.425.	1.94	396
500	5.042	34.871.	5.15	5.002.	27.573	34.392	40.984.	0.485.	1.65	495
600	4.936	34.951.	5.43	4.888.	27.650.	34.473.	41.068.	0.539.	1.31	594
800	4.689	35.006.	5.71.	4.624	27.723.	34.556	41.160.	0.634.	0.86	792
1000	4.250	34.967	6.01.	4.172	27.742	34.592.	41.213.	0.725.	0.63	990
1250	3.911	34.939	6.23.	3.814.	27.757	34.622.	41.256.	0.839.	0.54	1236
1473	3.805	34.936	6.19	3.690.	27.768	34.637.	41.276	0.941.	0.41	1456

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DF
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	11.319.	32.964	6.69	0.0.	0.73	0.0.	11.319	25.134.	38.165	5
101	10.050.	34.833	5.48	3.1.	0.70	8.9.	10.038	26.815.	39.886	100
203	7.631.	34.823	4.43	9.6.	1.27	18.6	7.611	27.193.	40.421	201
301	5.526.	34.673	4.80	12.0	1.35	19.3	5.501	27.357.	40.736	298
401	5.631	34.861	4.65.	13.6	1.42	20.9	5.597	27.494.	40.862	397
501	5.011	34.874.	5.13.	12.8.	1.36	19.9	4.971	27.579.	40.993	496
600	4.903	34.950	5.39.	12.6.	1.33	19.4	4.855	27.653.	41.073	594
700	4.619	34.961	5.68	11.7	1.27	18.7	4.564	27.694.	41.136.	693
798	4.710	35.008.	5.66.	11.7	1.27	18.8	4.646	27.722.	41.157.	790
899	4.498	34.993.	5.83.	11.4	1.25	18.4.	4.427	27.735.	41.186.	890
1003	4.224	34.969	5.98	11.3.	1.22	18.1.	4.145.	27.746.	41.219.	993
1100	4.012	34.947.		11.0	1.19	17.7	3.927.	27.752.	41.242.	1088
1201	3.910	34.934.	6.20.	10.8.	1.18	17.5.	3.817.	27.753.	41.252.	1188
1284	3.894.	34.943.	6.18.	11.4.	1.19.	17.5.	3.794	27.762.	41.263.	1270
1395	3.819.	34.940.	6.20.	11.8.	1.20	17.7	3.710	27.768	41.275.	1379
1443	3.806.	34.938.	6.20.	11.8.	1.20.	17.7	3.693.	27.769.	41.277	1426
1479	3.805.	34.940.	6.19.	11.9.	1.19.	17.3.	3.689.	27.771	41.279.	1462.

OCEANUS 133 STA-302 LAT= 43 31.6N LON= 52 9.2W. SONIC DEPTH= 960m
DATE 17/ 5/83.

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	9.960.	32.678	7.06	9.959	25.147	31.818	38.268	0.003	3.92	1
25	7.073	33.104	7.75	7.071	25.916	32.681	39.220.	0.065	12.17	25
50	7.659	33.918	6.86	7.654	26.475	33.210	39.720.	0.109	7.11	50
75	9.302	34.580	5.92.	9.294	26.742	33.414	39.865	0.145	4.48	74
100	9.299	34.757	5.24.	9.288	26.881	33.552	40.001	0.176	4.33	99
150	8.143	34.763.	4.73	8.128	27.069	33.778	40.264	0.230	3.34	149
200	7.417	34.815	4.45	7.398	27.217	33.951.	40.460	0.277	2.53	198.
300	6.458	34.815	4.45	6.431	27.351	34.119	40.661	0.359	2.22	297.
400	5.220	34.851	5.05	5.188	27.535	34.348	40.933	0.426.	2.28	396.
500	4.780.	34.917.	5.40	4.741	27.639	34.458	41.069.	0.481.	1.48	495.
600	4.565.	34.938.	5.69	4.518	27.681	34.518	41.127	0.530.	1.00	594.
800	4.074	34.905	6.12	4.014	27.709	34.566	41.194.	0.622.	0.70	792
961	3.971	34.918.	6.14.	3.898	27.732	34.593	41.225.	0.696	0.66	951

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
5	10.281	32.681	6.89	0.2	0.22	0.0	10.280	25.095	38.196.	5
102	9.357	34.731.	5.23	5.7	0.82	10.8.	9.346	26.852.	39.969.	101
203	7.581	34.854	4.36	10.9.	1.30	18.7.	7.561	27.224	40.456	201
299	6.439	34.818.	4.41	12.8.	1.44	20.6.	6.413	27.355	40.667.	296
397	5.242	34.852.	5.23	13.6.	1.38.	20.1.	5.210	27.533	40.930	393
499	4.765	34.913	5.44	12.5.	1.32	19.2.	4.726	27.638	41.069	494
601	4.554	34.939	5.69	11.9.	1.27	18.6.	4.507	27.683	41.130	595
705	4.130	34.906	6.00	11.4	1.23	17.8.	4.077	27.703	41.183	698
799	4.051	34.910.	6.08	11.3.	1.21	17.7.	3.990	27.716	41.202	791
902	3.999	34.915.	6.13	11.4.	1.21	17.7.	3.931	27.726	41.217	893
943	3.979	34.919	6.14	11.3	1.19	17.7	3.908	27.731.	41.224	933
967	3.966	34.921.	6.15	11.6.	1.20	17.6	3.892	27.735	41.228	957

OCEANUS 133 STA-303 LAT= 43 35.5N LON= 52 4.8W SONIC DEPTH= 440m
DATE 17/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DE
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cdh	m
1	9.958	32.717	6.89	9.958	25.177	31.848	38.297	0.003	3.77	1
25	7.258	33.168	7.73	7.256	25.941	32.699	39.231	0.065	12.54	25
50	8.832	34.118	6.66	8.827	26.455	33.148	39.618	0.109	6.24	50
75	10.403	34.727	6.01	10.394	26.671	33.307	39.723	0.145	4.26	74
100	9.663	34.707	5.86	9.652	26.782	33.441	39.880	0.178	4.41	99
150	7.696	34.690	4.97	7.681	27.078	33.803	40.305	0.235	3.31	149
200	6.407	34.593	5.03	6.390	27.181	33.953	40.499	0.282	2.56	198
300	6.075	34.793	4.59	6.048	27.383	34.165	40.721	0.364	2.44	297
400	5.223	34.864	5.01	5.190	27.545	34.358	40.943	0.429	2.21	396
435	4.996	34.865	5.21	4.961	27.573	34.395	40.988	0.449	1.56	431

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
4	10.105	32.736	7.14	0.3	0.22	0.0	10.104	25.167	38.279	4
102	10.096	34.810	5.57	4.1	0.69	9.1	10.084	26.790	39.858	102
205	6.246	34.551	5.07	9.5	1.16	16.2	6.228	27.169	40.499	203
298	6.115	34.810	4.54	13.4	1.41	20.7	6.088	27.391	40.726	296
405	5.208	34.866	5.02	13.7	1.43	20.3	5.175	27.549	40.947	401
442	4.980	34.861	5.21	13.1	1.36	19.7	4.945	27.572	40.988	437

OCEANUS 133 STA-304 LAT= 43 37.3N LON= 52 2.5W SONIC DEPTH= 195m
 DATE 17/ 5/83

PR	T	S	O2	θ	SIG-θ	SIG-1.5	SIG-3	HGTH	N	DF
dbar	Deg C	o/oo	ml/l	Deg C	kg/m3	kg/m3	kg/m3	m	cph	m
1	10.414	32.270	6.82	10.414	24.752	31.413	37.853	0.003	6.83	1
25	8.285	33.071	7.51	8.282	25.718	32.441	38.940	0.072	13.22	25
50	8.198	33.935	6.82	8.193	26.409	33.125	39.618	0.117	6.28	50
75	10.195	34.678	5.94	10.186	26.669	33.311	39.734	0.154	4.66	74
100	9.700	34.740	5.63	9.689	26.802	33.459	39.896	0.187	4.13	99
150	8.706	34.918	4.42	8.690	27.104	33.793	40.259	0.243	3.86	149
189	7.022	34.810	4.50	7.004	27.269	34.017	40.539	0.278	4.29	187

PR	T	S	O2	SIL	PHOS	NO3	θ	SIG-θ	SIG-3	DE
dbar	Deg C	o/oo	ml/l	umol/kg	umol/kg	umol/kg	Deg C	kg/m3	kg/m3	m
6	10.390	32.398	6.83	0.4	0.19	0.0	10.389	24.856	37.956	6
101	9.397	34.681	5.64	4.0	0.68	8.6	9.386	26.806	39.921	100
150	8.734	34.926	4.44	9.7	1.19	17.4	8.718	27.105	40.258	148
193	7.023	34.813	4.42	12.6	1.35	19.4	7.005	27.271	40.541	191

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