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WOODS HOLE OCEANOGRAPHIC INSTITUTION

REFERENCE NO. 71-13

HYDROGRAPHIC STATION DATA FROM ATLANTIS II CRUISE 56
TO THE SOUTHEASTERN APPROACHES TO THE CARIBBEAN SEA,
FEBRUARY - APRIL 1970.

William G. Metcalf,
Marvel C. Stalcup and
Marguerite E. Zemanovic

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WOODS HOLE, MASSACHUSETTS

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FEBRUARY 1971

TECHNICAL REPORT

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GA 15730.*

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Approved for Distribution

T. F. Webster

T. F. Webster, Chairman

Department of Physical Oceanography

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ABSTRACT

Hydrographic station data from 160 stations occupied during ATLANTIS II Cruise 56 are presented in tabularized form. The tables include the actual observations of temperature, salinity, oxygen and silicate along with various computed parameters such as potential temperature, density and various dynamic calculations. Nearly 90 of these stations, occupied during February 1970, were in two long hydrographic sections extending parallel to the chain of islands of the Lesser Antilles from Guadaloupe to the South American shelf. Vertical profiles of temperature, salinity, oxygen and silicate from these sections are included.

INTRODUCTION

Cruise 56 of the Research Vessel ATLANTIS II to the southeastern approaches to the Caribbean Sea was carried out during February, March and April 1970 under the sponsorship of the National Science Foundation*. The field work was designed to obtain oceanographic data for a study of the water exchange between the Atlantic Ocean and the Caribbean Sea through the passages between the islands of the Lesser Antilles from Guadaloupe on the north to the South American continental shelf.

The work was divided into two major parts. During the first "leg" of the cruise, the primary emphasis was on hydrographic station observations. A long section of stations was laid out on either side of the Antillean Arc. As much as possible, the sections were in 1400 to 1500 meters of water to insure the observations were carried out to well below the sill depth of any of the nearby passages but were still in shallow enough water to make it possible to sample the column at close depth intervals without taking excessive amounts of time. The stations were spaced 10 to 15 miles apart abreast the islands and 5 miles apart abreast the major passages between the islands.

On the second and third "legs" of the operation, the primary emphasis was on direct measurements of currents using moored current meters, shipboard lowered

*National Science Foundation support in the form of Grant #GA 15730 is gratefully acknowledged.

current meters, free-fall current measuring devices and drift bottles. During this phase of the work, supplemental hydrographic stations accompanied the current observations. The locations of the hydrographic stations from the first leg are shown in Figure 1. The locations of those stations occupied in conjunction with the current measurements are shown in Figure 2.

In this report, the tabularized station data from all the hydrographic stations are presented. Vertical profiles of temperature, salinity, oxygen and silicate are given for the long north-south sections and an additional short section across the Grenada-Trinidad Channel.

Profiles from the stations from the second and third "legs" of the cruise are not included. For the most part, these stations lay in short shallow sections laid out specifically to supplement the current observations. Profiles of these sections will be included in a separate report dealing with that phase of the work.

PROFILES

Vertical profiles of temperature, salinity, dissolved oxygen and dissolved silicate are presented for the stations shown in Figure 1. They include the two long profiles, one inside and the other just outside the island chain, and a short profile across the Grenada-Trinidad Channel lying midway between the other two sections. It will be noted that the station sequence in the profiles is interrupted on several occasions when special stations not in the regular sections were occupied for other groups participating in the cruise work. The data from these special stations are included in the tables.

In the profiles, the observation points are represented by small solid dots. The bottom is represented only by straight lines connecting the corrected sonic depths of adjoining stations. No attempt has been made to represent the bathymetry between stations. On a few occasions, the stations were placed in

water slightly deeper than 2000 meters, but for the sake of convenience, the profiles do not extend below 2000 m.

HYDROGRAPHIC STATION DATA

The tabularized hydrographic station data are presented in the format of the computer print-out provided by the WHOI Information Processing Center. The station headings are all self-explanatory. Station depths are echo sounding depths corrected for the speed of sound in sea water according to Matthews' (1939) tables. In several instances, the bottom Nansen bottles tripped on the ocean floor, and the depth is that obtained from the paired protected and unprotected deepsea reversing thermometers. The water samples were collected in teflon lined Nansen bottles, and the temperatures were measured by reversing thermometers from various manufacturers.

Observation depths were arrived at by the usual method of using paired protected and unprotected thermometers in alternate Nansen bottles below about 100 m. and interpolating between those depths. An asterisk in the depth column indicates that the adopted depth agrees with the thermometrically determined depth within ± 5 m. in the first thousand meters and within 0.5% at greater depths. Where two casts were made, a line separates the casts in the listings.

The computer program also includes a column showing pressure in decibars as well as depth in meters. It is interesting to note that the adopted depth is calculated in the first place by considering the effect of pressure on an unprotected thermometer along with the average density of the water column above as determined from earlier measurements in the general region. Thereupon the computer calculates the pressure by taking into account the adopted depth plus density information taken from the observed temperature and salinity of the column above. It is unlikely that this system makes any significant difference over-all, but it does seem like a round-about way of approaching the matter.

In general, the temperature was measured to a hundredth of a degree, C. The measurements are considered accurate to $\pm 0.02^{\circ}$, and this is considered a conservative estimate. In the deeper water, thermometers with expanded scales were used, and temperatures are frequently listed to the nearest 0.005° and considered to be accurate to $\pm 0.01^{\circ}$ or better.

Salinity samples were analysed aboard ship within a few days of being collected using a WHOI conductivity bridge. They are listed to three decimal places and are considered accurate to $\pm 0.003^{\circ}/\text{oo}$. Values of questionable accuracy are marked "Q".

Dissolved oxygen was measured within a few hours of the samples being taken using the Winkler titration with an amperometric endpoint. Values are recorded to 0.01 ml/l, and the accuracy is considered to be about $\pm 3\%$.

Dissolved silicates were determined within 12 hours of the samples being taken using a Beckman DU Spectrophotometer and the method described by Grasshoff (1964). The silicate values were recorded originally to 0.01 microgram-atoms per liter and are on file at WHOI in this form, though no claim for this degree of accuracy is made. In keeping with the NODC format, silicate values are listed herein to the nearest 1 microgram-atom per liter, but it is felt that this does not take full advantage of the accuracy attained in the original measurements, at least at the low end of the scale.

Because of the way in which the computer program has been written, both sigma-t and potential temperature are given to three decimal places. In considering these values, it should be kept in mind that the original temperature data used in the computations were usually given only to two decimal places and occasionally, as mentioned above, to the nearest 0.005° .

The columns listing specific volume anomaly ("delta"), dynamic height, sound velocity, potential energy, Vaisala frequency and Vaisala period are all products of the WHOI hydrographic station computer program and are included here as being of possible use and interest to some users of the data in this

report.

Bathythermograph observations using electronic, expendable bathythermographs were made at irregular intervals, frequently at hydrographic stations where the temperature-depth curve was used to identify features in the thermocline so that Nansen bottles could be placed to bring out those features. No attempt has been made to reproduce the bathythermograms in this report. Photographic reproductions are on file at WHOI and at the National Oceanographic Data Center. The bathythermograph data are also on file in digital form at NODC.

REFERENCE

GRASSHOFF, K.

1964 On the determination of silica in sea water. Deep-Sea Res., 11,
597 - 604.

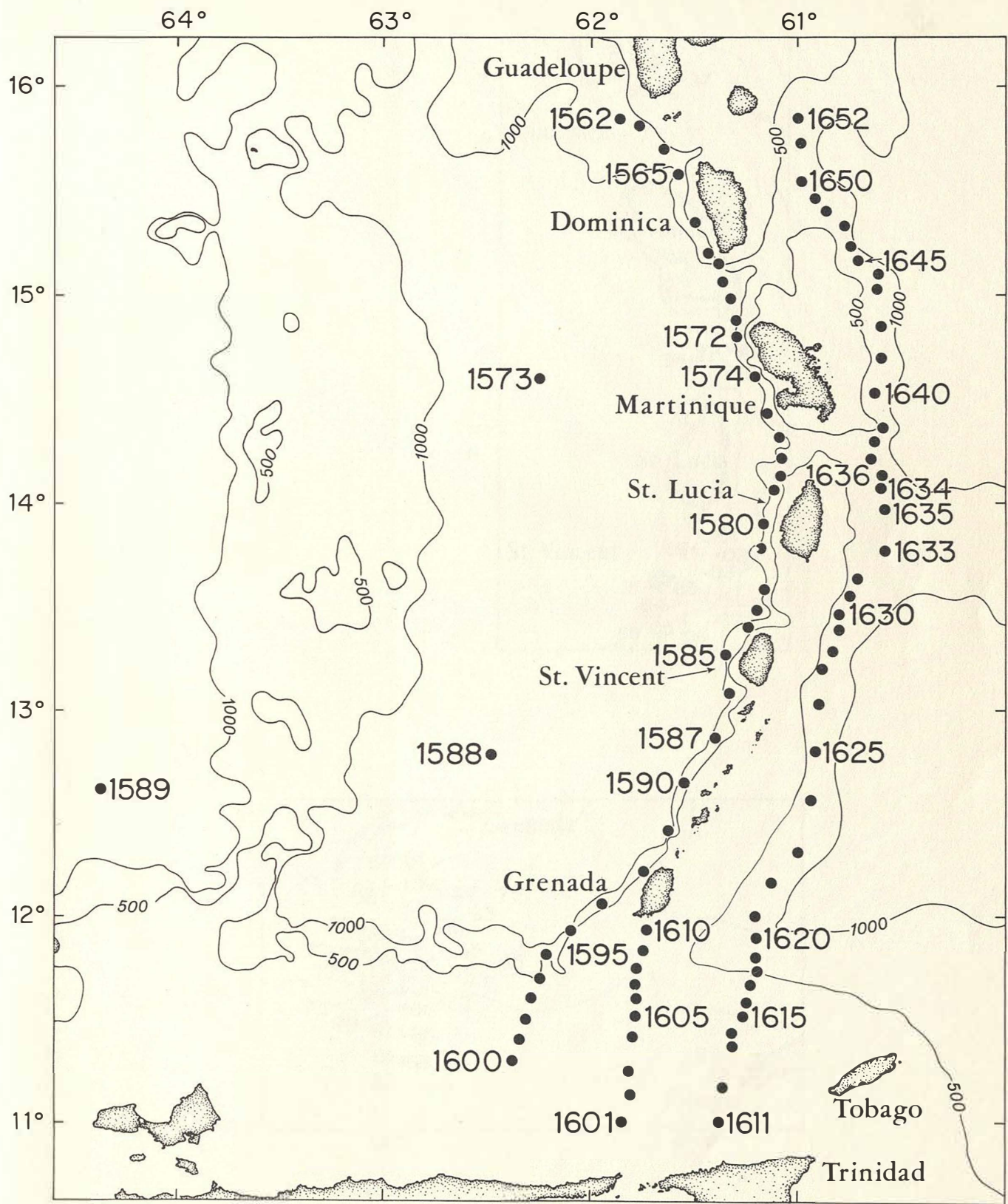


Figure 1. Hydrographic station positions from first leg of ATLANTIS II Cruise #56, February - April 1970. Profiles of these sections are presented in this report.

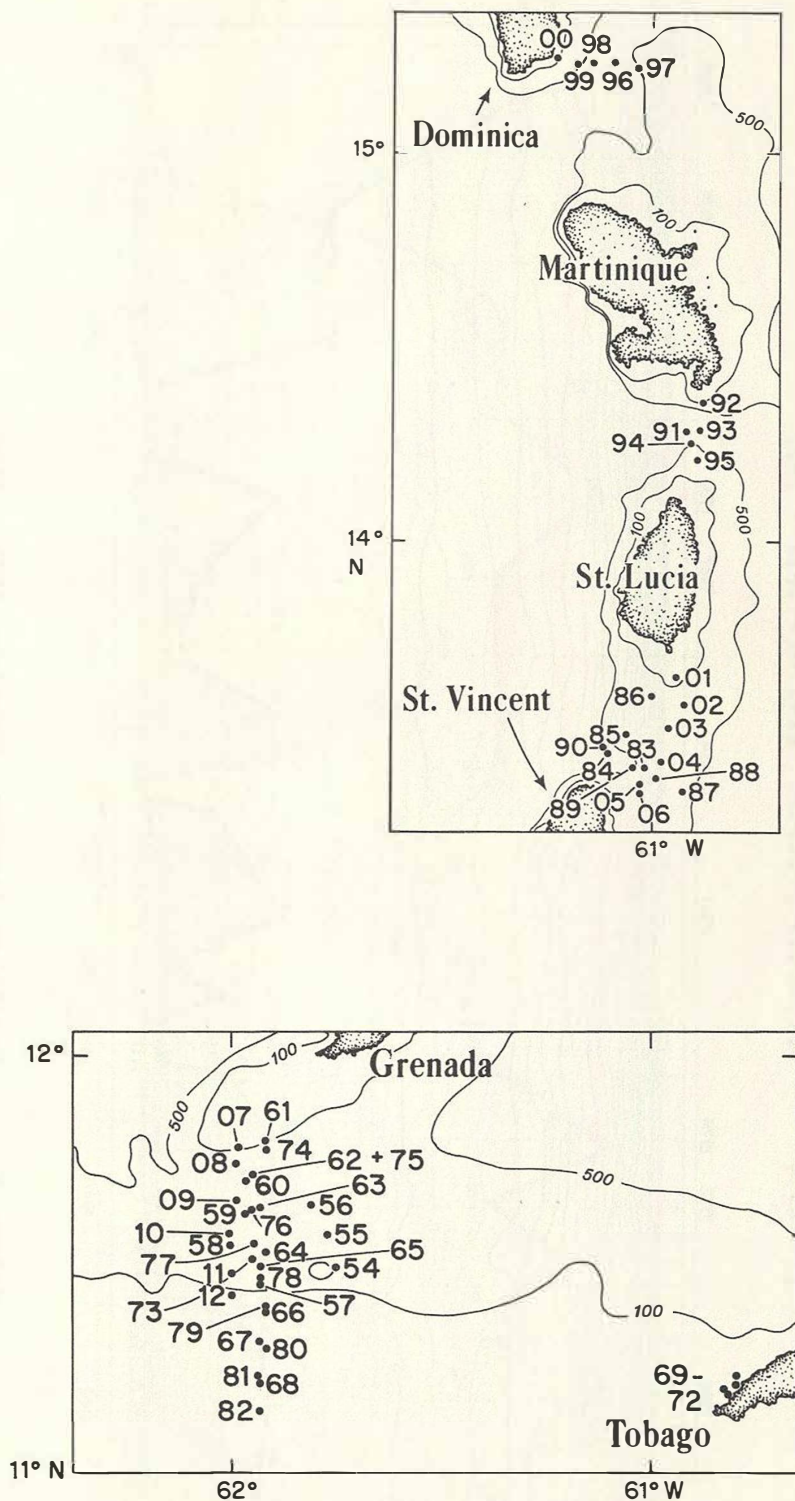


Figure 2. Hydrographic station positions from second and third legs of ATLANTIS II Cruise #56. Station numbers run from #1653 to #1712. First two digits of station numbers are omitted.

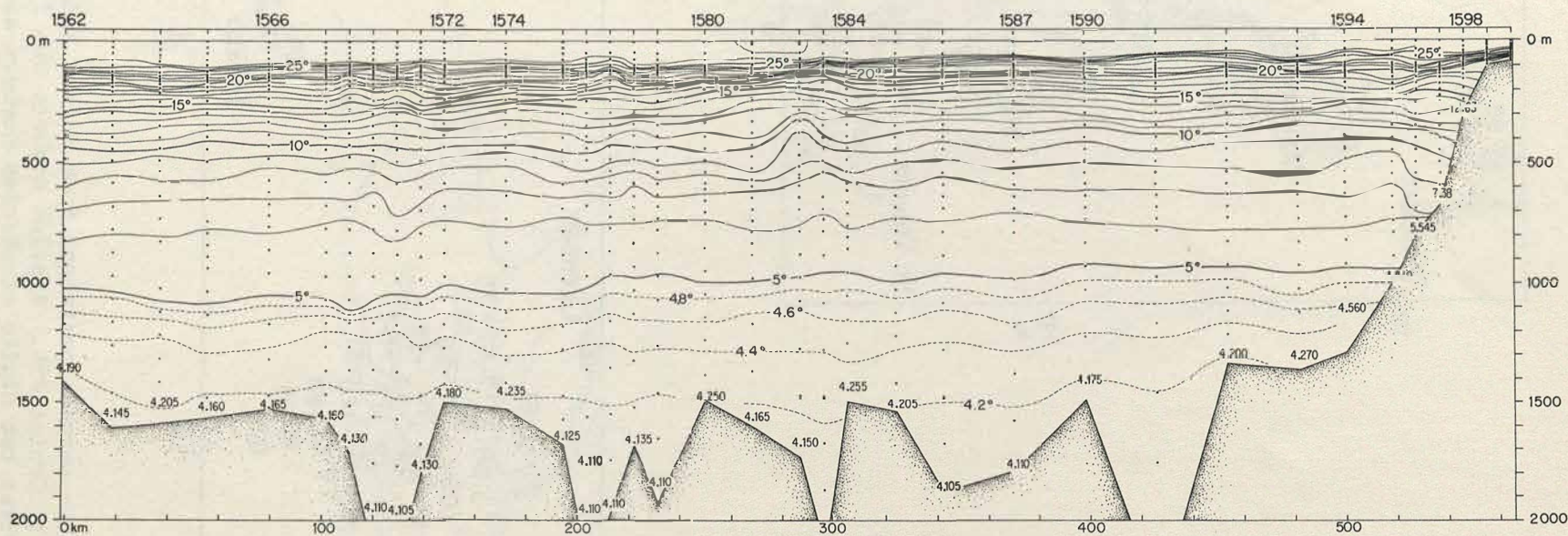


Figure 3. Caribbean Section: Stations 1562 - 1600
Temperature, Celsius

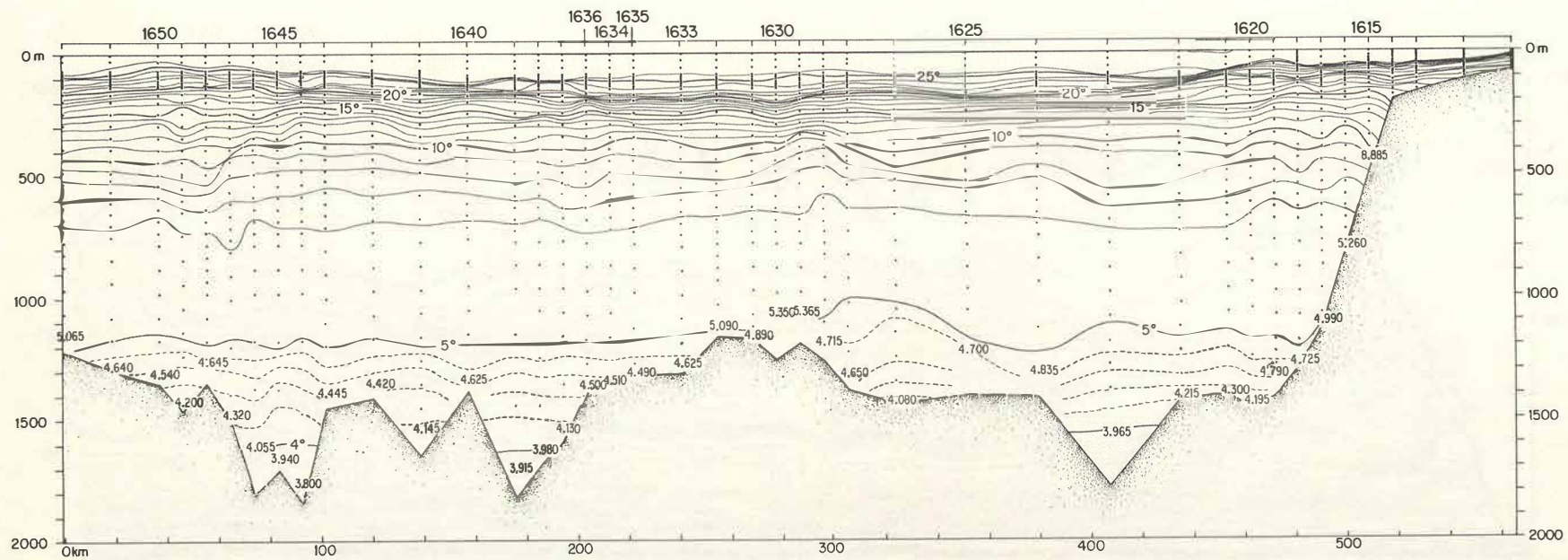
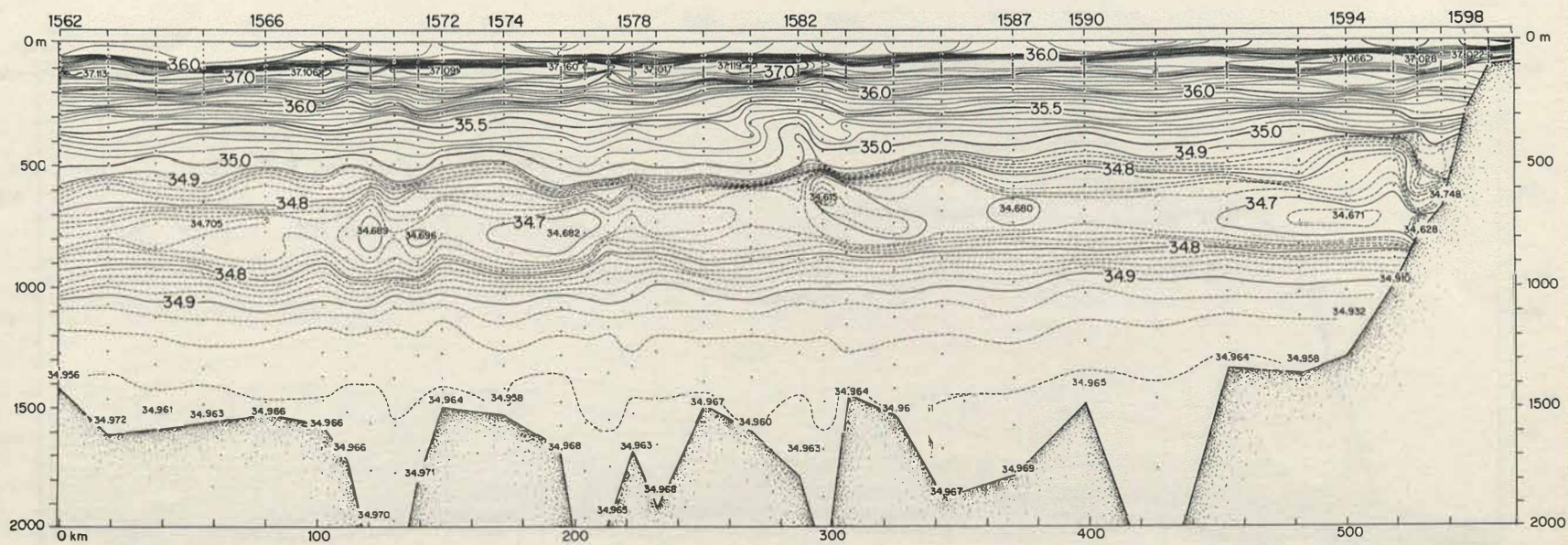


Figure 4. Atlantic Section: Stations 1611 - 1652
Temperature, Celsius



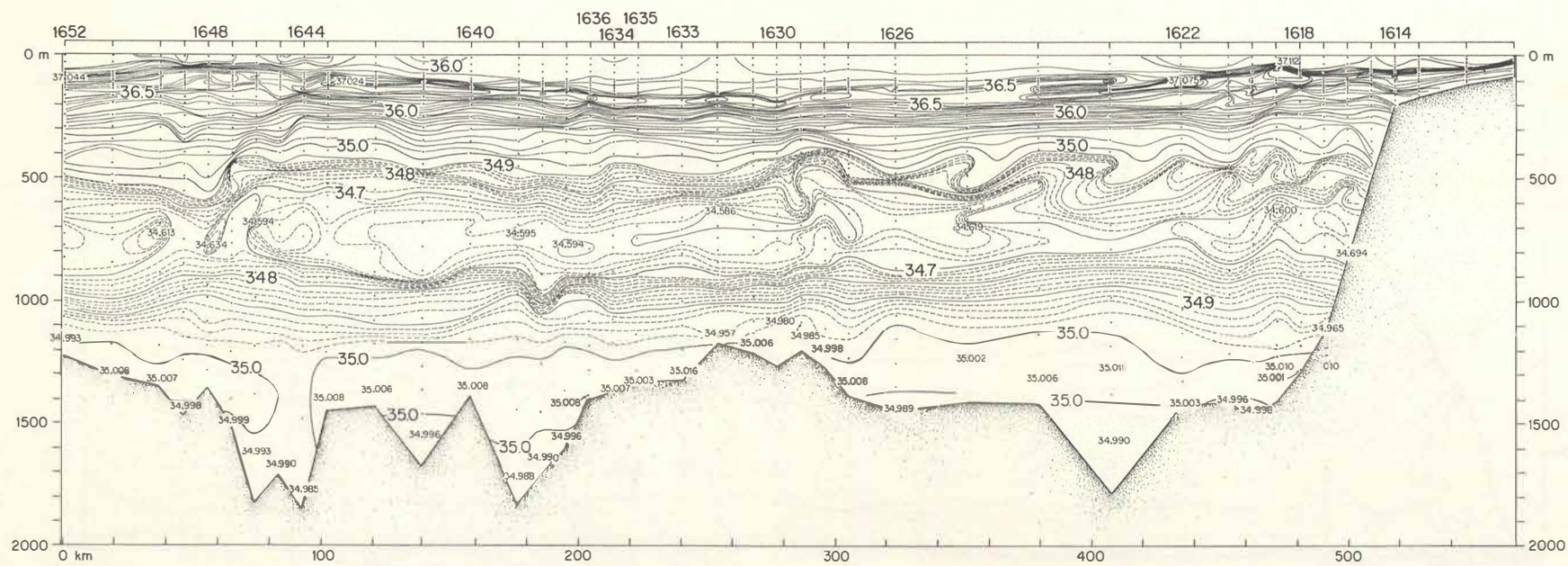


Figure 6. Atlantic Section: Stations 1611 - 1652
Salinity, parts per mille

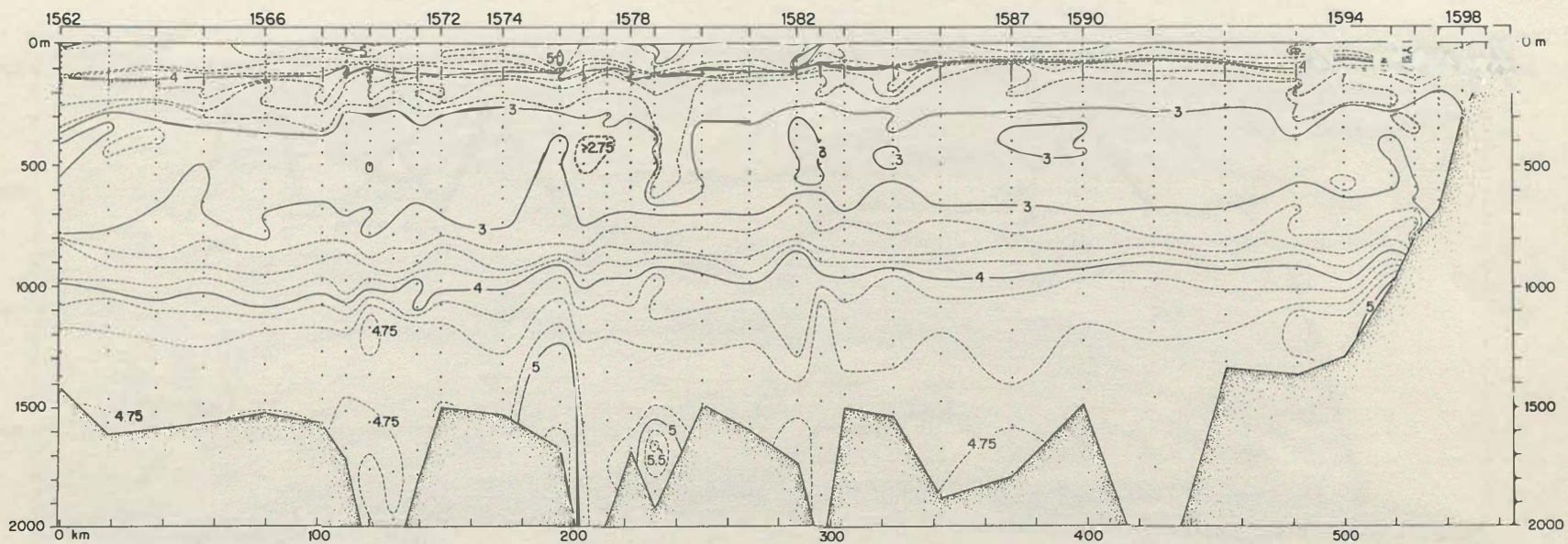


Figure 7. Caribbean Section: Stations 1562 - 1600
Dissolved Oxygen, milliliters per liter

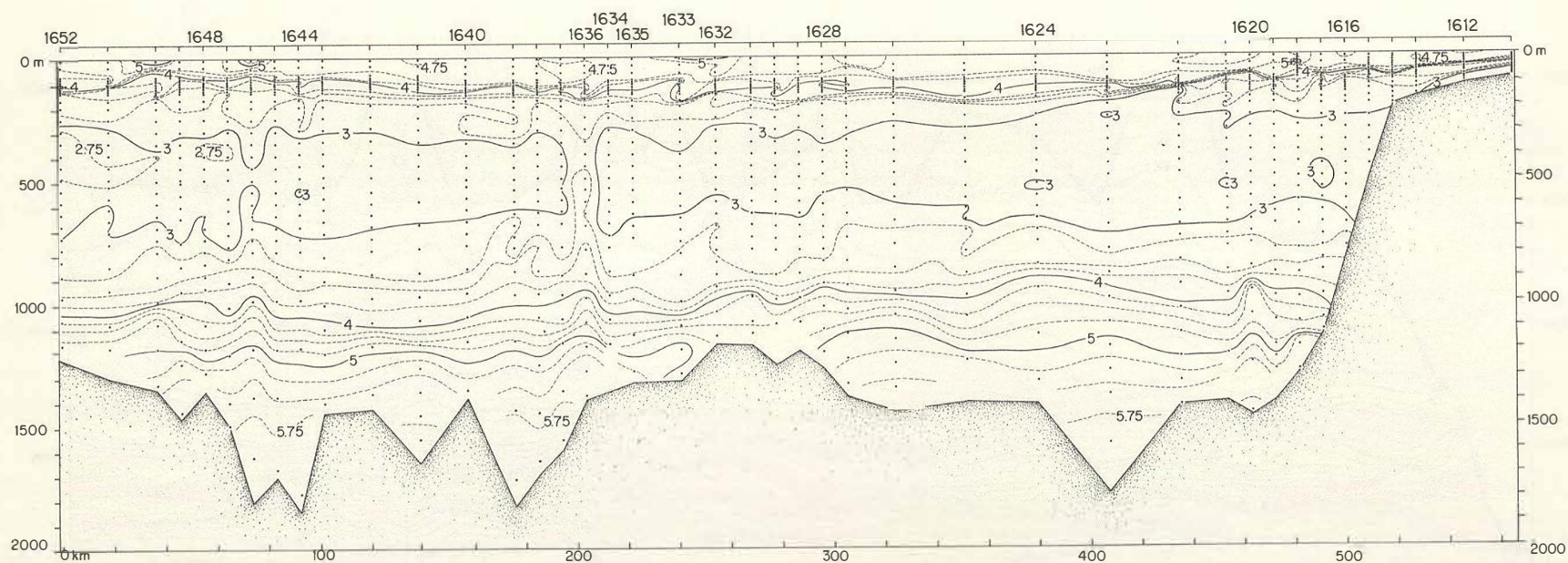


Figure 8. Atlantic Section: Stations 1611 - 1652
Dissolved Oxygen, milliliters per liter

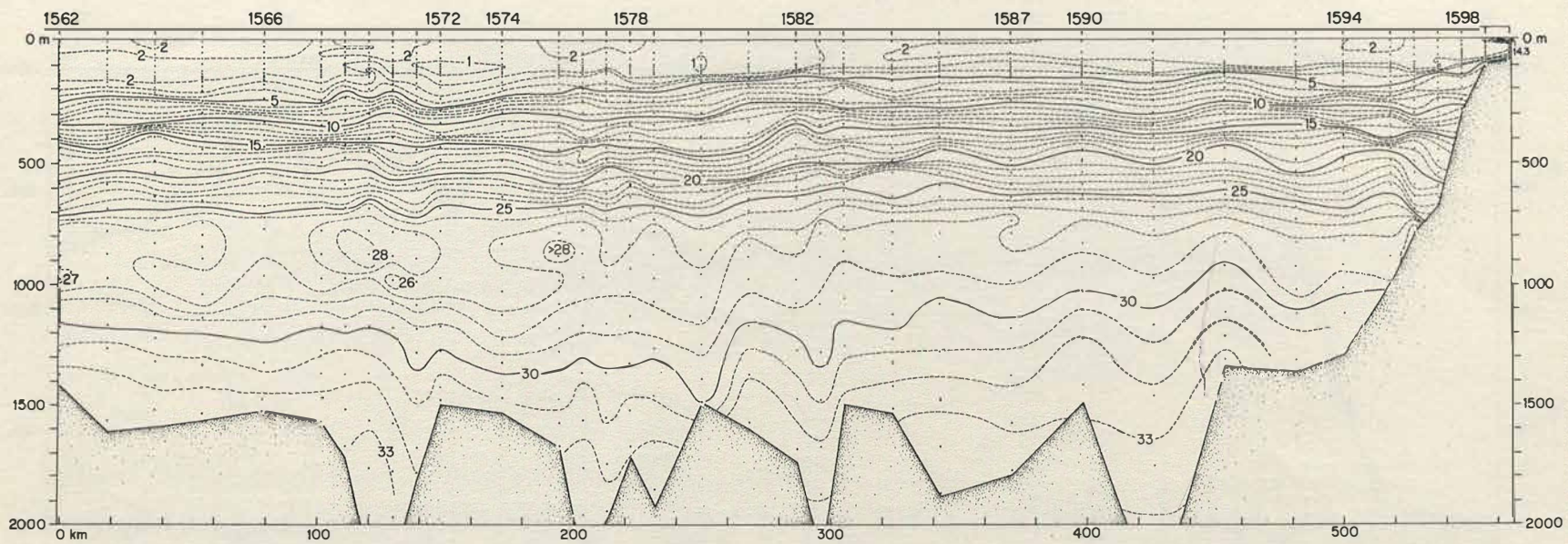


Figure 9. Caribbean Section: Stations 1562 - 1600
 Silicate, microgram-atoms per liter

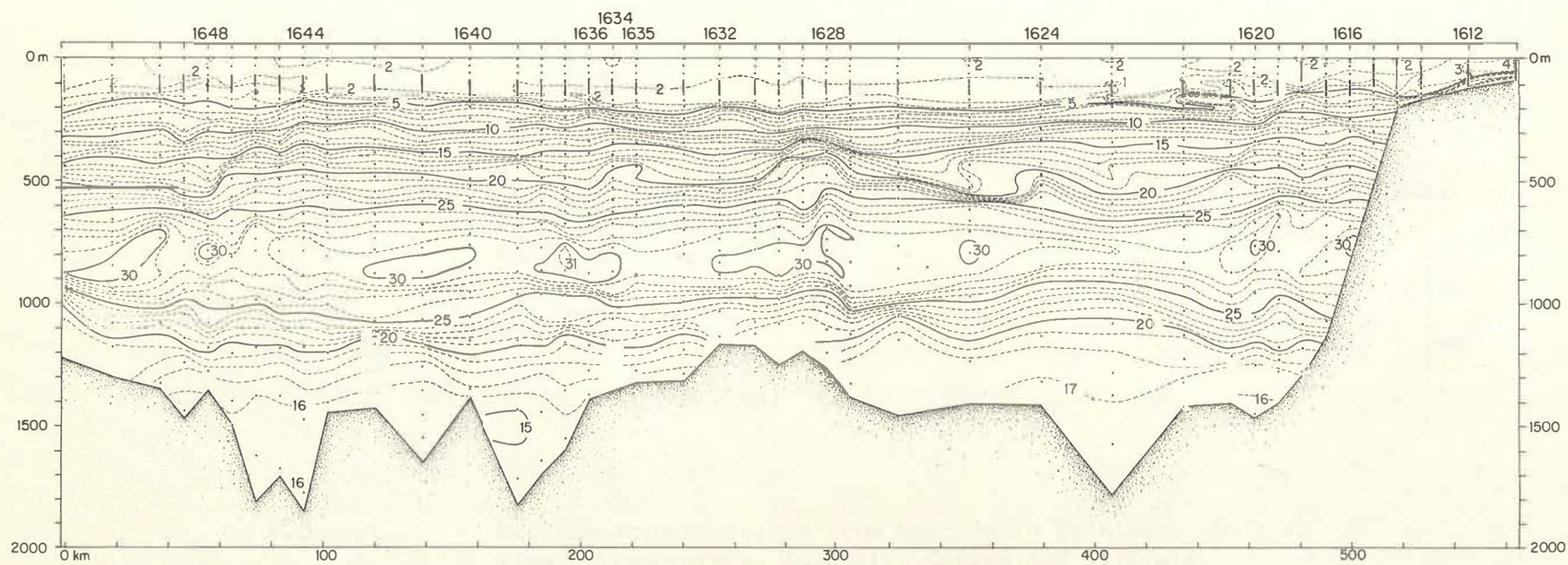


Figure 10. Atlantic Section: Stations 1611 - 1652
 Silicate, microgram-atoms per liter

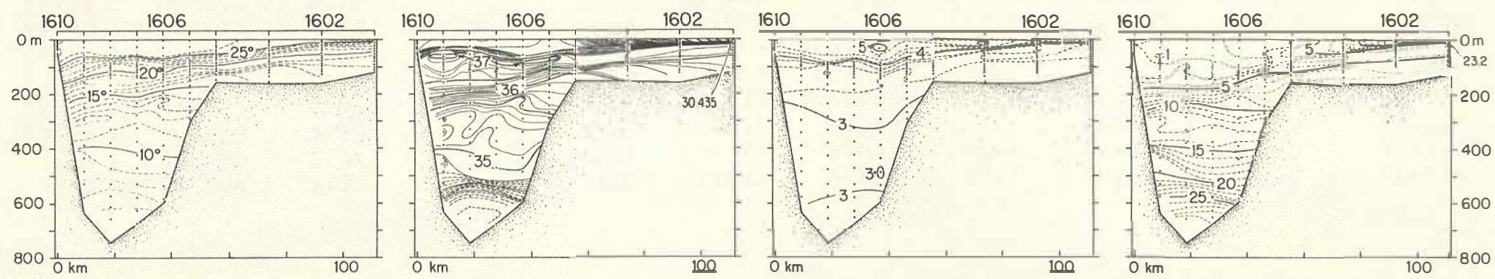


Figure 11. Section across passage from Grenada to Trinidad. Left to right, Temperature, Salinity, Oxygen and Silicate.

Latitude 24° 00' 0" N 65° 16' 0" W

.0 = 00' 0"

SHIP AN: CRUISE 056 STATION 1558 DATE 8-11-70 GMT 17.6 LATITUDE 24° 00' N LONGITUDE 65° 16' W DEPTH 0

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT.	SND VEL	P&T EN	V. FREQ	PERIOD
1	1	23.52	36.370	4.89			001	24.840	23.520	312.0	0.000	1532.8	0.000	1.59	37.7
9	9	23.51	36.368	4.96			002	24.841	23.508	312.1	0.0250	1532.9	0.013	4.62	13.0
71	71	22.79	36.598				001	25.225	22.775	278.1	0.2087	1532.4	0.732	6.44	9.3
118	118	21.21	36.792	4.57			001	25.818	21.186	223.4	0.3270	1529.4	1.848	5.31	11.3
166	166	19.35	36.668	4.53			001	26.222	19.319	186.5	0.4259	1525.0	3.266	3.75	16.0
214	214	18.32	36.572	4.38			002	26.413	18.281	170.0	0.5119	1522.8	4.934	2.22	27.0
287	288	17.82	36.514	4.77			002	26.493	17.769	164.7	0.6348	1522.5	8.086	1.82	33.0
354	385	17.40	36.454	4.73			002	26.550	17.332	162.4	0.7945	1522.8	13.581	2.10	28.6
452	484	16.40	36.259	4.39			003	26.640	16.319	156.6	0.9519	1521.2	20.565	3.02	19.9
530	583	13.75	35.793	4.33			007	26.865	13.703	136.0	1.0963	1514.0	23.393	2.65	22.6
679	683	12.08	35.575	3.51			010	27.038	11.986	120.6	1.2244	1509.6	36.637	2.59	23.1
779	784	10.08	35.309	3.29			015	27.198	9.983	105.1	1.3382	1503.9	45.127	2.49	24.1
878	883	8.13	35.082	3.31			019	27.338	8.033	90.7	1.4360	1498.0	53.426	2.20	27.3
977	983	6.95	35.004	3.99			022	27.449	6.850	79.7	1.6212	1494.9	61.525	0.00	0.0

Type

RN ATLANTIS II

Cruise no. 56

3/2 - 20/4 '70

Station numbers

1558 thru 1717

all stations obs. 2.

(elke blz. is in station).

SHIP AN CRUISE 056 STATION 1559 DATE 9-11-70 GMT 16.8 LATITUDE 20.0 N LONGITUDE 64 22.0 W DEPTH 5486

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	25.68	36.178	4.90			002	24.042	25.680	388.0	.0000	1537.7	.0003	3.44	17.4
24	24	25.40	36.157	4.88			002	24.113	25.394	382.2	.0888	1537.4	.1133	3.04	19.7
48	48	25.30	36.188	4.84			002	24.167	25.289	378.0	.1802	1537.6	.4493	6.48	9.3
73	73	25.62	36.739	4.78			001	24.484	25.603	348.8	.2713	1539.4	1.009	9.72	6.2
97	97	24.14	37.076	4.48			001	25.190	24.118	282.5	.3473	1536.7	1.661	6.56	9.1
145*	145	21.73	36.981	4.19			001	25.817	21.700	224.6	.4695	1531.4	3.143	4.87	12.3
194	194	19.98	36.801	4.33			001	26.158	19.942	193.8	.5726	1527.4	4.914	4.39	13.7
242*	242	18.27	36.572	4.49			002	26.425	18.226	169.7	.6603	1523.1	6.861	2.89	20.8
291	292	17.47	36.451	4.55			002	26.531	17.419	161.2	.7418	1521.5	9.085	2.42	24.7
340*	341	16.81	36.332	4.23			003	26.599	16.752	156.1	.8200	1520.2	11.614	3.06	19.6
388	389	15.67	36.139	4.06			004	26.716	15.607	145.9	.8929	1517.2	14.332	3.00	20.0
437*	439	14.79	36.035	4.04			005	26.833	14.721	135.8	.9624	1515.2	17.268	2.24	26.7
486	488	13.85	35.843	3.91			006	26.887	13.777	131.3	1.0283	1512.7	20.388	2.71	22.1
583*	586	11.61	35.493	3.48			011	27.064	11.532	115.1	1.1487	1506.3	26.961	2.56	23.4
681	685	9.25	35.152	3.04			017	27.216	9.170	100.2	1.2551	1499.0	33.833	2.20	27.3
778*	782	7.66	34.971	3.08			021	27.322	7.578	89.7	1.3480	1494.4	40.775	2.09	28.7
875	880	6.96	34.978	3.48			022	27.428	6.872	80.1	1.4311	1493.3	47.817	2.19	27.4
972*	978	6.22	35.001	3.99			021	27.546	6.126	69.1	1.5042	1492.0	54.730	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN C56 1560 10-11-70 9.2 19 11.0 N 62 40.0 W 5866

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
12	1	25.76	35.634				002	23.607	25.760	429.5	.0000	1537.3	.0002	4.06	14.8
24	24	25.86	35.814				002	23.712	25.854	420.4	.0979	1538.1	.1242	1.87	32.0
49	49	25.83	35.815				002	23.722	25.818	420.5	.2032	1538.52	.5182	5.25	11.4
73	73	25.86	36.084				002	23.915	25.843	403.0	.3023	1539.2	1.134	8.85	6.8
98	98	25.96	36.930				001	24.522	25.937	346.3	.3962	1540.8	1.947	7.00	8.6
147*	147	24.18	37.175				001	25.253	24.147	278.6	.5498	1537.7	3.833	5.44	11.0
196	196	22.32	37.022				001	25.681	22.279	239.6	.6773	1533.8	6.050	6.05	9.9
245*	245	19.57	36.741				002	26.220	19.523	189.7	.7830	1527.0	8.408	4.22	14.2
294	295	17.76	36.463				003	26.469	17.708	167.2	.8710	1522.4	10.824	2.87	20.9
392*	393	15.93	36.180				004	26.677	15.915	149.9	1.0273	1518.3	16.284	2.85	21.1
490	492	13.56	35.751				007	26.877	13.487	132.2	1.1665	1511.7	22.539	2.71	22.1
589			35.513				010								
687	690	8.76	35.073				018	27.233	8.682	98.0	1.3950	1497.2	36.009	2.10	28.5
786*	790	7.37	34.931				022	27.333	7.289	88.3	1.4880	1493.3	43.028	1.95	30.8
884	889	6.71	34.928				023	27.423	6.622	80.2	1.5713	1492.4	50.164	2.10	28.6
933*	969	5.99	34.345				022	27.531	5.897	70.0	1.6465	1491.2	57.350	1.85	32.5
1180	1188	5.08	35.011				018	27.696	4.975	55.0	1.7709	1490.8	71.046	1.37	43.7
1377*	1387	4.45	35.011				015	27.768	4.332	48.6	1.8741	1491.5	84.569	1.08	55.7
1572*	1585	4.03	34.992				015	27.798	3.899	46.2	1.9277	1493.0	98.7652	.93	64.3
1768	1783	3.80	34.984				016	27.816	3.653	45.4	2.0587	1495.4	114.429	.98	61.3
1964*	1982	3.54	34.976				018	27.836	3.377	44.1	2.1477	1497.6	131.540	.89	67.4
2160	2181	3.36	34.968				020	27.847	3.181	43.7	2.2350	1500.1	150.109	.89	67.2
2455*	2481	3.09	34.953				022	27.861	2.886	43.0	2.3649	1504.0	181.048	.90	66.6
2749	2780	2.87	34.945				024	27.875	2.640	42.3	2.4925	1508.1	215.328	.86	70.2
3043			34.929				026								
3336	3379	2.540	34.916				030	27.881	2.254	42.7	2.7466	1516.8	295.345	.86	69.5
3629*	3678	2.430	34.907				033	27.883	2.114	43.0	2.8748	1521.4	341.589	.88	67.9
3825			34.903				032								
3923*	3979	2.330	34.899				034	27.885	1.982	43.3	3.0047	1526.2	392.401	.00	.0

SHIP AN CRUISE 056 STATION 1561 DATE 14- II -70 GMT 2.6 LATITUDE 17 20.0 N LONGITUDE 64 59.0 W DEPTH 4342

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SI ₄	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.79	35.678	4.72			002	23.316	26.790	457.2	0.000	1539.7	0.001	.89	72.6
25	25	26.83	35.678	4.86			002	23.304	26.824	459.4	.1102	1540.21	.1471	3.31	18.1
49	49	26.91	35.799	4.69			002	23.369	26.898	454.2	.2199	1540.9	.5621	3.85	15.5
74	74	26.95	35.948	4.50			002	23.469	26.932	445.7	.3326	1541.6	1.270	9.64	6.2
93			36.738	4.31			002								
147*	147	22.61	36.997	4.04				25.579	22.579	247.4	.5864	1533.7	3.870	5.67	10.6
197	197	20.37	36.809	3.81			002	26.060	20.331	203.3	.6996	1528.5	5.836	5.16	11.6
246*	246	17.86	36.464	4.03			003	26.445	17.816	167.9	.7910	1521.9	7.890	3.42	17.5
295	296	16.38	36.203	3.65			004	26.601	16.331	154.1	.8703	1518.0	10.082	3.40	17.6
345*	346	14.65	35.898	3.34			007	26.758	14.596	140.0	.9443	1513.0	12.501	3.16	19.0
394	395	13.16	35.660	3.20			009	26.889	13.103	128.1	1.0104	1508.7	15.000	2.67	22.5
493*	495	10.39	35.207	2.89			015	27.065	10.329	111.8	1.1299	1500.1	20.401	2.26	26.6
592	595	8.46	34.948	2.98			020	27.183	8.395	100.6	1.2358	1494.3	26.273	2.10	28.6
691*	694	6.960	34.795	2.93			025	27.284	6.891	90.7	1.3313	1490.0	32.540	1.80	33.4
790	794	6.240	34.767	3.12			027	27.359	6.165	84.0	1.4185	1488.7	39.163	2.04	29.4
880*	894	5.725	34.320	3.46			027	27.466	5.644	74.3	1.4975	1488.4	45.962	2.05	29.2
988	994	5.435	34.328	4.08			025	27.581	5.396	64.3	1.5668	1489.2	52.624	1.70	35.2
1186*	1194	4.550	34.960	4.71			027	27.715	4.460	51.8	1.6830	1488.7	65.493	1.08	55.6
1380*	1390	4.27	34.967	4.87			027	27.753	4.154	49.4	1.7823	1490.8	78.596	.88	68.0
1577	1590	4.15	34.973	4.84			029	27.770	4.017	49.3	1.8808	1493.6	93.591	.78	77.3
1873*	1890	4.07	34.975	5.14			029	27.780	3.908	50.8	2.0308	1498.3	120.313	.72	83.1
2168			34.975	5.36			030								
2563*	2591	4.091	34.976	5.12			030	27.779	3.855	57.1	2.4087	1510.1	207.644	.741	81.2
2957	2992	4.14	34.975	5.11			030	27.773	3.859	61.3	2.6462	1517.0	275.584	.81	74.5
3351*	3394	4.17	34.976	5.05			030	27.771	3.841	65.1	2.9003	1524.0	358.632	.82	72.8
3745	3796	4.2201	34.976	5.061			030	27.765	3.840	69.2	3.1706	1531.0	458.127	.86	69.6
4140*	4200	4.272	34.976	5.12			030	27.760	3.838	73.4	3.4588	1538.1	576.087	.93	64.6
4287			34.977	5.07			029								
4337*	4402	4.280	34.977	5.37			028	27.759	3.819	75.1	3.6084	1541.6	641.964	1.001	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN C56 1562 15- 11 -70 .2 15 51.0 N3 61 52.0 W 1416

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.69	35.855	5.11			002	23.481	26.690	441.5	.0000	1539.7	.0003	.85	70.3
24	24	26.72	35.852	4.72			002	23.470	26.714	443.5	.1019	1540.13	.1313	2.50	24.0
49	49	26.67	35.872	4.60			002	23.501	26.658	441.6	.2127	1540.4	.5443	7.47	8.0
73	73	26.40	36.302	4.65			001	23.910	26.382	403.6	.3144	1540.7	1.173	7.54	8.0
97	97	25.92	36.655	4.62			002	24.327	25.897	364.8	.4068	1540.4	1.972	11.70	5.1
122*	122	23.53	37.113	4.59			001	25.400	23.503	263.6	.4856	1535.7	2.839	8.19	7.3
136	136	22.24	37.002	3.66			001	25.639	22.211	236.5	.5207	1532.6	3.303	8.83	6.5
146*	146	21.03	36.375	3.68			002	25.931	21.001	213.8	.5433	1529.5	3.629	3.04	19.7
156	156	20.89	36.356	4.03			002	25.954	20.859	211.9	.5647	1529.3	3.959	7.67	7.5
165*	165	20.05	36.772	3.64			002	26.117	20.018	196.6	.5832	1527.1	4.263	4.98	12.0
185	185	19.21	36.675	3.63			002	26.264	19.175	183.2	.6214	1525.0	4.946	6.04	9.9
204*	204	17.68	36.442	3.65			003	26.472	17.644	163.8	.6545	1520.6	5.605	3.91	15.3
243	243	16.08	36.164	3.54			005	26.641	16.040	148.6	.7157	1516.2	7.002	2.96	20.3
292*	293	14.790	35.933	3.353			006	26.755	14.744	138.8	.7865	1512.6	8.939	3.24	18.5
341	342	12.935	35.606	3.24			009	26.893	12.886	126.1	.8518	1507.0	11.052	2.88	20.8
383*	3903	11.315	35.334	2.92			013	26.996	11.264	116.6	.9105	1501.9	13.243	2.48	24.2
438	440	9.375	35.098	3.12			016	27.069	9.822	109.7	.9663	1497.2	15.607	1.93	30.2
486*	488	9.255	35.024	3.13			017	27.113	9.209	105.9	1.0184	1495.7	18.077	1.83	32.9
534*	587	8.125	34.886	2.91			021	27.186	8.062	99.7	1.1199	1492.8	23.641	1.79	33.5
682	685	7.200	34.803	2.97			023	27.256	7.131	93.5	1.2153	1490.8	29.835	1.76	34.1
780*	784	6.265	34.729	3.00			027	27.323	6.211	87.3	1.3046	1488.7	36.533	1.55	38.7
829	834	6.005	34.715	3.70			027	27.348	5.928	85.1	1.3472	1488.4	40.055	1.88	31.8
878*	883	5.930	34.763	3.65			027	27.395	5.848	81.2	1.3883	1488.9	43.660	2.25	26.7
927	933	5.645	34.802	3.59			027	27.462	5.561	75.0	1.4270	1488.6	47.241	2.05	29.2
977*	983	5.350	34.825	3.91			027	27.516	5.263	69.9	1.4635	1488.3	50.820	2.33	25.7
1075	1082	4.740	34.916	4.25			029	27.660	4.648	56.2	1.5260	1487.6	57.378	1.42	42.1
1174*	1162	4.500	34.939	4.50			030	27.705	4.401	52.5	1.5803	1488.3	63.662	1.31	45.8
1272*	1281	4.295	34.955	4.51			031	27.740	4.189	49.6	1.6309	1489.1	70.022	.95	63.3
1371*	1381	4.190	34.956	4.50			032	27.752	4.076	49.1	1.6803	1490.3	76.747	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1563 15- II -70 2.4 15 49.0 N 61 46.0 W 1611

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.68	35.895	4.62			002	23.515	26.680	438.3	.0000	1539.7	.000	2.71	22.1
25	25	26.63	35.925	4.62			002	23.553	26.624	435.6	.1050	1540.0	.1392	3.14	19.1
49	49	26.60	35.989	4.58			002	23.611	26.588	431.1	.2092	1540.4	.533	10.18	5.9
74	74	25.96	36.792	4.59			001	24.418	25.942	355.2	.3077	1540.3	1.141	7.01	8.6
98*	98	25.31	36.999	4.56			002	24.777	25.287	322.0	.3892	1539.4	1.854	9.05	6.6
123	123	23.37	37.066	4.14			001	25.411	23.343	262.5	.4625	1535.3	2.675	7.11	8.4
137*	137	22.48	37.011	4.05			001	25.627	22.451	242.4	.4980	1533.2	3.146	8.64	6.9
147	147	21.41	36.918	3.93			002	25.858	21.380	220.7	.5213	1530.5	3.484	6.62	9.1
157*	157	20.72	36.344	3.68			002	25.992	20.689	208.3	.5428	1528.8	3.820	5.62	10.7
167	167	20.22	36.791	3.71			002	26.086	20.187	199.7	.5633	1527.6	4.1602	6.57	9.1
186	186	18.642	36.577	3.64			003	26.335	18.606	176.4	.5992	1523.3	4.807	4.66	12.9
206	206	17.54	36.384	3.56			004	26.462	17.504	164.7	.6335	1520.2	5.495	3.82	15.7
245*	245	16.11	36.150	3.48				226.624	16.069	150.3	.6953	1516.3	6.917	3.97	15.1
29*	295	13.570	35.708	2.92			009	26.842	13.527	130.0	.7643	1508.5	8.815	2.38	25.2
343*	344	12.675	35.561	3.04			010	26.9102	12.627	124.4	.8271	1506.1	10.861	2.52	23.8
392	393	11.605	35.395	2.88			012	26.989	11.553	117.5	.8867	1503.0	13.107	2.76	21.7
441*	443	10.210	35.193	2.67			015	27.0852	10.156	108.5	.9424	1498.6	15.485	2.09	28.7
490*	492	9.065	35.006	2.90			018	27.132	9.009	104.1	.9949	1495.0	17.990	1.96	30.6
583*	583	7.565	34.815	2.93			022	27.213	7.505	96.5	1.0908	1490.6	23.270	1.82	33.22
683	686	6.850	34.785	2.92			025	27.291	6.783	89.8	1.1828	1489.4	29.247	1.57	38.1
730*	784	6.030	34.717	3.04			027	27.340	6.007	85.3	1.2684	1487.8	35.675	1.81	33.2
876	881	5.805	34.776	3.34			027	27.422	5.725	78.4	1.3477	1488.4	42.412	2.04	29.4
973*	979	5.440	34.856	3.75			027	27.530	5.2532	68.8	1.4198	1488.7	49.246	2.25	26.5
1069	1076	4.775	34.918	4.34			029	27.658	4.6842	56.5	1.4806	1487.6	55.598	1.37	43.72
1167*	1175	4.555	34.938	4.46			030	27.698	4.4562	53.2	1.5349	1488.4	61.839	1.32	45.6
1264	1273	4.350	34.954	4.58			031	27.734	4.2442	50.3	1.5856	1489.2	68.183	.942	63.6
1362			34.962	4.67			032								
1462*	1473	4.20	34.965	4.66			033	27.759	4.077	49.4	1.6855	1491.9	82.203	.92	65.1
1562*	1575	4.145	34.972	4.95			033	27.770	4.013	49.1	1.7354	1493.3	89.979	.00	.0

SHIP AN CRUISE 056 STATION 1564 DATE 15-11-70 GMT 6.1 LATITUDE 15 42.0 N LONGITUDE 61 39.0 W DEPTH 1590

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.62	35.895	4.63			002	23.534	26.620	436.5	.0000	1539.6	.0000	.66	91.5
9	9	26.64	35.897	4.72			002	23.529	26.638	437.3	.03500	1539.7	.018	1.89	31.8
33	33	26.62	35.901	4.62			002	23.538	26.612	437.4	.14010	1540.1	.244	2.33	25.7
57	57	26.59	35.920	4.63			002	23.562	26.576	436.1	.2451	1540.4	.727	4.79	12.5
81	81	26.54	36.108	4.63			002	23.720	26.520	422.1	.34830	1540.9	1.454	10.90	5.5
104*	104	24.98	36.596	4.22			002	24.573	24.956	341.6	.43630	1538.3	2.277	9.73	6.2
123	128	23.65	37.0040	4.13			002	25.282	23.622	275.1	.51050	1536.0	3.149	9.28	6.5
142*	142	22.55	37.0760	4.05			002	25.657	22.520	239.9	.54670	1533.6	3.648	6.15	9.8
152	152	21.95	37.0010	3.76			001	25.770	21.918	229.4	.5703	1532.1	4.002	7.48	8.0
162	162	21.04	36.8930	3.64			002	25.942	21.007	213.4	.5925	1529.8	4.360	4.74	12.7
172	172	20.780	36.8860	3.75			002	26.007	20.746	207.4	.61370	1529.3	4.721	6.17	9.7
191*	191	19.490	36.7200	3.72			003	26.225	19.454	187.2	.65130	1525.9	5.420	6.41	9.4
210	210	17.740	36.4470	3.74			003	26.460	17.703	165.0	.6850	1520.9	6.109	4.41	13.5
248*	248	15.480	36.0280	3.20			006	26.674	15.440	145.4	.7443	1514.2	7.494	3.12	19.2
296	297	14.050	35.7850	3.18			008	26.800	14.005	134.2	.81180	1510.1	9.371	3.31	18.1
344	345	12.110	35.4590	2.76			011	26.942	12.063	121.1	.87340	1504.0	11.387	2.29	26.2
392*	393	11.205	35.3180	2.73			016	27.004	11.154	115.8	.93060	1501.5	13.545	2.33	25.8
440	442	10.060	35.1350	2.80			016	27.066	10.007	110.1	.98520	1498.0	15.873	2.69	22.3
488*	490	8.54	34.9250	2.76			019	27.152	8.486	101.6	1.0364	1492.9	18.306	1.57	38.1
538*	540	8.22	34.896	2.80			020	27.179	8.162	99.6	1.0871	1492.4	20.975	1.92	31.3
635	638	7.22	34.816	2.90			023	27.264	7.156	92.1	1.1808	1490.1	26.604	1.46	41.0
733*	737	6.34	34.711	3.18			026	27.301	6.270	88.7	1.2701	1488.1	32.876	1.63	36.7
830	835	5.91	34.718	3.13			028	27.3630	5.8330	83.6	1.3544	1488.0	39.635	2.01	29.8
927			34.821	3.53			027								
1025	1032	5.25	34.8840	3.85			027	27.5750	5.1590	64.8	1.5004	1488.8	53.383	1.95	30.8
1122*	1130	4.72	34.9220	4.32			029	27.667	4.6240	56.0	1.5596	1488.3	59.903	1.53	39.2
1220	1229	4.410	34.9440	4.50			030	27.7190	4.3080	51.4	1.6128	1488.7	66.306	.99	60.9
1319*	1329	4.30	34.9470	4.58			031	27.7330	4.1900	50.7	1.6639	1489.9	72.986	.97	61.9
1413*	1429	4.250	34.9590	4.61			032	27.7480	4.131	50.1	1.7144	1491.3	80.103	.82	72.8
1519*	1531	4.205	34.961	4.66			032	27.7550	4.0770	50.4	1.7658	1492.8	87.876	.00	.0

SHIP AN CRUISE 056 STATION 1565 DATE 15- II -70 GMT 8.8 LATITUDE 15 35.0 N LONGITUDE 61 35.0 W DEPTH 1566

DEPTH	PRESS	TEMP	SAL	OX	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.67	35.873	4.66			002	23.501	26.670	439.6	.0000	1539.6	.0006	.93	64.2
25	25	26.71	35.875	4.66			002	23.490	26.704	441.66	.1059	1540.16	.141	1.94	30.9
49	49	26.69	35.881	4.63			002	23.501	26.678	441.6	.2120	1540.5	.5436	1.73	34.6
74	74	26.696	35.888	4.63			002	23.506	26.672	442.1	.3227	1540.9	1.240	5.18	11.6
98	98	26.54	36.073	4.64			002	23.693	26.516	425.3	.4270	1541.2	2.156	14.28	4.2
123*	123	23.81	37.092	4.21			001	25.301	23.783	273.1	.5145	1536.4	3.122	8.25	7.3
137	137	22.69	37.048	4.05			001	25.595	22.661	245.5	.5510	1533.8	3.605	6.42	9.3
147*	147	22.11	36.994	3.82			001	25.720	22.079	234.0	.5750	1532.4	3.955	5.93	10.1
157	157	21.61	36.948	3.78			001	25.826	21.578	224.3	.5981	1531.3	4.313	9.45	6.4
167*	167	20.12	36.777	3.78			002	26.102	20.088	198.1	.6193	1527.3	4.665	5.87	10.2
186	186	19.04	36.664	3.75			002	26.300	19.005	179.9	.6554	1524.5	5.316	5.56	10.8
206*	206	17.65	36.448	3.84			003	26.484	17.614	162.7	.6898	1520.6	6.006	4.39	13.7
244	244	15.52	36.068	3.62			005	26.696	15.481	143.2	.7482	1514.3	7.347	3.48	17.2
293*	294	13.36	35.674	3.38			009	26.859	13.317	128.3	.8151	1507.7	9.6180	2.77	21.7
342	343	11.92	35.430	2.99			011	26.956	11.874	119.56	.8762	1503.3	11.164	2.55	23.5
392*	393	10.39	35.171	2.91			014	27.037	10.342	112.1	.9345	1498.4	13.355	2.46	24.4
442	444	9.59	35.096	2.80			016	27.116	9.538	105.1	.9892	1496.2	15.692	1.95	30.8
493*	495	8.90	35.008	3.00			018	27.160	8.844	101.3	1.0422	1494.4	18.234	1.85	32.4
650*	653	7.06	34.810	2.99			024	27.281	6.995	90.46	1.1938	1489.7	27.070	1.60	37.4
747	751	6.08	34.705	3.07			027	27.331	6.011	85.7	1.2800	1487.3	33.245	1.70	35.3
796*	800	5.94	34.728	3.21			027	27.367	5.867	82.8	1.3216	1487.6	36.547	1.64	36.6
845	850	5.73	34.734	3.31			028	27.398	5.653	80.1	1.3619	1487.5	39.942	1.67	36.0
893*	898	5.66	34.767	3.38			028	27.433	5.579	77.3	1.4000	1488.1	43.349	2.13	28.2
942	948	5.53	34.825	3.64			027	27.494	5.445	71.9	1.4370	1488.5	46.830	1.83	32.8
1040*	1047	5.26	34.892	4.04			026	27.580	5.167	64.5	1.5045	1489.1	53.696	1.82	32.9
1133	1146	4.780	34.921	4.33			029	27.659	4.682	57.1	1.5647	1488.8	60.426	1.22	49.1
1335			34.953	4.57			031								
1485*	1497	4.185	34.965	4.64			032	27.760	4.060	49.5	1.7517	1492.2	85.444	.75	80.1
1535*	1547	4.160	34.963	4.69			033	27.761	4.031	49.7	1.7768	1492.9	89.352	.00	.0

SHIP AN CRUISE 1566 DATE 15- II -70 GMT 11.6 LATITUDE 15 21.0 N LONGITUDE 61 30.0 W DEPTH 1527

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.57	35.875	4.91			003	23.535	26.570	436.4	.0000	1539.4	.0002	.69	.87.2
23	23	26.62	35.870	4.82			002	23.515	26.614	439.2	.0965	1539.9	.119	1.77	33.9
47	47	26.61	35.874	4.77			002	23.521	26.599	439.6	.2021	1540.3	.4972	2.90	20.7
70	70	26.60	35.929	4.64			002	23.566	26.583	436.3	.3030	1540.7	1.101	9.28	6.5
94	94	25.79	36.441	4.42			002	24.206	25.768	376.2	.4007	1539.8	1.912	13.79	4.3
117*	117	22.74	37.054	4.29			001	25.585	22.715	245.7	.4724	1533.6	2.670	5.61	10.7
131	131	22.14	37.001	3.97			001	25.717	22.112	233.7	.5061	1532.3	3.097	7.50	8.0
141*	141	21.31	36.922	3.97			002	25.889	21.281	217.6	.5288	1530.2	3.412	7.75	7.7
150	150	20.33	36.789	3.64			002	26.055	20.301	202.0	.5477	1527.6	3.695	6.88	8.7
160*	160	19.46	36.676	3.47			003	26.200	19.430	188.5	.5673	1525.2	4.006	5.28	11.4
179	179	18.34	36.506	3.38			003	26.357	18.308	174.0	.6019	1522.2	4.606	4.59	13.1
198*	198	17.47	36.377	3.37			004	26.474	17.435	163.3	.6341	1519.8	5.227	4.12	14.6
236	236	15.84	36.115	3.70			005	26.659	15.801	146.6	.6933	1515.2	6.538	3.14	19.1
284*	285	14.34	35.347	3.29			007	26.786	14.297	135.4	.7614	1511.0	8.346	3.48	17.2
332	333	12.060	35.450	3.17			011	26.945	12.015	120.5	.8232	1503.7	10.290	2.49	24.1
381*	382	10.860	35.259	2.89			013	27.021	10.812	113.7	.8809	1500.0	12.398	2.08	28.8
431	433	9.860	35.097	2.91			015	27.071	9.808	109.3	.9370	1497.1	14.735	2.46	24.4
481*	483	8.650	34.945	2.83			018	27.146	8.626	102.2	.9903	1493.3	17.224	1.93	31.1
576*	579	7.470	34.816	2.88			022	27.228	7.4112	94.8	1.0845	1490.1	22.325	1.80	33.3
625	628	7.165	34.810	2.96			023	27.267	7.102	91.6	1.1306	1489.7	25.163	1.51	39.5
673*	676	6.890	34.791	2.91			024	27.290	6.824	89.7	1.1744	1489.4	28.088	1.37	43.7
721	725	6.310	34.707	3.09			026	27.302	6.242	88.4	1.2175	1487.8	31.176	1.54	38.9
769*	773	6.275	34.738	2.96	-2		027.2	27.3312	6.202	86.3	1.2598	1488.5	34.415	1.72	34.9
865	870	5.695	34.728	3.29				27.397	5.616	80.3	1.3405	1487.7	41.181	1.72	34.9
961*	967	5.500	34.791	3.53			027	27.471	5.413	74.3	1.4154	1488.6	48.201	2.00	30.0
1173	1181	4.565	34.931	4.48			029	27.692	4.466	53.9	1.5526	1488.5	63.031	1.19	50.4
1322*	1332	4.330	34.950	4.66			031	27.733	4.219	50.9	1.6316	1490.0	73.155	.99	60.3
1475*	1487	4.195	34.961	4.69			032	27.756	4.071	49.8	1.7096	1492.1	84.381	.96	62.4
1527*	15392	4.165	34.966	4.81			032	27.763	4.036	49.5	1.7357	1492.8	88.424	.00	.0

SHIP AN CRUISE 056 STATION 1567 DATE 15-11-70 GMT 14.3 LATITUDE 15 12.0 N LONGITUDE 61 26.0 W DEPTH 1570

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.87	35.568	4.78			002	23.208	26.870	467.6	.0000	1539.80	.000	6.46	9.3
25	25	26.98	36.015	4.77			002	23.509	26.974	439.8	.1090	1540.90	.141	3.39	17.7
49	49	26.82	36.040	4.72			002	23.579	26.808	434.1	.2141	1541.00	.538	4.03	14.9
74	74	26.65	36.115	4.49			002	23.690	26.632	424.6	.3216	1541.1	1.213	11.93	5.0
99	99	24.90	36.871	4.32			001	24.806	24.877	319.3	.4148	1538.3	2.022	12.85	4.7
108*	108	23.94	37.105	4.28			001	25.273	23.916	275.1	.4417	1536.5	2.306	9.07	6.6
118	118	22.95	37.059	4.14			001	25.528	22.925	251.2	.4681	1534.1	2.611	6.97	8.6
128*	128	22.34	37.023	4.04			001	25.676	22.313	237.4	.4926	1532.7	2.919	6.68	9.0
138	138	21.75	36.982	3.92			001	25.812	21.721	224.8	.5158	1531.3	3.235	6.30	9.5
148*	148	21.17	36.928	3.86			001	25.932	21.140	213.7	.5378	1529.9	3.558	6.85	8.8
172	172	19.16	36.673	3.75			002	26.275	19.128	181.7	.5855	1524.6	4.334	4.43	13.6
197*	197	18.16	36.526	3.87			003	26.418	18.124	168.9	.6295	1522.0	5.165	4.14	14.5
246	246	15.97	36.153	3.71			004	26.658	15.930	147.0	.7073	1515.8	6.919	3.25	18.5
296*	297	14.03	35.779	3.32			008	26.800	13.986	134.3	.7780	1510.1	8.877	3.01	19.9
345	346	12.520	35.531	3.31			010	26.918	12.472	123.6	.8416	1505.6	10.961	2.73	22.0
394*	395	10.950	35.266	2.90			013	27.010	10.900	115.1	.9005	1500.6	13.188	2.52	23.8
443	445	9.665	35.076	2.85			017	27.087	9.612	107.8	.9555	1496.5	15.546	2.26	26.6
493*	495	8.650	34.945	2.85			018	27.149	8.605	102.1	1.0083	1493.4	18.083	1.88	32.0
581*	584	7.705	34.851	2.88			021	27.221	0.6440	95.8	1.0960	1491.1	22.911	1.89	31.7
679	682	6.645	34.764	3.05			025	27.302	6.579	88.3	1.1870	1488.5	28.781	1.82	33.0
777*	781	5.830	34.725	3.18			028	27.378	5.7590	81.3	1.2708	1486.8	35.035	1.84	32.6
875	880	5.460	34.776	3.47			028	27.464	5.3820	73.8	1.3474	1487.0	41.526	1.58	38.0
974*	980	5.440	34.856	3.78			026	27.530	5.3520	68.8	1.4187	1488.7	48.290	1.95	30.8
1072	1079	4.965	34.904	4.23			028	27.625	4.8720	60.1	1.4824	1488.4	54.982	1.90	31.6
1171*	1179	4.455	34.942	4.50			030	27.713	4.357	51.6	1.5383	1488.0	61.410	1.12	53.4
1270	1279	4.310	34.951	4.61			031	27.736	4.2040	50.1	1.5892	1489.1	67.801	.89	67.1
1370*	1380	4.250	34.956	4.61			031	27.746	4.1350	49.9	1.6398	1490.5	74.674	.93	64.9
1470*	1481	4.180	34.961	4.69			032	27.758	4.0570	49.5	1.6901	1491.9	82.034	.80	74.5
1570*	1583	4.160	34.966	4.72			032	27.764	4.0270	49.9	1.7404	1493.5	89.917	.00	.0

SHIP AN CRUISE 056 STATION 1568 DATE 15- II -70 GMT 16.2 LATITUDE 15 9.0 N LONGITUDE 61 23.0 W DEPTH 1719

DEPTH	PRESS	TEMP	SAL	OX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	12	26.87	35.538	4.66			002	23.185	26.870	469.7	.0000	1539.7	.000	1.26	47.8
23	232	26.88	35.535	5.08			002	23.180	26.874	471.2	.1036	1540.1	.1272	5.84	10.3
46	462	27.09	35.933	4.66			002	23.412	27.079	449.9	.20972	1541.4	.499	5.51	10.9
69	692	26.97	36.154	4.65			002	23.617	26.953	431.4	.3112	1541.7	1.094	11.69	5.1
92	922	25.18	36.714	4.12			002	24.601	25.159	338.5	.3999	1538.7	1.813	10.55	5.7
101*	101	24.00	36.655	3.93			002	24.914	23.977	309.0	.42922	1536.0	2.101	11.72	5.1
111	111	23.15	36.894	3.97			002	25.345	23.126	268.3	.45812	1534.3	2.414	8.26	7.3
120*	120	22.75	36.992	4.01			001	25.535	22.724	250.5	.48162	1533.6	2.691	10.88	5.5
129	129	21.43	36.939	3.76			001	25.869	21.404	219.1	.50282	1530.3	2.961	8.90	6.7
139*	139	20.15	36.803	3.61			002	26.114	20.123	196.0	.5236	1526.9	3.246	5.62	10.7
162	162	18.78	36.619	3.55			003	26.332	18.750	175.9	.56662	1523.3	3.906	4.90	12.2
185*	185	17.21	36.321	3.35			004	26.4942	17.178	160.9	.60552	1518.8	4.596	3.68	216.32
232	232	15.45	36.018	3.38			006	26.673	15.413	145.0	.6778	1513.8	6.132	2.76	21.7
280*	281	14.34	35.824	2.99			007	26.768	14.297	136.9	.7458	1510.9	7.914	2.90	20.7
327	323	13.05	35.610	2.84			009	26.873	13.003	127.7	.8084	1507.1	9.857	2.80	21.4
376*	377	11.55	35.360	2.96			012	26.972	11.500	118.7	.8691	1502.5	12.043	2.58	23.2
425	426	10.21	35.153	2.87			016	27.054	10.158	111.1	.9258	1498.3	14.368	2.66	22.5
473*	477	8.68	34.941	2.85			019	27.143	8.627	102.4	.9795	1493.2	16.845	1.61	37.2
585*	588	7.76	34.839	2.85			021	27.203	7.699	97.6	1.0903	1491.4	22.864	1.94	30.9
682	685	6.700	34.757	2.96			025	27.289	6.634	89.7	1.1813	1488.7	28.805	1.97	30.5
779*	783	5.73	34.710	3.13			028	27.379	5.660	81.0	1.2653	1486.4	35.054	1.39	43.0
877	882	5.54	34.736	3.55			028	27.423	5.461	77.8	1.3439	1487.3	41.733	1.64	36.5
975*	981	5.47	34.814	3.56			027	27.493	5.382	72.3	1.4181	1488.8	43.794	1.79	33.5
1073	1080	5.33	34.899	4.04				27.577	5.234	65.4	1.4863	1489.9	55.957	2.22	27.0
1171*	1179	4.545	34.937	4.45			030	27.699	4.446	53.2	1.5449	1488.4	62.704	1.33	45.2
1270	1279	4.315	34.951	4.61			031	27.735	4.209	50.1	1.5966	1489.1	69.193	.98	61.1
1369*	1379	4.235	34.959	4.64			032	27.750	4.121	49.5	1.6465	1490.4	75.968	.82	73.3
1519*	1531	4.175	34.963	4.80			032	27.760	4.047	49.8	1.7218	1492.7	87.180	.79	75.8
1671*	1685	4.130	34.966	4.79			033	27.767	3.988	50.4	1.7990	1495.1	99.863	.00	.0

SHIP AN CRUISE 056 STATION 1569 DATE 15-11-70 GMT 18.6 LATITUDE 15 4.0 N LONGITUDE 61 22.0 W DEPTH 2165

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.79	35.755	4.743			002	23.374	26.790	451.7	.0000	1539.8	.0003	1.60	37.6
25	25	26.79	35.757	4.77			002	23.376	26.784	452.5	.1087	1540.2	.1453	2.94	20.4
49	49	26.71	35.787	4.78			002	23.424	26.698	448.9	.2170	1540.43	.5543	6.96	8.6
74	74	26.60	36.228	4.46			002	23.791	26.582	415.0	.3252	1541.1	1.2303	11.47	5.2
99	99	24.35	36.670	3.99			002	24.820	24.328	317.8	.4170	1536.8	2.028	9.52	6.3
109*	109	23.39	36.666	3.76			003	25.102	23.366	291.3	.4476	1534.6	2.3523	12.39	4.8
119	119	21.60	36.627	3.42			003	25.584	21.576	245.7	.4745	1530.2	2.6663	7.78	7.7
129*	129	21.81	36.952	3.79			002	25.773	21.783	228.2	.4983	1531.3	2.968	7.44	8.1
138	138	21.06	36.879	3.63			002	25.925	21.032	214.0	.5183	1529.4	3.2413	5.91	10.2
148*	148	20.49	36.813	3.78			002	26.030	20.461	204.3	.5393	1528.0	3.548	5.38	11.2
173	173	19.13	36.624	3.47			003	26.246	19.098	184.5	.5881	1524.5	4.348	5.29	11.3
198*	198	17.55	36.376	3.70			004	26.454	17.515	165.3	.6321	1520.1	5.181	3.60	16.7
247	247	15.89	36.093	3.35			006	26.630	15.850	149.6	.7096	1515.5	6.941	3.93	15.3
297*	298	13.42	35.677	2.98			009	26.849	13.377	129.4	.7798	1508.0	8.885	3.05	19.7
346	347	11.82	35.424	2.92			011	26.971	11.774	118.2	.8408	1503.0	10.892	2.29	26.2
396*	397	10.74	35.248	2.83			014	27.034	10.690	112.7	.8989	1499.8	13.101	2.36	25.5
445	447	9.500	35.056	2.77			017	27.099	9.448	106.6	.9530	1495.9	15.433	2.19	27.4
494*	496	8.535	34.928	3.03			019	27.155	8.481	101.4	1.0043	1493.0	17.904	1.60	37.5
584*	587	7.595	34.806	2.90			022	27.202	7.535	97.6	1.0945	1490.7	22.891	2.22	27.0
681	684	6.18	34.707	3.01			027	27.319	6.117	86.1	1.1843	1486.6	28.697	.78	77.0
779*	783	6.05	34.689	2.99			028	27.322	5.978	86.9	1.2697	1487.7	35.115	1.79	33.5
877	882	5.54	34.706	3.22			029	27.399	5.461	80.0	1.3523	1487.3	42.126	1.88	31.8
975*	981	5.42	34.509	3.78			027	27.495	5.333	72.0	1.4275	1488.5	49.270	2.02	29.8
1170	1178	4.52	34.9373	4.94			030	27.701	4.421	52.8	1.5504	1488.3	62.653	1.10	54.3
1366*	1376	4.265	34.956	4.67			032	27.744	4.151	50.0	1.6524	1490.5	75.937	.89	67.2
1564	1577	4.145	34.964	4.78			033	27.764	4.013	49.7	1.7524	1493.4	91.030	.76	79.3
1761*	1776	4.115	34.968	4.73			033	27.770	3.964	50.9	1.8528	1496.5	108.250	.70	85.5
1960*	1978	4.110	34.968	4.75			034	27.771	3.939	52.6	1.9572	1499.9	128.306	.72	83.0
2160*	2181	4.110	34.969	4.74			035	27.771	3.918	54.3	2.0658	1503.3	151.401	.00	.0

SHIP AN CRUISE 056 STATION 1570 DATE 15- II -70 GMT 21.0 LATITUDE 14 59.0 N LONGITUDE 61 20.0 W DEPTH 2172

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.83	35.741	4.98			002	23.351	26.830	453.9	.0000	1539.9	.0000	1.67	35.9
25	25	26.81	35.737	4.65			002	23.354	26.804	454.6	.1092	1540.2	.145	2.54	23.6
50	50	26.79	35.772	4.62			002	23.387	26.778	452.5	.2227	1540.6	.5810	7.06	8.5
75	75	26.47	36.140	4.51			002	23.766	26.452	417.4	.3316	1540.7	1.272	11.70	5.1
100	100	24.95	36.935	4.30			001	24.839	24.927	316.2	.4236	1538.5	2.079	7.61	7.9
110*	110	24.55	37.009	4.21			001	25.016	24.525	299.7	.4545	1537.8	2.411	8.96	6.7
119	119	23.65	36.949	4.04			002	25.240	23.624	278.7	.4806	1535.8	2.717	12.27	4.9
129*	129	22.13	36.992	3.83			002	25.713	22.103	234.0	.5063	1532.2	3.043	5.63	10.7
139	139	21.64	36.935	3.72			002	25.807	21.611	225.3	.5294	1531.0	3.359	6.51	9.2
149*	149	20.98	36.864	3.79			002	25.936	20.950	213.4	.5514	1529.4	3.684	7.16	8.4
174	174	18.60	36.553	3.47			003	26.327	18.568	176.7	.6004	1522.9	4.488	-2.120	28.3
198*	198	16.93	35.950	3.32			005	26.277	16.896	181.8	.6436	1517.7	5.313	5.42	11.1
245	245	15.02	35.955	3.15			007	26.721	14.981	140.8	.7247	1512.7	7.141	3.59	16.7
297*	298	12.74	35.559	2.84			010	26.896	12.698	124.6	.7901	1505.5	8.959	2.29	26.3
346	347	11.86	35.418	2.97			011	26.959	11.813	119.4	.8502	1503.2	10.940	2.47	24.3
395*	396	10.68	35.233	2.75			014	27.033	10.630	112.7	.9074	1499.6	13.112	1.71	35.2
444	446	9.93	35.100	2.77			016	27.061	9.876	110.6	.9625	1497.5	15.483	2.08	28.8
493*	495	9.25	35.019	2.75			017	27.112	9.193	106.2	1.0160	1495.7	18.054	1.90	31.6
585*	591	7.94	34.853	2.79			021	27.188	7.877	99.4	1.1144	1492.1	23.500	1.91	31.4
785	789	5.97	34.718	3.12			028	27.355	5.897	83.8	1.2963	1487.5	36.179	1.69	35.6
883*	888	5.59	34.744	3.33			028	27.423	5.510	78.0	1.3762	1487.6	43.023	1.90	31.5
982	988	5.47	34.8510	3.74			026	27.522	5.381	69.7	1.4500	1488.9	50.080	2.25	26.7
1080*	1087	4.82	34.913	4.26			028	27.652	4.727	57.2	1.5128	1488.0	56.712	1.61	37.2
1179	1187	4.045	34.941	4.62			030	27.712	4.351	51.7	1.5673	1488.1	63.032	1.00	59.8
1376*	1386	4.26	34.955	4.63			031	27.744	4.145	50.1	1.6688	1490.7	76.365	.84	71.3
1574	1587	4.170	34.961	4.69			032	27.759	4.037	50.4	1.7695	1493.6	91.682	.81	74.2
1773*	1788	4.110	34.966	4.81			033	27.769	3.958	51.1	1.8718	1496.7	109.334	.74	81.4
1972*	1990	4.105	34.970	4.74			034	27.773	3.933	52.5	1.9763	1500.1	129.532	.71	84.9
2172*	2193	4.105	34.969	4.74			035	27.772	3.912	54.40	2.0848	1503.5	152.749	.00	.0

SHIP AN CRUISE 056 STATION 1571 DATE 15- 11 -70 GMT 23.3 LATITUDE 14 53.0 N LONGITUDE 61 18.0 W DEPTH 1809

DEPTH	PRESS	TEMP	SAL	ØX	PØ4	PHØS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PØT EN	V FREQ	PERIOD
1	1	26.68	35.776	4.63			002	23.425	26.680	446.8	.0000	1539.6	.0005	.56	108.0
25	25	26.72	35.766	4.73			002	23.405	26.714	449.8	.010775	1540.0	.1445	2.69	22.35
49	49	26.69	35.803	4.70			002	23.442	26.678	447.2	.21555	1540.4	.05525	6.71	8.9
74	74	26.35	36.112	4.55			001	23.783	26.332	415.7	.32365	1540.4	1.227	13.45	4.5
99	99	23.90	37.003	4.09			001	25.207	23.878	281.0	.41095	1536.1	1.979	8.33	7.2
108*	108	23.41	37.067	4.07			001	25.400	23.386	263.0	.43555	1535.1	2.239	7.01	8.6
118	118	22.87	37.057	4.00			001	25.550	22.845	249.1	.46125	1533.9	2.536	7.12	8.4
128*	128	22.17	36.997	3.89			002	25.705	22.143	234.7	.48555	1532.3	2.841	8.40	7.1
138	138	21.01	36.858	3.71			002	25.923	20.982	214.2	.5080	1529.3	3.148	5.01	12.0
148*	148	20.61	36.812	3.68			002	25.997	20.581	207.5	.5292	1528.3	3.458	5.26	11.4
173	173	19.38	36.653	3.47			003	26.203	19.347	188.6	.5789	1525.2	4.273	4.97	12.1
197*	197	18.18	36.481	3.51			003	26.378	18.144	172.6	.6225	1522.0	5.097	3.87	15.5
246	246	16.46	36.208	3.41			005	26.586	16.419	154.0	.70295	1517.4	6.912	3.86	15.5
296*	297	14.28	35.843	3.14			008	26.796	14.235	134.8	.77555	1511.0	8.918	3.32	18.1
345	346	11.990	35.427	2.93			011	26.941	11.943	121.2	.8386	1503.6	10.985	2.49	24.1
394*	395	10.970	35.280	2.83			013	27.018	10.920	114.4	.8967	1500.7	13.184	1.92	31.2
444	446	10.135	35.141	2.91			016	27.058	10.081	111.1	.9534	1498.3	15.623	2.36	25.5
493*	495	9.310	35.050	2.82			017	27.126	9.253	104.9	1.0067	1496.0	18.183	1.85	32.4
603*	606	7.480	34.788	2.84			022	27.2045	7.415	97.5	1.1188	1490.5	24.473	1.79	33.4
700	704	6.755	34.752	3.21			024	27.278	6.686	91.1	1.2110	1489.3	30.630	1.92	31.3
796*	800	5.790	34.696	3.18			027	27.360	5.718	83.1	1.2953	1486.9	37.095	1.65	36.3
893	898	5.460	34.727	3.38			028	27.426	5.380	77.6	1.3740	1487.2	43.912	2.03	29.6
989*	995	5.285	34.840	4.15			027	27.536	5.197	68.1	1.4446	1488.3	50.722	2.11	28.4
1086	1093	4.845	34.921	3.93			027	27.652	4.751	57.4	1.5060	1488.2	57.258	1.50	40.1
1184	1192	4.530	34.938	4.69			029	27.701	4.430	53.0	1.5607	1488.5	63.634	1.18	50.9
1281	1290	4.375	34.949	4.86			030	27.727	4.267	51.2	1.6118	1489.5	70.114	.98	61.1
1478*	1490	4.200	34.961	4.88			031	27.755	4.076	49.9	1.7125	1492.1	84.415	.79	75.8
1673*	1693	4.140	34.965	4.87			032	27.765	3.997	50.7	1.8149	1495.3	101.076	.81	74.3
1781*	1796	4.130	34.971	4.95			032	27.771	3.977	51.0	1.8674	1497.0	110.456	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1572 16-011 -700 101 14 48.0 N 61 18.0 W 1500

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.77	35.734	4.66			001	23.365	26.770	452.6	0.000	1539.7	0.000	4.19	14.3
24	24	26.71	35.857	4.66			002	23.477	26.704	442.9	0.1031	1540.1	0.131	2.99	20.1
47	47	26.66	35.900	4.75			002	23.525	26.649	439.2	0.2047	1540.4	0.499	4.62	13.0
71	71	26.49	36.021	4.56			001	23.670	26.473	426.4	0.3088	1540.6	1.126	12.36	4.9
95	95	24.79	36.849	4.26			001	24.822	24.768	317.5	0.3983	1538.0	1.870	9.67	6.2
104*	104	24.29	36.996	4.19			001	25.085	24.267	292.9	0.4258	1537.1	2.150	4.91	12.2
114	114	24.18	37.045	4.16			001	25.155	24.154	286.6	0.4549	1537.1	2.475	10.40	5.8
123*	123	23.22	37.071	4.06			001	25.459	23.193	258.0	0.4795	1534.9	2.773	6.94	8.6
133	133	22.45	36.971	3.81			001	25.606	22.422	244.3	0.5047	1533.0	3.0103	9.00	6.7
142*	142	21.37	36.868	3.64			002	25.831	21.341	223.10	0.5258	1530.3	3.400	5.15	11.6
166	166	20.48	36.796	3.57			002	26.020	20.447	205.9	0.5775	1528.3	4.0214	5.34	11.2
190*	190	19.23	36.629	3.47			002	26.224	19.194	187.2	0.6249	1525.0	5.076	4.97	12.1
238	238	16.65	36.250	3.55			003	26.574	16.610	155.0	0.7073	1517.9	6.868	3.79	15.8
286*	287	14.25	35.796	3.05			007	26.766	14.207	137.3	0.7780	1510.6	8.753	3.26	18.4
335	336	12.530	35.521	2.87			010	26.908	12.483	124.3	0.8425	1505.4	10.799	2.29	26.2
384*	385	11.560	35.360	2.85			011	26.971	11.509	119.0	0.9025	1502.7	13.010	2.69	22.3
434	436	10.040	35.125	2.77			016	27.062	9.987	110.4	0.9602	1497.8	15.429	2.23	27.0
484*	486	8.780	34.930	2.82			018	27.118	8.726	104.9	1.0144	1493.7	17.980	2.17	27.7
585*	586	7.345	34.803	2.90			022	27.236	7.286	94.1	1.1157	1489.7	23.511	1.81	33.2
682	685	6.300	34.711	2.970			025	27.307	6.236	87.4	1.2044	1487.1	29.272	1.64	36.7
780*	784	5.835	34.714	3.180			027	27.369	5.764	82.2	1.2882	1486.9	35.557	2.01	29.8
873	883	5.360	34.773	3.66			027	27.474	5.282	72.7	1.3648	1486.6	42.061	1.83	32.7
976*	982	5.195	34.861	3.87			027	27.563	5.109	65.2	1.4330	1487.7	48.545	1.98	30.2
1075	1082	4.740	34.922	4.30			028	27.665	4.648	55.8	1.4934	1487.6	54.903	1.52	39.5
1174*	1182	4.430	34.944	4.54			029	27.717	4.332	51.2	1.5470	1488.0	61.086	1.05	57.2
1274	1283	4.315	34.952	4.62			030	27.736	4.209	50.1	1.5981	1489.2	67.535	0.90	66.7
1376*	1386	4.240	34.955	4.66			031	27.746	4.125	49.9	1.6497	1490.6	74.574	1.05	57.0
1427*	1438	4.205	34.963	4.67			031	27.756	4.085	49.3	1.6753	1491.3	78.270	0.83	72.4
1479*	1491	4.0180	34.964	4.75			032	27.760	4.056	49.4	1.7013	1492.1	82.160	0.00	0.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1573 16- II -70 10.0 14 36.0 N 62 15.0 W 2878

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.71	35.779	4.67			002	23.418	26.710	447.5	.0000	1539.6	.000	.89	67.1
24	24	26.78	35.778	4.81			002	23.395	26.774	450.7	.1034	1540.2	.133	5.01	12.0
49	49	26.68	35.976	4.69			002	23.576	26.663	434.5	.21422	1540.6	.5442	11.80	5.1
73	73	25.77	36.986	4.55			001	24.624	25.753	335.5	.3068	1540.0	1.108	10.15	5.9
97	97	22.28	36.628	4.33			003	25.394	22.260	263.0	.3789	1531.6	1.724	7.50	8.0
121*	121	21.53	36.899	4.29			002	25.811	21.505	224.3	.4376	1530.4	2.374	6.73	8.9
146	146	19.70	36.702	3.53			003	26.157	19.672	192.1	.4899	1525.7	3.084	4.97	12.1
194*	194	17.15	36.318	3.59			004	26.506	17.116	160.0	.5748	1518.8	4.545	3.71	16.2
291	292	12.99	35.605	3.04			009	26.881	12.949	125.9	.7143	1506.3	7.932	2.68	22.4
388*	389	10.54	35.237	2.98			013	27.061	10.492	109.8	.8293	1499.0	11.903	1.97	30.5
486	488	8.71	34.950	2.84			018	27.145	8.656	102.4	.9340	1493.5	16.583	1.98	30.3
583*	586	7.43	34.317	2.87			022	27.234	7.370	94.3	1.0301	1490.0	21.840	1.58	38.0
680	683	6.64	34.741	2.95			025	27.285	6.574	90.0	1.1202	1488.5	27.675	1.70	35.2
777	781	5.81	34.682	3.12			027	27.347	5.739	84.2	1.2053	1486.7	34.039	1.99	30.1
874	879	5.54	34.773	3.46			027	27.452	5.462	75.0	1.2832	1487.3	40.631	2.14	28.1
971*	977	5.18	34.872	3.97			023	27.574	5.095	64.1	1.3513	1487.6	47.069	2.10	28.5
1068	1075	4.62	34.931	4.44			029	27.685	4.530	53.5	1.4089	1487.0	53.088	1.38	43.6
1165*2	1173	4.38	34.948	4.72			030	27.726	4.283	50.1	1.4597	1487.6	58.918	.90	66.9
1271*	1280	4.31	34.953	4.75			030	27.737	4.204	49.9	1.5134	1489.1	65.642	.95	63.4
1369	1379	4.23	34.958	4.69			031	27.750	4.116	49.5	1.5626	1490.4	72.339	.85	70.5
1467*	1478	4.130	34.961	4.79			031	27.758	4.057	49.5	1.6117	1491.9	79.511	.82	73.1
1565	1578	4.155	34.966	4.95			031	27.764	4.023	49.7	1.6610	1493.4	87.205	.74	80.9
1760*	1775	4.130	34.969	4.78			032	27.769	3.979	51.0	1.7605	1496.6	104.274	.73	82.5
1956	1974	4.110	34.969	4.80			032	27.771	3.939	52.5	1.8633	1499.8	124.001	.69	87.3
2152*	2173	4.120	34.968	4.83			032	27.770	3.929	54.5	1.9697	1503.2	146.579	.71	84.7
2347	2371	4.140	34.969	4.84			033	27.768	3.928	56.5	2.0796	1506.6	172.119	.76	79.5
2543*	2570	4.145	34.970	4.78			033	27.768	3.911	58.2	2.1938	1510.0	200.984	.76	78.4
2740*2	2771	4.170	34.974	4.73			034	27.769	3.913	60.0	2.3123	1513.4	233.344	.78	77.3
2839*	2871	4.170	34.973	4.82			032	27.768	3.902	61.0	2.3733	1515.1	250.928	.00	.0

SHIP AN CRUISE C56 STATION 1574 DATE 16- 11 -70 GMT 18.5 LATITUDE 14 37.0 N LONGITUDE 61 12.5 W DEPTH 1533

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHBS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.86	35.737	4.69			002	23.338	26.860	455.1	.0000	1539.9	.0002	2.25	26.7
24	24	26.80	35.738	4.99			001	23.358	26.794	454.2	.10472	1540.2	.1342	3.27	18.4
49	49	26.79	35.822	4.64			002	23.425	26.778	448.9	.21772	1540.6	.5552	7.82	7.7
73	73	26.23	36.184	4.49			001	23.875	26.212	406.9	.32062	1540.2	1.191	11.52	5.2
93	93	24.46	36.838	4.15			001	24.914	24.438	308.9	.41032	1537.2	1.961	9.68	6.2
107*	107	23.86	36.348	4.09			001	25.177	23.836	284.2	.4371	1536.1	2.242	11.01	5.5
117	117	22.64	36.978	3.88			001	25.556	22.615	248.4	.46382	1533.3	2.547	7.58	7.9
127*	127	21.81	36.900	3.93			001	25.733	21.784	231.9	.48792	1531.2	2.848	7.75	7.7
136	136	21.14	36.874	3.61			001	25.900	21.113	216.4	.50822	1529.6	3.121	4.65	12.9
146*	1462	20.79	36.831	3.53			002	25.963	20.761	210.7	.52962	1528.8	3.430	6.77	8.9
171	1712	18.73	36.576	3.47			003	26.312	18.698	173.1	.57852	1523.3	4.218	5.36	11.2
195*	1952	17.01	36.288	3.37			004	26.517	16.977	159.0	.61912	1518.3	4.978	3.91	15.3
244	2442	14.87	35.925	3.13			006	26.731	14.832	139.6	.69272	1512.1	6.622	3.42	17.5
292*	2932	12.72	35.540	2.90			010	26.885	12.679	125.4	.7567	1505.4	8.373	2.62	22.9
341	3422	11.76	35.413	2.87			011	26.974	11.714	117.8	.81662	1502.7	10.316	2.09	28.7
390*	3912	10.94	35.281	2.97			013	27.024	10.890	113.7	.87372	1500.5	12.455	2.47	24.3
439	4412	9.390	35.027	2.76			016	27.095	9.339	106.8	.92812	1495.4	14.765	2.12	28.4
488*	4902	8.405	34.890	2.79			018	27.146	8.352	102.0	.97962	1492.3	17.215	1.93	31.0
588*	591	7.290	34.792	2.83			022	27.2352	7.2302	94.1	1.0784	1489.6	22.656	1.74	34.5
637	640	6.900	34.766	2.87			023	27.269	6.837	91.2	1.1242	1488.8	25.535	1.60	37.4
735*	739	6.145	34.706	2.96			026	27.323	6.076	86.4	1.2119	1487.3	31.709	1.82	32.9
833	832	5.510	34.705	3.21			027	27.402	5.436	79.1	1.2937	1486.4	38.287	1.72	34.8
931*	937	5.310	34.771	3.51			027	27.479	5.228	72.8	1.3689	1487.3	45.088	2.09	28.7
1029	1036	5.065	34.885	4.06			026	27.598	4.975	62.3	1.4357	1488.1	51.802	1.58	38.0
1127*	1135	4.770	34.915	4.24			027	27.656	4.673	57.3	1.4949	1488.6	58.356	1.36	44.0
1225	1234	4.560	34.935	4.40			028	27.695	4.456	54.1	1.5500	1489.4	65.025	1.25	47.9
1323*	1333	4.370	34.947	4.55			029	27.726	4.258	51.7	1.6024	1490.2	71.894	1.09	54.9
1421*	1432	4.265	34.959	4.59			030	27.747	4.145	50.4	1.6530	1491.4	79.039	.81	74.3
1470	1481	4.235	34.958	4.66			030	27.749	4.111	50.5	1.6780	1492.1	82.764	.00	.0

SHIP AN CRUISE 056 STATION 1575 DATE 16-11-70 GMT 21.5 LATITUDE 14 24.0 N LONGITUDE 61 9.0 W DEPTH 1677

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.84	35.490	4.90			002	23.159	26.840	472.3	.0000	1539.6	.000	1.77	34.0
25	25	26.85	35.502	4.96			002	23.165	26.844	472.7	.1135	1540.0	.1512	2.14	28.0
49	49	26.78	35.495	5.142			002	23.182	26.768	472.1	.2270	1540.3	.5812	8.88	6.8
74	74	26.66	36.254	5.112			002	23.792	26.642	414.9	.3381	1541.2	1.271	12.32	4.9
99	99	24.78	37.058	4.742			001	24.984	24.757	302.4	.42802	1538.2	2.049	8.25	7.3
108*	108	24.41	37.160	4.722			001	25.173	24.385	284.7	.45452	1537.6	2.329	9.73	6.2
118	118	22.88	36.951	3.822			002	25.467	22.855	257.0	.4817	1533.8	2.643	7.79	7.7
126*	123	22.23	36.952	4.012			002	25.654	22.203	239.5	.5066	1532.4	2.956	5.06	11.8
138	138	21.36	36.729	4.222			003	25.729	21.332	232.7	.5303	1530.0	3.279	6.44	9.3
148*	148	20.71	36.660	3.65			003	25.854	20.681	221.0	.5531	1528.4	3.613	7.27	8.3
172	172	19.02	36.585	3.57			004	26.244	18.988	184.6	.6020	1524.1	4.409	4.81	12.5
197*	197	17.73	36.382	3.35			004	26.414	17.695	169.1	.6464	1520.6	5.246	4.65	12.9
246	246	14.89	35.922	3.470			007	26.724	14.852	140.3	.7226	1512.2	6.959	3.30	18.2
296*	297	12.96	35.586	2.90			010	26.873	12.918	126.9	.7898	1506.3	8.819	2.60	23.0
345	346	12.05	35.466	2.91			011	26.959	12.003	119.4	.8505	1503.9	10.811	2.52	23.8
394*	395	10.76	35.256	3.07			014	27.037	10.710	112.4	.9077	1499.9	12.975	1.72	34.9
443	445	10.22	35.172	3.05			015	27.067	10.166	110.2	.9626	1498.7	15.333	2.17	27.6
493*	495	9.32	35.048	3.01			017	27.123	9.263	105.2	1.0168	1496.0	17.937	1.98	30.3
591*	594	7.93	34.881	3.13			020	27.211	7.8672	97.2	1.1167	1492.2	23.481	1.87	32.1
689	692	6.49	34.714	3.640			025	27.284	6.4242	90.0	1.2092	1488.0	29.544	1.81	33.1
788*	792	5.70	34.682	3.13			028	27.360	5.6292	82.8	1.2954	1486.4	36.074	1.76	34.1
886	891	5.29	34.715	3.65			029	27.437	5.2122	76.1	1.3740	1486.4	42.821	1.93	31.0
985*	991	5.315	34.854	4.342			027	27.544	5.2272	67.4	1.4457	1488.3	49.701	2.01	29.8
1083	1090	4.845	34.914	4.56			028	27.646	4.752	57.9	1.5077	1488.1	56.274	1.44	41.8
1182*	1190	4.595	34.936	4.83			028	27.692	4.4952	54.0	1.5637	1488.8	62.787	1.32	45.5
1280	1289	4.405	34.955	5.16			030	27.728	4.297	51.1	1.6157	1489.7	69.381	.99	60.5
1477*	1489	4.205	34.964	5.06			030	27.757	4.081	49.7	1.7162	1492.1	83.639	.86	69.7
1575*	1588	4.155	34.967	5.21			032	27.765	4.022	49.8	1.7656	1493.6	91.402	.78	76.8
1674*	1688	4.125	34.968	5.45			032	27.769	3.9822	50.2	1.8157	1495.1	99.797	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1576 16-11-70 23.5 14 19.0 N 61 6.0 W 21632

DEPTH	PRESS	TEMP	SAL	EX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.80	35.475	4.67			002	23.160	26.800	472.1	.0000	1539.5	.0002	3.05	19.7
49	49	26.71	35.578	4.66			002	23.266	26.698	464.0	.2249	1540.2	.5712	13.52	4.4
74	74	25.45	36.9612	4.39			001	24.705	25.433	327.92	.3241	1539.3	1.173	7.51	8.0
88	88	25.02	37.1062	4.30			001	24.9472	25.0002	305.4	.36862	1538.72	1.541	6.19	9.7
98	98	24.57	37.077	4.15			001	25.062	24.5482	294.9	.3987	1537.8	1.827	8.33	7.2
108*	108	23.95	37.114	4.04			001	25.276	23.926	274.8	.4273	1536.52	2.128	6.52	9.2
118	118	23.52	37.116	3.98			001	25.405	23.494	263.0	.4543	1535.6	2.4402	8.62	7.0
127*	127	22.38	36.952	3.74			002	25.611	22.353	243.6	.4771	1532.72	2.727	7.33	8.2
137	137	20.93	36.634	3.55			003	25.775	20.903	228.2	.5008	1528.82	3.047	4.15	14.5
147*	147	20.38	36.502	3.78				25.823	20.351	223.9	.5235	1527.32	3.3772	7.42	8.1
172	172	18.75	36.498	3.35			003	26.247	18.7182	184.3	.5748	1523.22	4.2092	5.06	11.9
196	196	17.21	36.235	3.29			005	26.428	17.1762	167.5	.6172	1518.92	5.0062	4.18	14.3
245	245	14.59	35.772	3.20			008	26.674	14.552	144.9	.6941	1511.0	6.7322	3.38	17.7
294	295	13.57	35.696	3.04			009	26.8332	13.527	130.9	.7621	1508.4	8.603	2.78	21.6
343	344	12.280	35.488	2.83			010	26.932	12.233	122.1	.8245	1504.7	10.636	2.33	25.8
392*2	393	11.500	35.381	2.74			012	26.998	11.448	116.6	.8833	1502.62	12.8532	2.48	24.2
441	443	10.360	35.211	2.70			016	27.073	10.305	109.8	.9392	1499.2	15.2362	2.06	29.2
492*	492	9.700	35.128	2.67			016	27.122	9.642	105.6	.9923	1497.5	17.774	1.93	30.32
5812	584	7.910	34.855	2.96			020	27.194	7.848	98.7	1.0859	1491.9	22.9102	1.85	32.4
6792	682	6.585	34.708	2.92			025	27.2662	6.520	91.6	1.1799	1488.22	28.976	1.85	32.4
776*	780	5.905	34.6982	3.06			027	27.347	5.834	84.2	1.2659	1487.12	35.390	1.81	33.1
874	879	5.500	34.738	3.39			028	27.4292	5.422	77.1	1.3456	1487.12	42.1392	2.14	28.0
972*	978	5.180	34.847	3.87			028	27.554	5.095	66.0	1.4164	1487.62	48.8292	1.67	35.9
1163	1177	4.590	34.933	4.41			029	27.690	4.491	54.0	1.5358	1488.5	61.8632	1.15	52.2
1366*	1376	4.300	34.954	4.62			031	27.7392	4.185	50.7	1.6400	1490.7	75.438	.93	64.8
1564	1577	4.155	34.962	4.72			031	27.761	4.023	50.0	1.7409	1493.42	90.661	.79	75.6
1763*	1778	4.110	34.968	4.78			033	27.771	3.959	50.8	1.8426	1496.62	108.103	.69	86.5
1962*	1980	4.110	34.968	4.77			033	27.771	3.939	52.6	1.9469	1499.9	128.1742	.76	79.4
2163*	2184	4.115	34.974	4.78			033	27.775	3.923	54.1	2.0558	1503.4	151.357	.00	.0

SHIP AN CRUISE 056 STATION 1577 DATE 17-11-70 GMT 1.5 LATITUDE 14 13.0 N LONGITUDE 61 5.0 W DEPTH 1975

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.84	35.493	4.69			002	23.161	26.840	472.1	.0000	1539.6	.0000	2.10	28.5
48	48	26.92	35.568	4.66			002	23.192	26.908	471.0	.2219	1540.6	.5560	13.29	4.5
73	73	25.35	36.756	4.33			001	24.581	25.333	339.6	.3234	1538.8	1.163	9.75	6.2
97	97	23.74	37.052	4.01			001	25.291	23.718	272.9	.3971	1535.7	1.795	6.49	9.2
107			37.025	3.87			001								
116	116	21.76	36.618	3.56			003	25.533	21.736	250.5	.4471	1530.6	2.338	11.76	5.1
126	126	19.81	36.491	3.51			003	25.967	19.786	209.4	.4701	1525.4	2.623	5.02	11.9
136*	136	19.66	36.538	3.45			003	26.042	19.634	202.6	.4908	1525.2	2.900	6.65	9.0
165	165	17.61	36.369	3.30			004	26.434	17.581	166.1	.5445	1519.7	3.721	3.88	15.5
194*	194	16.63	36.224	3.28			005	26.559	16.597	155.0	.5913	1517.1	4.579	3.52	17.0
242	242	14.78	35.891	3.09			007	26.724	14.742	140.1	.6625	1511.7	6.162	2.74	21.9
291*	292	13.68	35.710	2.99				26.820	13.637	132.0	.7296	1508.8	7.991	3.19	18.8
339	340	12.14	35.481	3.00			010	26.954	12.094	119.9	.7904	1504.1	9.950	2.31	26.0
388*	389	11.15	35.322	2.73			013	27.017	11.100	114.4	.8482	1501.3	12.103	2.57	23.4
436	438	9.83	35.123	2.73			015	27.096	9.7780	107.0	.9017	1497.1	14.362	1.81	33.1
485*	487	9.235	35.041	2.79			017	27.132	9.1790	104.2	.9538	1495.6	16.824	3.03	19.8
533	535	8.455	35.040	2.80			020	27.255	8.3960	92.6	1.0014	1493.4	19.305	-1.200	-49.9
582*	585	7.555	34.812	2.84			021	27.212	7.4950	96.5	1.0480	1490.5	21.982	1.630	36.8
627*	630	7.255	34.791	2.92			022	27.239	7.191	94.3	1.0913	1490.1	24.668	1.93	31.1
675	678	6.655	34.737	2.96			024	27.280	6.590	90.4	1.1360	1488.4	27.656	1.79	33.5
724	728	6.230	34.711	3.05			026	27.316	6.162	87.1	1.1798	1487.5	30.806	1.81	33.2
772	776	5.905	34.706	3.25			027	27.354	5.834	83.6	1.2211	1487.0	33.981	2.22	27.1
869.0	874.0	5.575	34.823	3.61			026	27.487	5.497	71.8	1.2971	1487.4	40.367	1.97	30.4
967	973	5.045	34.866	4.00			028	27.585	4.961	62.7	1.3637	1487.0	46.627	1.55	38.8
1161*	1169	4.555	34.936	4.44			029	27.697	4.457	53.3	1.4773	1488.3	58.980	1.05	57.1
1357	1367	4.330	34.951	4.62			030	27.733	4.216	51.2	1.5308	1490.6	72.379	.88	68.0
1552*	1564	4.195	34.954	4.70			031	27.750	4.064	51.0	1.6817	1493.3	87.496	.88	68.5
1747*	1762	4.130	34.967	4.75			032	27.768	3.980	51.0	1.7825	1496.4	104.638	.71	84.6
1942*	1960	4.110	34.965	4.740			033	27.768	3.941	52.7	1.8850	1499.6	124.157	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1578 17- 11 -70 4.42 14 8.0 N2 61 5.0 W 1683

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.79	35.562	4.64			002	23.229	26.790	465.6	.0000	1539.6	.000	3.67	16.3
48	48	26.95	35.851	4.65			002	23.396	26.938	451.6	.2158	1541.0	.533	8.07	7.4
72	72	26.59	36.336	4.61			002	23.876	26.572	406.8	.3190	1541.1	1.160	9.28	6.5
97	97	25.77	36.879	4.44			001	24.543	25.747	344.2	.4131	1540.3	1.965	10.64	5.5
106	106	24.91	36.949	4.28			001	24.861	24.886	314.3	.4428	1538.5	2.273	12.02	5.0
116*	116	23.20	36.873	3.88			002	25.315	23.175	271.4	.4722	1534.5	2.606	3.27	18.3
126	126	23.12	36.879	3.92			002	25.342	23.093	269.1	.4993	1534.5	2.942	8.50	7.1
135*	135	22.62	36.954	4.05			002	25.544	22.591	250.3	.5228	1533.5	3.255	8.29	7.2
165	165	19.48	36.658	3.39			003	26.181	19.449	190.5	.5892	1525.4	4.262	5.77	10.4
194	194	17.33	36.328	3.32			004	26.471	17.296	163.5	.6408	1519.3	5.205	4.36	13.8
242	242	14.88	35.933	3.14			007	26.735	14.842	139.2	.7138	1512.1	6.823	2.86	21.0
291	292	13.53	35.695	3.08			009	26.840	13.487	130.1	.7802	1508.3	8.631	3.02	19.8
340	341	11.65	35.366	2.90			012	26.958	11.605	119.2	.8416	1502.3	10.613	2.36	25.4
389*	390	10.63	35.212	2.83			014	27.026	10.581	113.2	.8989	1499.3	12.754	2.14	28.0
438	440	9.93	35.125	2.77			015	27.081	9.877	108.6	.9536	1497.5	15.074	2.01	29.8
488*	490	9.07	35.000	2.83			017	27.126	9.014	104.5	1.0073	1495.0	17.623	2.34	25.6
537	539	8.15	34.900	2.76			020	27.193	8.092	98.2	1.0573	1492.2	20.253	2.11	28.5
586*	589	7.18	34.781	2.89			022	27.242	7.121	93.3	1.1046	1489.1	22.978	.37	160.6
590*	593	7.16	34.776	2.90			023	27.2412	7.101	93.5	1.1084	1489.1	23.205	1.78	33.7
639	642	6.63	34.727	2.98			024	27.275	6.568	90.2	1.1537	1487.7	26.068	1.50	40.0
683	691	6.395	34.718	2.99			025	27.300	6.330	88.3	1.1978	1487.6	29.074	1.92	31.2
737	741	6.08	34.724	3.16			026	27.346	6.012	84.2	1.2404	1487.1	32.193	1.99	30.2
836*	841	5.59	34.776	3.45			027	27.448	5.515	75.0	1.3199	1486.9	38.599	2.12	28.2
934	940	5.130	34.857	3.90			027	27.568	5.049	64.1	1.3887	1486.7	44.835	1.59	37.8
1032*	1039	4.880	34.897	4.15			028	27.629	4.791	59.0	1.4497	1487.4	50.984	1.47	40.9
1130	1138	4.645	34.925	4.33			028	27.678	4.549	54.9	1.5061	1488.1	57.248	1.13	53.1
1327*	1337	4.370	34.945	4.58			030	27.724	4.258	51.9	1.6124	1490.3	70.669	1.02	58.7
1524*	1536	4.185	34.961	4.69			031	27.757	4.056	50.1	1.7140	1492.8	85.582	.80	75.4
1671*	1685	4.135	34.963	4.83			032	27.764	3.993	50.7	1.7891	1495.1	97.941	.00	.0

SHIP AN CRUISE 056 STATION 1579 DATE 17-11-70 GMT 6.7 LATITUDE 14 4.0 N LONGITUDE 61 7.0 W DEPTH 1922

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.79	35.605	5.04			002	23.261	26.790	462.5	.00001	1539.6	.000	3.57	16.8
49	49	26.89	35.859	4.73			002	23.421	26.878	449.3	.21911	1540.9	.5531	6.93	8.7
74	74	26.60	36.219	5.00			002	23.784	26.582	415.6	.32741	1541.1	1.229	11.26	5.3
98	98	25.34	36.960	4.51			001	24.738	25.317	325.7	.41661	1539.4	2.001	8.10	7.4
108	108	24.81	37.012	4.64			001	24.940	24.785	306.9	.44831	1538.4	2.335	13.54	4.4
118*	118	22.88	37.017	4.29			001	25.517	22.855	252.2	.47641	1533.9	2.659	6.78	8.9
128	128	22.34	36.997	3.99			001	25.657	22.313	239.3	.5010	1532.7	2.969	6.32	9.5
137*	137	21.73	36.913	3.72			002	25.765	21.702	229.2	.52221	1531.2	3.256	6.60	9.1
167	167	19.56	36.662	3.56			003	26.163	19.528	192.3	.58571	1525.6	4.237	6.27	9.6
196*	196	17.03	36.281	3.52			005	26.507	16.996	160.0	.63701	1518.4	5.185	3.72	16.1
245	245	15.08	35.942	3.33			007	26.697	15.041	142.9	.7116	1512.8	6.861	3.21	18.7
294*	295	13.28	35.620	3.52			009	26.834	13.237	130.6	.77901	1507.4	8.717	2.84	21.1
343	344	11.87	35.394	3.20			011	26.938	11.824	121.3	.84111	1503.1	10.741	2.10	28.5
392*	393	11.14	35.284	2.85			013	26.990	11.089	117.1	.89991	1501.2	12.955	2.60	23.1
442	444	9.83	35.096	3.17			015	27.075	9.777	109.1	.9569	1497.1	15.388	1.89	31.7
491*	493	9.37	35.050	2.77			016	27.116	9.313	105.8	1.0099	1496.2	17.927	1.98	30.3
540	542	8.400	34.904	3.07			019	27.158	8.341	101.9	1.0612	1493.2	20.639	2.09	28.7
689*	592	7.755	34.835	3.35			021	27.208	7.643	97.2	1.1103	1491.2	23.486	1.90	31.6
634*	637	7.090	34.768	3.25			023	27.244	7.0271	93.7	1.1536	1489.5	26.204	1.93	31.2
682	685	6.495	34.716	2.93			025	27.285	6.430	89.8	1.1980	1487.9	29.204	1.93	31.0
731*	735	6.065	34.701	3.17			027	27.329	5.997	85.6	1.2413	1487.0	32.348	1.89	31.8
780	784	5.835	34.721	3.21			027	27.374	5.764	81.7	1.2826	1486.9	35.556	2.23	26.9
877*	882	5.365	34.816	3.69			027	27.507	5.287	69.6	1.3566	1486.7	41.831	2.04	29.5
975	981	4.965	34.894	4.34			028	27.617	4.881	59.7	1.4206	1486.8	47.898	1.35	44.3
1072*	1079	4.760	34.914	4.22			028	27.656	4.668	56.6	1.4775	1487.6	53.891	1.27	47.2
1267	1276	4.395	34.945	4.52			029	27.722	4.289	51.6	1.5842	1489.4	66.680	1.00	59.8
1462*	1473	4.220	34.960	4.69			031	27.752	4.097	50.1	1.6844	1491.9	80.760	.87	69.3
1657*	1671	4.130	34.9681	5.52			032	27.768	3.989	50.1	1.7834	1494.9	96.661	.72	83.7
1852*	1868	4.110	34.968	5.10			033	27.771	3.950	51.6	1.8839	1498.1	114.867	.00	.0

SHIP AN CRUISE 056 STATION 1580 DATE 17- II -70 GMT 9.3 LATITUDE 13 54.0 N2 LONGITUDE 61 10.0 W DEPTH 1490

DEPTH	PRESS	TEMP	SAL	σ _t	Pθ ₄	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.71	35.641	4.59			002	23.314	26.710	457.5	.0000	1539.5	.000	4.65	12.9
49	49	26.69	36.025	4.64			001	23.609	26.678	431.2	.2136	1540.7	.531	10.34	5.8
74	74	25.90	36.801	4.54			001	24.444	25.882	352.8	.3118	1540.1	1.137	7.16	8.4
98	98	24.88	36.880	4.35			001	24.818	24.857	318.0	.3925	1538.3	1.843	12.49	4.8
108	108	23.35	36.923	4.00			001	25.309	23.326	271.7	.4221	1534.8	2.153	9.47	6.3
118*	118	22.42	36.936	4.06			001	25.588	22.395	245.5	.4480	1532.7	2.453	9.67	6.2
127	127	21.12	36.801	3.79			002	25.850	21.094	220.7	.4691	1529.3	2.717	2.72	22.1
137*	137	20.90	36.745	3.69			002	25.867	20.873	219.4	.4912	1528.8	3.016	7.58	7.9
167	167	17.22	36.195	3.18			005	26.395	17.191	169.7	.5498	1518.4	3.918	4.28	14.0
196*	196	15.87	35.982	3.07			006	26.550	15.838	155.6	.5972	1514.5	4.797	3.70	16.2
245	245	13.932	35.674	3.08			008	26.740	13.893	138.4	.6697	1508.8	6.424	2.48	24.2
294*	295	13.26	35.594	3.07			009	26.818	13.218	132.1	.7363	1507.3	8.263	3.14	19.1
343	344	11.27	35.259	2.94			012	26.946	11.225	120.1	.7985	1500.9	10.289	2.10	28.5
392*	393	10.88	35.237	2.87			013	27.000	10.830	115.9	.8567	1500.3	12.482	2.06	29.1
441	443	10.33	35.176	2.83			014	27.051	10.275	111.8	.9129	1499.0	14.2881	2.48	24.1
490*	492	9.11	35.007	2.80			016	27.125	9.054	104.7	.9663	1495.1	17.431	1.92	31.3
539	541	8.28	34.889	2.83			018	27.164	8.221	101.1	1.0171	1492.7	20.113	1.99	30.2
588*	591	7.41	34.778	3.082			021	27.207	7.350	96.9	1.0660	1490.0	22.941	1.61	37.2
610*	613	7.18	34.751	2.94			022	27.218	7.119	95.9	1.0873	1489.4	24.256	1.83	32.7
659	662	6.802	34.734	2.94			023	27.258	6.735	92.4	1.1338	1488.7	27.287	2.16	27.8
708*	712	6.19	34.702	3.01				27.314	6.124	86.9	1.1781	1487.1	30.396	1.86	32.3
757	761	5.92	34.712	3.23			026	27.357	5.851	83.2	1.2202	1486.8	33.559	1.72	34.8
854*	859	5.645	34.762	3.402			026	27.430	5.568	77.0	1.2985	1487.4	40.036	2.18	27.6
952	958	5.160	34.847	3.88			027	27.557	5.077	65.5	1.3690	1487.2	46.553	1.84	32.7
1049*	1056	4.840	34.907	4.17			028	27.641	4.7502	57.9	1.4294	1487.5	52.756	1.36	44.2
1147	1155	4.630	34.927	4.34			028	27.681	4.5332	54.8	1.4852	1488.3	59.054	1.31	46.0
1245*	1254	4.435	34.944	4.48			029	27.716	4.3302	52.0	1.5381	1489.2	65.557	1.00	60.2
1391*	1402	4.300	34.954	4.57			029	27.739	4.1832	50.9	1.6140	1491.12	75.861	.99	60.6
1489*	1501	4.250	34.967	4.64			030	27.755	4.1242	50.2	1.6642	1492.5	83.300	.00	.0

SHIP AN CRUISE 056 STATION 1581 DATE 17-11-70 GMT 12.1 LATITUDE 13 47.0 N LONGITUDE 61 11.0 W DEPTH 1602

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.03	35.785	4.59			002	23.320	27.030	456.9	.0000	1540.40	.0000	1.65	36.4
46	46	27.09	35.817	4.65			002	23.325	27.079	458.3	.2062	1541.30	.497	12.14	4.9
69	69	25.88	36.719	4.46			001	24.388	25.864	357.8	.3002	1539.9	1.036	9.38	6.4
92	92	24.82	37.119	4.20			001	25.017	24.799	298.8	.3759	1538.3	1.653	6.13	9.8
102	102	24.43	37.112	4.14			001	25.130	24.407	288.5	.4054	1537.5	1.945	9.57	6.3
111*	111	23.36	37.030	3.86			002	25.387	23.336	264.4	.4304	1535.0	2.217	7.57	7.9
120	120	22.76	37.009	3.65			002	25.545	22.734	249.6	.4536	1533.6	2.491	8.66	6.9
130*	130	21.71	36.922	3.62			002	25.778	21.683	227.8	.4775	1531.0	2.798	6.90	8.7
158	158	18.82	36.438	3.22			004	26.183	18.791	189.8	.5363	1523.1	3.656	6.64	9.0
186*	186	15.54	35.894	3.16			007	26.557	15.510	154.5	.5847	1513.2	4.503	3.69	16.3
234	234	13.48	35.555	3.14			009	26.742	13.446	137.7	.6552	1507.0	6.012	2.99	20.1
281*	282	11.94	35.305	3.02			011	26.856	11.902	127.5	.7179	1502.2	7.662	2.12	28.2
329	330	11.19	35.1910	3.00			012	26.908	11.147	123.3	.7784	1500.30	9.555	2.06	29.1
377*	378	11.39	35.309	2.92			012	26.963	11.341	119.5	.8371	1501.9	11.678	2.59	23.1
426	428	10.365	35.180	2.78			014	27.048	10.312	111.8	.8941	1498.9	14.024	1.87	32.1
474	476	9.515	35.038	2.78			016	27.083	9.459	103.80	.9474	1496.4	16.486	1.60	37.4
523	525	9.13	34.990	2.77			018	27.109	9.070	106.9	1.0006	1495.7	19.210	2.40	25.0
572*	575	8.09	34.869	2.97			021	27.178	8.029	100.2	1.0518	1492.5	22.082	2.48	24.2
605*	603	7.135	34.739	2.96			024	27.215	7.075	96.0	1.0794	1489.1	23.748	1.75	34.2
647	650	6.850	34.733	2.95			025	27.250	6.786	93.0	1.1242	1488.7	26.615	1.82	33.0
694*	697	6.505	34.721	2.96			026	27.287	6.438	89.7	1.1675	1488.10	29.597	1.85	32.4
742	746	6.315	34.743	3.14			026	27.330	6.245	86.1	1.2101	1488.2	32.736	2.04	29.3
789*	793	5.960	34.748	3.29			027	27.380	5.887	81.5	1.2498	1487.6	35.8610	1.75	34.2
837	842	5.735	34.758	3.38			028	27.416	5.659	78.3	1.2885	1487.5	39.094	1.92	31.2
885*	890	5.555	34.789	3.54			028	27.463	5.475	74.2	1.3254	1487.6	42.362	2.10	28.5
981	987	5.085	34.861	3.95			029	27.576	5.000	63.8	1.3923	1487.3	48.755	1.63	36.8
1175*	1183	4.510	34.937	4.44			030	27.702	4.411	52.7	1.5064	1488.3	61.315	1.03	58.0
1373*	1383	4.315	34.955	4.58			032	27.738	4.199	50.9	1.6101	1490.8	74.904	.91	65.9
1573*	1586	4.165	34.960	4.68			033	27.758	4.032	50.4	1.7126	1493.6	90.453	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1582 17- 11 -70 15.4 13 35.0 N. 61 10.0 W 1789

DEPTH	PRESS	TEMP	SAL	BX	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.01	35.840	4.64			002	23.368	27.010	452.3	.0000	1540.4	.000	1.50	40.1
47	47	27.03	35.867	4.71			002	23.366	27.068	454.4	.2088	1541.3	.514.	10.82	5.5
70	70	26.47	36.725	5.16			001	24.207	26.453	375.2	.3044	1541.3	1.076	11.24	5.3
94	94	24.21	37.059	5.20			001	25.157	24.189	285.6	.3839	1536.8	1.730	8.08	7.4
103	103	23.46	37.004	3.82			001	25.338	23.437	268.7	.4089	1535.1	1.982	8.62	7.0
113*	113	22.64	36.993	4.00			002	25.568	22.616	247.2	.4348	1533.2	2.268	11.79	5.1
122	122	20.72	36.802	3.69			002	25.960	20.696	210.0	.4555	1528.2	2.516	7.73	7.8
132	132	18.94	36.425	3.34			005	26.143	18.916	192.8	.4757	1523.0	2.779	6.50	9.2
160	160	16.74	36.186	3.18			005	26.503	16.713	159.1	.5252	1516.8	3.513	3.28	18.3
188*	188	15.33	35.883	3.11			007	26.585	15.350	151.9	.5690	1512.7	4.292	3.65	16.4
235	235	13.30	35.532	3.12			009	26.762	13.266	135.8	.6369	1506.4	5.757	3.45	17.4
282*	283	11.44	35.264	2.95			012	26.918	11.403	121.4	.6977	1500.5	7.361	2.66	22.6
329	330	9.85	35.009	3.13			014	27.004	9.811	113.4	.7532	1495.2	9.097	2.20	27.3
376	377	8.97	34.895	3.01			017	27.060	8.928	108.4	.8057	1492.6	10.993	1.94	30.9
423	425	8.785	34.916	3.09			018	27.106	8.738	104.9	.8562	1492.7	13.061	1.74	34.5
470	472	8.80	34.966	2.95			018	27.143	8.747	102.3	.9052	1493.6	15.308	2.22	27.0
517	519	7.835	34.847	2.84			021	27.199	7.781	97.0	.9524	1490.6	17.697	1.92	31.2
564*	567	7.130	34.767	3.00			023	27.238	7.074	93.3	.9974	1488.5	20.196	2.42	24.8
551*	553	7.245	34.761	3.19			023	27.217	7.190	95.2	.9851	1488.7	19.490	1.89	31.7
598	601	6.920	34.757	2.99			024	27.259	6.861	91.5	1.0293	1488.2	22.097	1.80.	33.4
645*	648	6.545	34.738	3.08			025	27.295	6.483	88.3	1.0719	1487.5	24.816	1.74	34.6
692	696	6.210	34.724	3.46			026	27.329	6.145	85.4	1.1130	1486.9	27.642	1.64	36.5
787*	791	5.845	34.744	3.40			027	27.391	5.773	80.2	1.1923	1487.1	33.660	2.09	28.7
883	888	5.360	34.810	4.08			028	27.503	5.282	70.0	1.2651	1486.8	39.884	1.99	30.1
979*	985	4.990	34.883	4.12			028	27.605	4.905	60.9	1.3285	1487.0	45.937	1.63	36.9
1076	1083	4.710	34.922	4.09			029	27.668	4.619	55.4	1.3855	1487.5	51.948	1.15	52.1
1273	1282	4.425	34.945	4.20				27.718	4.318	52.0	1.4924	1489.6	64.851	1.03	58.3
1474*	1486	4.230	34.962	4.65			031	27.753	4.106	50.2	1.5964	1492.2	79.539	.79	75.6
1683*	1697	4.150	34.963	4.89			033	27.762	4.006	51.0	1.7035	1495.4	96.970	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1583 17- 11 -70 18.2 13 29.0 N 61 12.0 W 2130

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.81	35.673	5.00			002	23.306	26.810	458.2	.0000	1539.7	.0000	3.62	16.6
49	49	26.84	35.904	4.64			002	23.471	26.828	444.5	.2169	1540.9	.5470	10.96	5.5
74	74	25.82	36.722	4.52			001	24.409	25.802	356.0	.3172	1539.9	1.164	13.05	4.6
98	98	21.78	36.840	3.68			002	25.696	21.760	234.3	.3883	1530.6	1.772	5.81	10.3
108	108	21.04	36.703	3.55			003	25.797	21.018	225.0	.4113	1528.7	2.015	8.79	6.8
118*	118	19.62	36.517	3.42			003	26.036	19.598	202.4	.4328	1524.8	2.263	5.07	11.8
128	128	19.28	36.501	3.31			004	26.113	19.256	195.5	.4528	1524.0	2.515	5.22	11.5
133*	138	18.78	36.439	3.23			004	26.194	18.755	188.1	.4720	1522.7	2.777	6.47	9.3
167	167	15.82	35.985	3.17			006	26.564	15.793	153.4	.5218	1513.9	3.547	2.82	21.30
197*	197	15.04	35.838	3.40			007	26.626	15.009	148.2	.5672	1511.8	4.394	3.40	17.6
246	246	13.16	35.524	3.05			009	26.784	13.125	134.0	.6367	1506.1	5.964	3.46	17.4
295*	296	11.54	35.328	2.88			012	26.949	11.501	118.8	.6990	1501.1	7.684	2.55	23.6
344	345	10.83	35.269	2.78			014	27.034	10.786	111.5	.7558	1499.3	9.542	2.26	26.5
394*	395	9.92	35.145	2.79			016	27.098	9.873	106.0	.8106	1496.7	11.612	2.09	28.7
443	445	8.865	34.984	3.00			018	27.147	8.815	101.5	.8617	1493.4	13.810	1.69	35.5
492*	494	8.220	34.892	2.91			020	27.176	8.167	99.1	.9112	1491.7	16.186	1.81	33.2
541	543	7.04	34.709	3.07			023	27.205	6.987	95.9	.9594	1487.7	18.737	10.49	40.2
591			34.661	2.97			024								
641*	644	6.16	34.615	3.02			026	27.249	6.101	92.0	1.0540	1485.7	24.478	1.94	30.9
690	694	6.275	34.703	3.040			026	27.304	6.210	87.8	1.0984	1487.1	27.513	2.15	27.9
739*	743	5.810	34.701	3.17			028	27.362	5.743	82.3	1.1405	1486.1	30.596	1.82	33.0
788	792	5.620	34.724	3.30			028	27.404	5.549	78.6	1.1802	1486.1	33.715	2.23	26.9
837*	892	5.180	34.829	3.69			029	27.540	5.103	66.3	1.2526	1486.1	39.920	1.62	37.1
1084	1091	4.695	34.921	4.57			029	27.669	4.603	55.4	1.3736	1487.5	52.082	1.16	51.9
1281*	1290	4.430	34.948	4.52			030	27.720	4.322	52.0	1.4805	1489.8	65.061	.97	61.3
1478	1490	4.245	34.956	4.65			031	27.747	4.120	50.9	1.5830	1492.3	79.6140	.86	69.8
1675*	1689	4.155	34.963	4.71			032	27.762	4.012	51.0	1.6846	1495.3	96.125	.77	78.2
1872*	1889	4.115	34.965	4.73			033	27.768	3.953	52.1	1.7875	1498.4	114.961	.75	79.6
2119*	2139	4.100	34.969	4.75			034	27.772	3.913	53.8	1.9202	1502.5	142.320	.00	.0

SHIP AN CRUISE 056 STATION 1584 DATE 17- II -70 GMT 20.5 LATITUDE 13 24.0 N LONGITUDE 61 15.0 W DEPTH 1500

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH85	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.88	35.606	4.61			003	23.233	26.880	465.1	.0000	1539.8	.000	2.61	23.0
48	48	26.90	35.703	4.59			002	23.300	26.888	460.7	.2178	1540.7	.544	8.45	7.1
73	73	26.20	36.139	4.46			002	23.850	26.182	409.2	.3268	1540.1	1.210	14.10	4.3
97.3	973	22.82	36.779	3.77			003	25.354	22.799	266.9	.4081	1533.1	1.897	9.33	6.4
107	1073	21.85	36.772	3.70			003	25.625	21.828	241.4	.4336	1530.9	2.163	9.14	6.33
116*	116	20.74	36.676	3.49			003	25.858	20.717	219.4	.4545	1528.0	2.400	4.60	13.0
126	1263	20.43	36.647	3.39			004	25.920	20.405	213.9	.4762	1527.3	2.670	8.08	7.4
136*	1363	19.40	36.554	3.40			004	26.122	19.374	194.9	.4967	1524.5	2.945	5.81	10.3
165	1653	17.33	36.259	3.27			006	26.418	17.301	167.5	.5495	1518.7	3.753	4.84	12.4
194*	1943	15.59	35.988	3.16			008	26.618	15.559	149.0	.5957	1513.6	4.598	1.77	33.8
243	2433	14.64	35.750	3.10			008	26.646	14.602	147.5	.6687	1511.1	6.233	4.11	14.5
292*	2933	12.50	35.485	2.97			012	26.886	12.459	125.2	.7359	1504.6	8.064	2.90	20.7
341	3423	10.66	35.178	2.91			015	26.994	10.617	115.2	.7951	1498.6	9.982	2.00	30.0
390*	3913	10.54	35.215	2.78			015	27.044	10.491	111.5	.8510	1499.0	12.077	2.41	24.9
439	4413	9.12	34.992	2.85			018	27.112	9.070	105.0	.9044	1494.3	14.345	1.89	31.7
488*	4903	8.56	34.930	2.87			020	27.153	8.506	101.5	.9553	1493.0	16.768	1.79	33.5
538	5403	8.010	34.868	2.84			021	27.189	7.953	98.5	1.0057	1491.6	19.420	1.82	32.9
587*	590	6.390	34.700	2.94			025	27.219	6.832	95.1	1.0535	1487.9	22.180	1.46	41.2
614*	617	6.770	34.635	2.94			025	27.231	6.710	94.2	1.0792	1487.8	23.769	1.81	33.1
663	6663	6.395	34.680	2.95			026	27.270	6.332	90.8	1.1249	1487.1	26.764	1.86	32.3
713*	7173	6.060	34.679	3.07			028	27.313	5.994	86.9	1.1697	1486.6	29.929	1.56	38.5
762	7663	6.035	34.714	3.42			028	27.343	5.964	84.7	1.2121	1487.4	33.142	2.00	29.9
811*	8153	5.640	34.713	3.29			029	27.392	5.567	80.0	1.2528	1486.6	36.431	2.23	26.9
860	8653	5.545	34.787	3.49			029	27.463	5.468	73.9	1.2908	1487.1	39.696	2.21	27.1
958*	9643	5.015	34.871	3.97			029	27.593	4.932	61.8	1.3580	1486.7	45.945	1.64	36.5
1057	1064	4.750	34.916	4.23			030	27.659	4.660	56.2	1.4170	1487.3	52.047	1.18	50.7
1155*	1163	4.605	34.930	4.37			030	27.686	4.507	54.3	1.4717	1488.4	58.269	1.05	57.1
1253*	1262	4.495	34.938	4.42			031	27.705	4.389	53.3	1.5249	1489.6	64.872	1.13	52.9
1450*	1461	4.255	34.964	4.63			032	27.752	4.133	50.1	1.6280	1491.9	79.187	.00	.0

SHIP AN CRUISE 056 STATION 1585 DATE 17- 11 -70 GMT 22.8 LATITUDE 13 16.0 N LONGITUDE 61 21.0 W DEPTH 1538

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.89	35.669	4.65			003	23.278	26.890	460.90	.00000	1539.9	.0000	3.74	16.0
49	49	26.69	35.821	4.75			002	23.456	26.678	445.90	.21790	1540.4	.5490	10.37	5.8
74	74	25.50	36.439	4.70			002	24.295	25.483	366.90	.31970	1538.8	1.177	12.56	4.8
98	98	22.41	36.798	3.70			003	25.486	22.389	254.30	.3945	1532.2	1.819	7.53	8.0
108	108	21.75	36.782	3.60			003	25.660	21.728	238.10	.41920	1530.6	2.079	7.99	7.5
118*	118	20.90	36.732	3.70			003	25.857	20.876	219.60	.44220	1528.5	2.345	7.82	7.7
127	127	19.91	36.605	3.52				26.027	19.886	203.70	.46130	1525.8	2.584	6.10	9.8
137*	137	19.25	36.526	3.56			004	26.140	19.224	193.3	.4812	1524.1	2.854	5.08	11.9
167	167	17.76	36.335	3.94			005	26.371	17.730	172.1	.53630	1520.1	3.707	4.89	12.3
196*	196	16.24	36.128	3.68			006	26.576	16.207	153.20	.5837	1515.8	4.585	3.95	15.2
245	245	13.91	35.740	3.29			008	26.795	13.873	133.20	.65430	1508.8	6.168	3.14	19.1
294*	295	12.02	35.415	3.00			011	26.926	11.980	121.30	.7170	1502.9	7.895	2.29	26.2
343	344	10.85	35.214	3.04			014	26.988	10.806	115.9	.7754	1499.3	9.803	2.26	26.5
392*	393	9.72	35.038	2.89			016	27.049	9.674	110.50	.8313	1495.8	11.906	1.90	31.6
441	443	9.15	34.970	3.12			017	27.090	9.099	107.10	.8849	1494.4	14.199	1.98	30.3
490*	492	8.43	34.881	3.05			019	27.135	8.376	103.10	.9368	1492.4	16.676	1.98	30.3
539	541	7.62	34.781	2.95			025	27.178	7.564	99.0	.98670	1490.0	19.311	1.81	33.2
637*	640	6.76	34.722	3.16			025	27.254	6.593	92.4	1.0812	1488.2	25.005	1.60	37.5
685*	6890	6.41	34.697	3.13			026	27.281	6.345	90.0	1.1262	1487.6	28.068	1.75	34.3
735	7390	5.97	34.667	3.24			028	27.315	5.902	86.9	1.1700	1486.6	31.259	1.60	37.5
784*	7880	5.82	34.682	3.25			028	27.345	5.749	84.4	1.2123	1486.8	34.562	2.05	29.2
833	8380	5.740	34.743	3.33			028	27.404	5.664	79.4	1.2528	1487.4	37.925	2.32	25.9
931*	9370	5.250	34.852	4.07				27.550	5.168	66.0	1.3247	1487.2	44.418	1.82	32.9
1029	10360	4.835	34.903	4.46			029	27.633	4.797	58.6	1.3863	1487.4	50.618	1.40	42.8
1127*	11350	4.670	34.927	4.47			030	27.677	4.574	55.1	1.4426	1488.2	56.852	1.23	48.0
1225	12340	4.465	34.940	4.40			031	27.708	4.382	52.7	1.4960	1489.0	63.309	1.11	54.10
1323*	13330	4.365	34.951	4.45			031	27.730	4.254	51.3	1.5475	1490.2	70.069	1.01	59.30
1421*	14320	4.265	34.957	4.64			032	27.745	4.145	50.5	1.5980	1491.4	77.201	.90	66.90
1519*	15310	4.205	34.961	4.65			032	27.755	4.077	50.4	1.6480	1492.8	84.777	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1586 18- 11 -70 1.2 13 5.0 N 61 20.0 W 1882

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.86	35.666	4.59			002	23.285	26.860	460.2	.0000	1539.8	.000	4.03	14.9
49	49	26.83	35.935	4.57			002	23.497	26.818	442.0	.21682	1540.9	.544	13.31	4.5
73	73	24.27	36.657	4.02			002	24.834	24.254	315.4	.30792	1536.2	1.094	10.12	5.9
87	87	23.09	36.788	3.59			003	25.282	23.071	273.3	.34922	1533.7	1.431	8.77	6.8
97	97	22.26	36.788	3.41			003	25.521	22.240	250.9	.37552	1531.8	1.678	9.77	6.1
107*	107	20.90	36.681	3.44			003	25.819	20.879	222.9	.39932	1528.3	1.926	6.55	9.2
117	117	20.21	36.603	3.44			004	25.950	20.187	210.7	.42112	1526.5	2.175	5.94	10.1
127*	127	19.71	36.574	3.26			004	26.056	19.586	200.9	.4418	1525.3	2.433	6.27	9.6
136		19.25		3.31											
146*	146	18.29	36.393	3.11			005	26.283	18.264	179.8	.4781	1521.4	2.940	5.31	11.3
171	171	16.73	36.187	3.20			006	26.495	16.751	160.3	.5208	1517.1	3.631	4.53	13.2
195*	195	15.47	35.980	3.20			007	26.639	15.439	147.0	.5579	1513.3	4.324	3.39	17.7
245	245	13.92	35.749	3.12			008	26.800	13.883	132.7	.6282	1508.8	5.902	2.88	20.8
294*	295	12.27	35.454	2.98			011	26.907	12.230	123.2	.6912	1503.8	7.640	2.85	21.1
344	345	10.495	35.165	2.88			014	27.013	10.452	113.3	.7507	1498.0	9.581	2.14	28.0
393*	394	9.495	35.013	2.87			017	27.067	9.449	108.6	.8054	1495.0	11.648	2.16	27.8
443	445	8.585	34.897	2.86			020	27.123	8.536	103.5	.8588	1492.3	13.937	1.75	34.4
492*	494	7.930	34.810	2.89			021	27.155	7.878	100.7	.9092	1490.5	16.354	1.99	30.2
541*	543	7.130	34.719	2.93			024	27.200	7.075	96.4	.9579	1488.1	18.934	1.79	33.5
591	594	6.800	34.711	2.97			025	27.240	6.742	93.1	1.0056	1487.6	21.703	1.78	33.8
640*	643	6.560	34.719	2.97			026	27.278	6.499	89.9	1.0508	1487.4	24.564	1.43	42.1
689	692	6.330	34.707	3.072			027	27.300	6.265	88.2	1.0947	1487.3	27.568	1.91	31.5
783*	792	5.735	34.726	3.252			029	27.324	5.664	80.0	1.1787	1486.6	33.926	2.14	28.0
886	891	5.370	34.827	3.672			028	27.516	5.291	68.9	1.2524	1486.9	40.239	1.79	33.5
1083*	1090	4.655	34.925	4.332			030	27.677	4.563	54.6	1.3752	1487.4	52.537	1.16	51.9
1280	1289	4.365	34.948	4.592			031	27.727	4.258	51.1	1.4804	1489.5	65.299	.99	60.3
1477*	1489	4.135	34.963	4.682			033	27.758	4.071	49.7	1.5808	1492.1	79.546	.79	75.7
1673*	1687	4.125	34.965	4.692			033	27.767	3.983	50.4	1.6801	1495.1	95.679	.73	81.7
1870	1887	4.105	34.967	4.77			034	27.770	3.943	51.8	1.7822	1498.3	114.335	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1587 18- II -70 4.7 12 52.0 N 61 24.0 W 1794

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.89	35.936	4.92			002	23.479	26.890	441.7	.0000	1540.2	.0003	2.22	27.1
49	49	26.90	35.992	4.55			002	23.518	26.888	440.0	.2119	1541.1	.541	15.04	4.0
74	74	23.03	36.791	3.56			003	25.302	23.014	270.9	.3010	1533.3	1.0753	8.33	7.2
89	89	21.76	36.738	3.39			003	25.624	21.742	240.8	.3395	1530.3	1.395	8.16	7.3
98	98	21.01	36.709	3.43			003	25.810	20.990	223.4	.3605	1528.4	1.5953	5.35	11.2
108*	108	20.69	36.707	3.40			003	25.896	20.669	215.6	.3825	1527.8	1.8283	5.88	10.2
118	118	20.11	36.639	3.48			003	26.000	20.087	206.0	.4037	1526.3	2.073	6.23	9.6
128*	128	19.37	36.539	3.24			004	26.119	19.346	195.0	.4238	1524.3	2.326	7.03	8.5
138	138	18.46	36.432	3.18			005	26.270	18.435	180.8	.4427	1521.8	2.583	5.67	10.6
148*	148	17.82	36.350	3.23			005	26.367	17.794	171.8	.4604	1520.0	2.843	5.38	11.1
172	172	16.14	36.097	3.21			006	26.576	16.112	152.5	.4995	1515.1	3.481	3.89	15.4
197*	197	15.22	35.966	3.33			006	26.685	15.189	142.7	.5366	1512.5	4.181	3.50	17.1
246	246	13.15	35.610	3.04			010	26.853	13.115	127.5	.6031	1506.2	5.684	2.43	24.7
295*	296	11.92	35.389	2.95			012	26.925	11.880	121.4	.6645	1502.5	7.383	2.42	24.7
345	346	10.71	35.195				014	26.998	10.667	114.9	.7239	1498.8	9.331	2.24	26.8
394*	395	9.72	35.051	3.13			016	27.059	9.673	109.6	.7792	1495.9	11.427	1.59	37.8
443	445	9.150	34.961	2.96			018	27.083	9.099	107.8	.8328	1494.5	13.731	2.11	28.4
492*	494	8.365	34.869	2.88			019	27.136	8.311	103.0	.8849	1492.2	16.226	1.97	30.5
542	544	7.715	34.802	2.87			021	27.181	7.659	98.9	.9357	1490.5	18.925	1.79	33.5
591	594	7.30	34.772	2.95			023	27.218	7.240	95.8	.9838	1489.6	21.721	2.39	25.1
641*	644	6.34	34.694	2.94			025	27.288	6.280	88.7	1.0303	1486.6	24.659	1.36	44.2
690	694	6.115	34.680	3.21			027	27.306	6.051	87.3	1.0737	1486.5	27.631	1.78	33.7
739*	743	5.860	34.688	3.13			028	27.345	5.793	83.9	1.1160	1486.2	30.736	1.93	31.1
783	792	5.790	34.741	3.35			028	27.396	5.718	79.7	1.1564	1486.8	33.907	2.02	29.7
985*	991	4.980	34.890	4.12			029	27.612	4.895	60.3	1.2956	1487.0	46.401	1.26	47.6
1182		4.555		4.40			030								
1380*	1390	4.280	34.954	4.46			032	27.741	4.164	50.5	1.5168	1490.8	72.942	.94	64.1
1577*	1590	4.155	34.967	4.74			033	27.765	4.022	49.8	1.6168	1493.6	88.173	.76	78.5
1774*	1789	4.110	34.969	4.79			033	27.771	3.958	50.8	1.7172	1496.7	105.531	.00	.0

SHIP AN CRUISE 056 STATION 1588 DATE 18-11-70 GMT 17.0 LATITUDE 12 47.0 N7 LONGITUDE 62 29.0 W DEPTH 2977

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.66	35.986	4.70			002	23.590	26.660	431.1	.0000	1539.7	.000	2.33	25.8
49	49	26.68	36.057	4.75			002	23.637	26.668	428.6	.2067	1540.7	.527	12.25	4.9
74	74	24.97	36.911	4.53			002	24.814	24.953	317.4	.3001	1538.1	1.098	10.27	5.8
98	98	21.90	36.764	3.39			003	25.604	21.880	243.0	.3676	1530.8	1.682	7.24	8.3
123	123	20.02	36.617	3.30			003	26.007	19.996	205.5	.4239	1526.1	2.313	7.13	8.4
147*	147	17.83	36.371	3.32			004	26.381	17.804	170.5	.4692	1520.0	2.935	4.57	13.1
197	197	15.37	36.015	3.34			006	26.689	15.339	142.4	.5478	1513.0	4.303	3.73	16.1
246*	246	12.74	35.539	3.44			010	26.880	12.705	124.7	.6136	1504.7	5.787	2.90	20.7
295	295	10.51	35.135	3.00			014	26.987	10.473	114.6	.6726	1497.2	7.418	1.95	30.8
393*	394	8.93	34.904	2.88			018	27.074	8.886	107.5	.7821	1492.7	11.268	1.80	33.4
491	493	7.87	34.788	2.89			021	27.147	7.818	101.4	.8851	1490.2	15.932	1.73	34.6
590*	593	7.04	34.723	2.95			024	27.216	6.981	95.6	.9834	1488.5	21.374	1.82	32.9
688	692	6.35	34.705	3.22			026	27.295	6.285	88.7	1.0744	1487.4	27.335	1.75	34.3
786*	790	5.73	34.695	3.17			029	27.367	5.659	82.2	1.1588	1486.5	33.718	2.04	29.4
885	890	5.490	34.8037	3.88			029	27.482	5.411	72.3	1.2360	1487.3	40.325	2.00	30.0
983*	989	5.105	34.877	3.95			029	27.587	5.019	62.9	1.3029	1487.5	46.727	1.76	34.1
1081	1088	4.715	34.915	4.51			030	27.662	4.623	56.0	1.3617	1487.6	52.961	1.63	36.8
1179	1187	4.465	34.951	4.70			030	27.727	4.366	50.4	1.4144	1488.2	59.081	.77	77.8
1275*	1287	4.350	34.948	4.63			030	27.729	4.243	50.9	1.4651	1489.4	65.497	.97	62.1
1376	1386	4.285	34.957	4.64			031	27.743	4.169	50.3	1.5153	1490.8	72.353	.84	71.7
1572*	1585	4.195	34.962	4.74			033	27.757	4.062	50.6	1.6155	1493.7	87.571	.79	76.1
1769	1784	4.135	34.964	4.99			033	27.765	3.983	51.5	1.7174	1496.8	105.137	.747	81.3
1965*	1983	4.135	34.969	5.10			033	27.769	3.963	52.9	1.8212	1500.1	125.142	.78	76.8
2162	2183	4.115	34.973	4.81			034	27.774	3.923	54.1	1.9283	1503.3	147.952	.61	98.9
2358*	2382	4.140	34.964	4.79			034	27.764	3.926	56.9	2.0388	1506.8	173.776	.83	72.0
2555	2582	4.145	34.975	4.97			034	27.772	3.910	57.9	2.1538	1510.2	202.970	.68	87.9
2752	2783	4.165	34.968	4.82			035	27.765	3.907	60.5	2.2725	1513.6	235.540	.83	71.9
2850*	2882	4.175	34.973	4.78			035	27.768	3.905	61.1	2.3331	1515.3	253.108	.51	116.7
2948*	2982	4.200	34.963	4.83			035	27.757	3.918	63.1	2.3951	1517.1	271.697	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1589 19- II -70 8.7 12 37.0 N 64 22.0 W 3383

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.43	34.885	4.68			004	22.834	26.430	503.3	.00003	1538.0	.0003	7.88	7.6
49	49	26.43	36.101	4.53			002	23.749	26.418	417.9	.2214	1540.2	.5163	6.83	8.8
74	74	25.80	36.307	4.48			002	24.102	25.782	385.3	.3219	1539.4	1.144	12.78	4.7
98	98	22.83	36.758	3.59			003	25.335	22.809	268.7	.4006	1533.2	1.820	8.77	6.8
123	123	20.24	36.595	3.39			005	25.932	20.216	212.7	.4611	1526.7	2.494	7.34	8.2
147*	147	18.33	36.467	3.33			004	26.330	18.303	175.4	.5078	1521.6	3.136	4.59	13.1
197	197	15.50	35.983	3.32			007	26.639	15.468	147.1	.5889	1513.43	4.547	3.52	17.1
246	246	13.56	35.6623	3.13			009	26.808	13.524	131.8	.6576	1507.6	6.099	4.92	12.2
295	296	11.44	35.579	2.96			013	27.163	11.401	98.6	.7144	1501.1	7.654	-1.61	37.2
393*	394	9.63	35.014	3.04			017	27.045	9.584	110.8	.8176	1495.5	11.330	2.003	30.0
491	493	8.39	34.879	2.82			018.3	27.1393	8.336	102.7	.9229	1492.3	16.090	1.84	32.5
590	593	7.32	34.775	2.87			020	27.217	7.260	95.9	1.0219	1489.7	21.571	2.01	29.8
688	691	6.28	34.717	3.07			028	27.314	6.215	86.8	1.1121	1487.1	27.474	2.12	28.3
786*	790	5.74	34.780	3.44			029	27.433	5.669	76.1	1.1926	1486.7	33.547	2.16	27.7
885	8903	5.293	34.871	3.92			029.3	27.5603	5.212	64.6	1.2629	1486.6	39.557	1.87	32.0
983*	989	4.93	34.9313	4.12			029	27.650	4.845	56.6	1.3228	1486.8	45.299	1.46	41.0
1081	1088	4.61	34.944	4.40			029	27.697	4.519	52.5	1.3769	1487.2	51.026	1.28	47.1
1179*	1187	4.44	34.963	4.65			029	27.731	4.341	50.0	1.4276	1488.1	56.925	.84	71.1
1250*	1289	4.330	34.956	4.68			029	27.737	4.223	50.1	1.4787	1489.3	63.391	1.12	53.5
1378	1388	4.265	34.978	4.75			030	27.762	4.1493	48.6	1.5276	1490.7	70.077	.75	80.3
1575*	1588	4.155	34.968	4.79			031	27.766	4.022	49.7	1.6255	1493.6	84.992	.823	73.5
1772	1787	4.090	34.973	4.94			031	27.777	3.938	50.3	1.7252	1496.6	102.207	.73	81.7
1969*	1987	4.065	34.973	4.96			031	27.779	3.894	51.7	1.8271	1499.9	121.869	.75	79.5
2165	2186	4.060	34.977	4.99			031	27.783	3.868	53.1	1.9312	1503.2	144.111	.71	84.8
2362*	2386	4.080	34.978	5.03			032	27.782	3.867	55.0	2.0394	1506.6	169.410	.72	83.2
2559	2586	4.085	34.975	5.03			031	27.779	3.850	57.0	2.1516	1510.0	197.957	.76	79.4
2756*	2787	4.110	34.978	5.03			031	27.779	3.853	58.9	2.2678	1513.5	229.896	.75	80.5
2953*	2987	4.130	34.976	5.06			030	27.775	3.849	61.1	2.3882	1516.9	265.441	.84	71.9
3150*	3188	4.145	34.982	5.03			031	27.778	3.841	62.6	2.5123	1520.4	304.632	.00	.0

SHIP AN CRUISE 056 STATION 1590 DATE 20- 11 -70 GMT 3.4 LATITUDE 12 39.0 N LONGITUDE 61 33.0 W DEPTH 1490

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.97	35.784	4.83			002	23.339	26.970	455.1	.0000	1540.2	.000	2.61	23.0
48	48	26.87	35.830	4.55			002	23.405	26.858	450.7	.2131	1540.8	.532	11.41	5.3
73	73	25.29	36.525	3.94			002	24.425	25.273	354.5	.3140	1538.4	1.141	14.71	4.12
87	87	22.94	36.860	3.66			002	25.380	22.921	264.0	.3574	1533.4	1.492	8.23	7.3
97	97	21.89	36.742	3.37			003	25.590	21.870	244.4	.3829	1530.8	1.732	7.39	8.1
107*	1072	21.16	36.695	3.34			003	25.758	21.138	228.7	.4066	1529.0	1.980	8.48	7.1
-21172	1172	20.14	36.625	3.28			003	25.981	20.117	207.7	.4286	1526.3	2.231	3.95	15.2
127*	1272	19.83	36.575	3.37			004	26.025	19.806	203.9	.4492	1525.6	2.489	7.17	8.4
1362	1362	19.24	36.559	3.23			004	262168	19.214	190.6	.4670	1524.1	2.729	6.02	10.0
146*2	1462	18.33	36.398	3.15			005	26.277	18.304	180.4	.4857	1521.5	2.998	4.69	12.8
1712	1712	17.28	36.272	3.18			005	26.440	17.250	165.6	.5291	1518.7	3.702	4.67	12.8
195*2	1952	15.91	36.051	3.15			007	26.594	15.878	151.5	.5674	1514.7	4.417	3.87	15.5
2452	2452	13.54	35.654	3.03			009	26.806	13.504	132.0	.6386	1507.5	6.012	2.56	23.5
294*2	2952	12.37	35.455	2.93			011	26.889	12.329	125.0	.7019	1504.1	7.759	2.87	20.9
3442	3452	10.440	35.130	3.10			014	26.996	10.397	114.9	.7623	1497.8	9.728	2.17	27.7
394*2	395	9.3002	34.952	2.87			017	27.051	9.255	109.9	.8188	1494.2	11.868	1.90	31.5
4442	4462	8.7052	34.884	3.03			020	27.094	8.656	106.4	.8733	1492.7	14.208	2.01	29.9
494*2	4962	8.0752	34.8222	2.83			021	27.143	8.022	102.1	.9257	1491.1	16.733	2.83	21.2
488*2	4912	8.2302	34.839	2.83			020	27.133	8.127	103.1	.9206	1491.6	16.472	1.79	33.5
538	540	7.6702	34.777	2.842			022	27.168	7.6142	100.0	.9707	1490.2	19.115	1.80	33.4
587*	5902	7.3302	34.763	2.852			023	27.206	7.2702	96.8	1.0193	1489.7	21.922	1.94	30.9
636	639	6.775	34.720	2.932			025	27.250	6.7132	92.8	1.0661	1488.2	24.861	1.95	30.8
685*	688	6.385	34.712	2.992			027	27.296	6.3202	88.6	1.1109	1487.5	27.899	1.93	31.1
734	733	6.040	34.713	3.302			028	27.342	5.9722	84.4	1.1536	1486.9	31.014	2.06	29.1
832*	837	5.530	34.781	3.48			028	27.454	5.5052	74.5	1.2322	1486.8	37.313	2.42	24.8
930	936	4.965	34.588	4.052			030	27.612	4.885	59.6	1.2985	1486.0	43.285	1.50	40.1
1025*	1035	4.740	34.922	4.412			030	27.665	4.653	55.3	1.3553	1486.8	49.001	1.26	47.6
1224*	1233	4.360	34.950	4.522			032	27.729	4.258	50.3	1.4599	1488.5	61.076	1.01	59.5
1419	1430	4.175	34.965	4.652			033	27.761	4.056	48.7	1.5576	1491.0	74.354	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1591 20-11-70 6.4 12 25.0 N 61 38.0 W 2337

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.91	35.686	4.54			002	23.284	26.910	460.3	.0000	1540.0	.000	7.70	7.8
49	49	25.70	36.338	4.19			002	24.157	25.688	379.0	.2018	1539.8	.468	13.41	4.5
73	73	22.53	36.884	3.67			002	25.517	22.515	250.4	.2775	1532.2	.923	6.66	9.0
88	88	21.72	36.849	3.54			002	25.720	21.702	231.7	.3138	1530.3	1.221	2.56	23.4
98	98	21.56	36.810	3.51			002	25.735	21.540	230.6	.3370	1530.0	1.442	2.88	20.8
108*	108	21.45	36.797	3.49			002	25.755	21.428	229.0	.3601	1529.9	1.685	6.01	10.0
118	118	20.78	36.698	3.33			003	25.864	20.756	219.0	.3826	1528.2	1.946	6.85	8.6
127*	127	20.32	36.705	3.39			003	25.994	20.295	206.9	.4018	1527.1	2.187	6.36	9.4
137	137	19.50	36.581	3.25			003	26.117	19.474	195.5	.4220	1524.9	2.460	4.25	14.1
147*	147	18.97	36.469	3.10			004	26.169	18.943	190.9	.4414	1523.4	2.743	5.47	11.0
171	171	17.54	36.282	3.07			005	26.384	17.510	170.9	.4850	1519.5	3.451	3.98	15.1
196*	196	16.63	36.145	3.05			006	26.498	16.597	160.8	.5267	1517.0	4.233	3.95	15.2
245	245	14.49	35.799	3.05			008	26.717	14.452	140.8	.6010	1510.8	5.902	3.03	19.8
294*	295	13.08	35.573	2.98			010	26.838	13.038	130.1	.6678	1506.7	7.741	2.95	20.7
343	344	11.40	35.296	2.88			013	26.951	11.355	119.8	.7293	1501.4	9.749	2.73	22.0
392*	393	9.83	35.057	2.91			016	27.045	9.783	110.9	.7862	1496.3	11.890	1.71	35.1
441	443	9.21	34.963	2.82			018	27.075	9.159	108.6	.8404	1494.7	14.204	2.11	28.5
490*	492	8.420	34.869	2.84			019	27.127	8.366	103.9	.8928	1492.4	16.708	2.20	27.3
536*	538	7.70	34.800	2.83			021	27.182	7.644	98.8	.9397	1490.3	19.179	1.82	32.9
584	587	7.22	34.759	2.84			023	27.219	7.161	95.5	.9867	1489.2	21.880	1.72	34.8
633*	636	6.74	34.715	2.89			025	27.251	6.678	92.6	1.0331	1488.0	24.782	1.65	36.4
682	685	6.520	34.718	3.02			027	27.283	6.455	90.0	1.0782	1488.0	27.827	1.67	35.9
731*	735	6.215	34.707	3.02			027	27.315	6.146	87.2	1.1220	1487.6	31.006	2.04	29.4
779	783	5.905	34.722	3.18			028	27.366	5.833	82.5	1.1631	1487.1	34.193	2.24	26.8
974*	980	4.860	34.899	4.26			029	27.633	4.777	57.9	1.3013	1486.4	46.411	1.33	45.2
1169	1177	4.475	34.939	4.44			030	27.708	4.377	52.1	1.4096	1488.1	58.306	1.03	58.5
1461*	1472	4.185	34.963	4.65			032	27.759	4.062	49.4	1.5594	1491.8	78.540	.77	77.5
1754*	1769	4.120	34.969	4.70			033	27.770	3.970	50.8	1.7081	1496.5	103.205	.72	83.3
2143	2164	4.110	34.971	4.74			034	27.773	3.920	54.0	1.9149	1503.0	144.919	.00	.0

SHIP AN CRUISE 056 STATION 1592 DATE 20- 11 -70 GMT 9.5 LATITUDE 12 13.0 N LONGITUDE 61 45.0 W DEPTH 1340

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.61.	35.999	4.58			002	23.615	26.610	428.7	.0000	1539.7	.000.	1.51	39.8
29	29	26.64	36.011	4.66			002	23.615	26.633	429.9	.1204.	1540.2	.185.	12.32	4.9
59	59	23.99	36.326	4.33				25.046	23.977	294.7	.2293	1535.4	.645.	8.73	6.9
88	88	21.81	36.899	3.58			002	25.732	21.792	230.5	.3057	1530.6	1.206	7.04	8.5
98	98	21.24	36.890	3.63			002	25.884	21.220	216.4	.3282	1529.3	1.420	7.73	7.8
108*	108	20.25	36.778	3.52			002	26.068	20.229	199.2	.3490	1526.7	1.639	5.94	10.1
117	117	19.43	36.619	3.37			003	26.164	19.408	190.3	.3666	1524.4	1.842	5.23	11.5
127.	127	18.73	36.489	3.29				26.245	18.707	182.8	.3854	1522.4	2.076	3.67	16.3
137	137	18.46	36.449	3.26			006	26.283	18.435	179.5	.4036	1521.8	2.323	5.58	10.8
147.	147	17.84	36.369	3.26			006	26.377	17.814	170.9	.4212	1520.1	2.579	3.36	17.9
171	171	17.01	36.202	3.09			007	26.451	16.981	164.5	.4616	1517.8	3.237	3.69	16.3
196*	196	15.97	36.008	3.15			008	26.547	15.938	155.9	.5018	1514.9	3.993	3.99	15.1
244	244	14.12	35.761	3.03			010	26.767	14.083	135.9	.5723	1509.5	5.571	3.06	19.6
293*	294	12.29	35.437	2.92			013	26.890	12.250	124.8	.6365	1503.8	7.334	2.49	24.1
342	343	11.12	35.251	2.90			014	26.968	11.076	118.0	.6963	1500.3	9.280	2.45	24.5
391*	392	9.62	35.004	2.85			017	27.039	9.574	111.3	.7528	1495.4	11.404	2.17	27.6
440	442	8.77	34.899	2.84			021	27.096	8.721	106.2	.8065	1492.9	13.690	1.54	39.0
489*	491	8.43	34.862	2.85			020	27.120	8.377	104.5	.8585	1492.4	16.170	2.09	28.7
534	536	7.82	34.805	2.85				27.165	7.764	100.2	.9049	1490.7	18.605	1.80	33.3
583	586	7.18	34.731	2.90			024	27.202	7.122	97.0	.9535	1489.0	21.395	1.30	46.2
631*	634	6.990	34.717	2.89			025	27.218	6.927	96.0	1.0002	1489.0	24.306	1.99	30.1
680	683	6.555	34.703	3.01			027	27.266	6.490	91.6	1.0465	1488.1	27.424	1.69	35.5
728*	732	6.260	34.694	3.05			028	27.298	6.191	88.8	1.0901	1487.7	30.580	2.12	28.4
826	831	5.725	34.756	3.35			029	27.416	5.650	78.2	1.1726	1487.2	37.147	2.58	23.3
923*	929	5.050	34.881	3.99			030	27.596	4.970	61.2	1.2408	1486.3	43.242	1.70	35.3
1020	1027	4.700	34.918	4.26			031	27.666	4.614	55.0	1.2977	1486.5	48.912	1.35	44.5
1117*	1124	4.500	34.939	4.29			032	27.705	4.407	51.9	1.3500	1487.3	54.662	1.22	49.3
1214*	1223	4.330	34.952	4.54			032	27.734	4.229	49.7	1.3998	1488.2	60.631	1.13	52.9
1311	1321	4.200	34.964	4.58			034	27.758	4.091	48.1	1.4478	1489.3	66.861	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1593 20-11-70 12:0 12 4.0 N 61 57.0 W 1368

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EM	V FREQ	PERIOD
1	1	26.60	36.015	4.73			002	23.631	26.600	427.2	.0000	1539.6	.000	1.03	55.3
29	29	26.63	36.014	5.01			002	23.620	26.623	429.4	.1201	1540.2	.185	7.97	7.6
59	59	26.16	36.593	4.44			002	24.205	26.146	374.8	.2410	1540.3	.717	11.46	5.2
88	88	23.25	37.003	4.18			002	25.398	23.231	262.3	.3336	1534.3	1.390	7.72	7.9
98	98	22.43	36.932	3.72			002	25.582	22.409	245.2	.3591	1532.4	1.632	8.45	7.1
108*	108	21.68	36.944	3.87			002	25.803	21.658	224.5	.3827	1530.6	1.880	-6.29	6.7
118	118	21.74	36.759	3.67			003	25.646	21.716	239.9	.4060	1530.7	2.151	12.27	4.9
127*	127	19.71	36.593	3.34			003	26.071	19.686	199.5	.4258	1525.3	2.399	7.22	8.3
137	137	18.78	36.487	3.55			004	26.231	18.755	184.5	.4451	1522.7	2.660	4.78	12.5
147*	147	18.26	36.403	3.38			004	26.298	18.233	178.4	.4633	1521.3	2.925	5.65	11.3
171	171	16.81	36.178	3.15			006	26.481	16.781	151.6	.5043	1517.2	3.591	4.00	15.3
196	196	15.95	36.066	3.60			006	26.596	15.918	151.3	.5436	1514.9	4.325	3.30	18.2
245	245	14.45	35.823	3.25			007	26.744	14.412	138.3	.6150	1510.7	5.954	3.67	16.3
294*	295	11.56	35.903	3.29			012	26.926	11.521	121.0	.6788	1501.1	7.695	2.49	24.1
343	344	9.88	35.012	3.16			015	27.001	9.839	114.0	.7368	1495.6	9.536	2.06	29.3
392*	393	9.25	34.942	2.92			017	27.052	9.205	109.8	.7920	1494.0	11.466	1.72	31.3
441	443	8.660	34.851	3.286			018	27.083	8.611	107.3	.8455	1492.5	13.468	1.56	38.3
490*	492	8.425	34.848	3.306			019	27.110	8.371	105.5	.8980	1492.4	16.457	2.49	24.3
488*	490	8.330	34.834	2.99			018	27.106	8.327	105.8	.8959	1492.1	16.350	1.43	40.4
536	538	8.150	34.826	2.87			020	27.129	8.132	104.3	.9466	1492.2	19.026	1.96	30.7
585*	588	7.580	34.766	3.14			022	27.173	7.519	100.3	.9971	1490.6	21.926	2.20	27.3
634	637	6.830	34.704	3.17			024	27.230	6.768	94.7	1.0453	1488.4	24.938	1.72	33.3
683*	686	6.455	34.686	3.28			026	27.266	6.390	91.4	1.0912	1487.7	28.048	1.52	39.3
731	735	6.220	34.678	3.10			027	27.291	6.151	89.4	1.1350	1487.5	31.228	2.02	29.7
829*	834	5.700	34.727	3.47			028	27.396	5.625	80.0	1.2187	1487.1	37.922	2.59	23.1
926	932	5.090	34.867	4.05			029	27.581	5.010	62.8	1.2886	1486.5	44.168	1.53	39.2
1024	1030	4.890	34.909	4.27			028	27.637	4.802	58.2	1.3484	1487.3	50.178	1.61	37.2
1121*	1128	4.550	34.936	4.80			030	27.697	4.456	52.8	1.4028	1487.6	56.165	1.14	52.5
1317	1327	4.270	34.958	4.72			032	27.745	4.150	49.5	1.5041	1489.7	68.850	.00	.0

SHIP AN CRUISE 056 STATION 1594 DATE 20-11-70 GMT 14.1 LATITUDE 11 56.0 N LONGITUDE 62 6.0 W DEPTH 1291

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.66	36.006	4.76			002	23.605	26.660	429.7	.0000	1539.8	.000	1.13	53.3
29	29	26.69	36.006	4.75			002	23.595	26.683	431.8	.1208	1540.3	.186	12.60	4.8
53	53	24.36	36.969	4.06			002	25.043	24.347	294.9	.2264	1536.5	.6270	7.05	8.5
87	87	23.12	37.066	3.76			001	25.484	23.101	254.1	.3063	1534.1	1.2110	10.10	5.9
97	97	21.35	36.822	3.55			003	25.802	21.330	224.1	.3303	1529.5	1.4370	6.68	9.0
106*	106	20.60	36.713	3.45			003	25.925	20.579	212.8	.3500	1527.5	1.6420	5.53	10.9
116	116	20.08	36.650	3.21			003	26.016	20.057	204.4	.3709	1526.2	1.8800	6.46	9.3
126*	126	19.29	36.544	3.33			003	26.143	19.266	192.6	.3909	1524.1	2.1270	5.64	10.6
135	135	18.61	36.428	3.30			004	26.229	18.585	184.6	.4079	1522.2	2.355	4.83	12.4
145*	145	18.12	36.357	3.21			004	26.298	18.094	178.3	.4262	1520.8	2.616	4.080	14.7
169	169	17.53	36.334	3.33			005	26.414	17.550	168.0	.4679	1519.6	3.287	3.28	18.3
194*	194	16.96	36.234	3.47			005	26.488	16.927	161.8	.5093	1518.1	4.057	4.91	12.2
243	243	13.49	35.678	3.26			009	26.835	13.455	129.2	.5810	1507.3	5.644	2.55	23.5
292*	293	12.16	35.438	3.01			011	26.916	12.120	122.2	.6429	1503.3	7.340	2.62	22.9
341			35.229	3.05			013								
390*	391	8.670	34.865	2.82			018	27.085	8.627	106.2	.7555	1491.7	11.243	1.44	41.7
440	442	8.345	34.827	2.87			019	27.106	8.297	104.9	.8087	1491.2	13.506	1.64	36.7
489*	491	8.025	34.803	2.88			020	27.136	7.973	102.6	.8598	1490.8	15.947	1.91	31.3
386*	387	9.230	34.930	3.25			017	27.046	9.186	110.2	.7495	1493.8	11.008	2.25	26.5
434	436	8.320	34.823	3.010			019	27.106	8.273	104.7	.8014	1491.0	13.191	1.52	39.4
482*	484	7.935	34.778	3.000			020	27.130	7.884	103.0	.8516	1490.3	15.551 ⁰	1.27	47.1
531	533	7.765	34.765	3.190			021	27.145	7.710	102.2	.9022	1490.4	18.185	1.91	31.3
573*	582	7.455	34.764	2.650			022	27.189	7.396	98.5	.9507	1490.00	20.951	1.64	36.5
627	630	7.170	34.750	2.980			023	27.219	7.107	96.1	.9978	1489.7	23.866	1.62	36.9
724*	728	6.320	34.671	3.100			026	27.272	6.252	91.3	1.0894	1487.8	30.215	2.27	26.4
821	826	5.620	34.728	3.35			028	27.407	5.546	78.8	1.1725	1486.7	36.791	2.47	24.3
919*	925	5.095	34.862	3.750			029	27.576	5.015	63.1	1.2427	1486.4	43.031	1.79	33.6
1018*	1024	4.745	34.913	4.240			030	27.657	4.659	55.9	1.3022	1486.6	48.940	1.28	47.0
1121*	1129	4.560	34.932	4.78			030	27.693	4.466	53.2	1.3589	1487.6	55.182	.00	.0

SHIP AN CRUISE 056 STATION 1595 DATE 20-11-70 GMT 15.5 LATITUDE 11 49.0 N LONGITUDE 62 13.0 W DEPTH 993

DEPTH	PRESS	TEMP	SAL	σ _t	Pθ ₄	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.70	35.928	4.87			002	23.533	26.700	436.5	00002	1539.8	00002	2.77	21.6
30	30	26.72	36.002	4.76			002	23.583	26.713	433.0	01263	1540.42	0200	12.67	4.7
59	59	24.14	36.885	4.82			002	25.046	24.127	294.7	02320	1535.9	06522	7.83	7.7
89	89	22.28	36.916	3.75			002	25.612	22.261	241.9	03128	1531.8	10252	7.21	8.3
99	99	21.56	36.859	3.65			002	25.772	21.540	227.1	03363	1530.1	10478	6.98	8.6
103*	108	20.85	36.778	3.54			003	25.906	20.828	214.6	03563	1528.3	10690	7.31	8.2
118	118	19.77	36.613	3.47			003	26.070	19.747	199.3	037712	1525.3	10930	3.97	15.1
128*	128	19.41	36.548	3.32			004	26.115	19.385	195.3	03969	1524.4	20180	2.79	21.5
148	148	19.07	36.484	2.810			004	26.154	19.042	192.3	04358	1523.7	20730	2.19	27.4
172	172	18.94	36.473	3.21			004	26.179	18.908	190.7	04820	1523.7	30487	6.20	9.7
197	197	16.84	36.174	3.25			006	26.470	16.806	163.5	05265	1517.7	40325	4.27	14.1
222	222	15.89	35.057	3.36			006	26.603	15.854	151.4	05660	1515.1	50173	5.35	11.2
246	246	13.93	35.774	3.38			008	26.807	13.943	132.2	06002	1509.1	50992	3.27	18.4
296*	297	12.04	35.455	2.75			011	26.953	12.000	118.8	06633	1503.0	70738	2.29	26.2
345	346	10.86	35.251	2.94			014	27.015	10.816	113.4	07206	1499.4	90618	2.09	28.8
394*	395	9.12	34.924	3.06			015	27.059	9.075	109.1	07754	1493.5	110697	2.17	27.6
443	445	8.19	34.809	3.430			020	27.115	8.143	103.9	08280	1490.7	130951	1.76	34.1
492*	494	7.695	34.759	3.14			021	27.150	7.644	101.0	08785	1489.5	16037643582.43		0.0
492*	494	7.675	34.753	2.96			021	27.148	7.624	101.1	08785	1489.4	160376	1.53	39.3
542	544	7.415	34.738	2.97			023	27.174	7.360	99.2	09289	1489.2	19054	1.85	32.4
591*	594	6.985	34.712	2.99			024	27.215	6.927	95.7	09770	1488.3	210852	2.05	29.3
640		6.510													
689*		6.235													
738		6.050													
782*		5.710													
886	891	5.240	34.838	4.23			028	27.540	5.162	66.4	102181	1486.4	390497	1.99	30.2
985*	991	4.840	34.910	5.05			028	27.644	4.756	57.0	102797	1486.5	450408	0.002	0.0

SHIP AN CRUISE 056 STATION 1596 DATE 20-11-70 GMT 17.7 LATITUDE 11 42.0 N6 LONGITUDE 62 15.0 W DEPTH 791

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.87	35.929	4.72			002	23.480	26.870	441.6	.0000	1540.2	.000	2.13	28.2
30	30	26.84	35.943	5.18			002	23.500	26.833	440.9	.1281	1540.66	.203	10.866	5.5
59	59	25.37	36.748	4.34			001	24.568	25.356	340.2	.2416	1538.6	.699	9.63	6.2
89	89	23.19	37.028	3.82			001	25.435	23.171	258.9	.3318	1534.2	1.363	4.12	14.6
98	98	23.04	37.027	3.82			001	25.478	23.019	255.2	.3550	1534.0	1.585	10.38	5.8
108	108	21.60	36.930	3.76			002	25.815	21.578	223.4	.3790	1530.4	1.838	7.78	7.7
118	118	20.57	36.803	3.60			002	26.001	20.547	205.9	.4005	1527.7	2.087	5.62	10.7
128*	128	19.97	36.716	3.57			003	26.096	19.945	197.36	.4208	1526.2	2.342	5.49	10.9
143	143	18.35	36.413	3.27			004	26.276	18.353	180.6	.4587	1521.7	2.877	5.39	11.1
172*	172	16.70	36.149	3.28			005	26.484	16.671	161.3	.5000	1516.8	3.551	3.90	15.4
197	197	15.79	36.015	3.16			006	26.593	15.758	151.5	.5393	1514.3	4.292	4.84	12.4
222*	222	14.39	35.836	3.15				26.767	14.356	135.4	.5753	1510.1	5.065	2.58	23.3
246	246	13.89	35.751	2.94			008	26.808	13.853	132.0	.6076	1508.8	5.839	2.37	25.3
295*	296	13.02	35.607	2.85			009	26.877	12.978	126.5	.6713	1506.5	7.603	3.19	18.8
345	346	11.11	35.309	2.67			013	27.015	11.066	113.6	.7316	1500.4	9.579	2.30	26.1
394*	395	9.22	34.961	2.87			017	27.072	9.175	108.0	.7863	1493.9	11.648	1.97	30.5
443	445	8.94	34.965	2.93			019	27.120	8.890	104.1	.8386	1493.7	13.894	1.57	38.3
492*	494	8.62	34.933	2.88			019	27.146	8.565	102.3	.8895	1493.2	16.339	1.27	47.2
540*	542	8.08	34.839	2.92			021	27.156	8.022	101.7	.9388	1491.9	18.954	1.636	36.9
589	592	7.980	34.860	3.10			021	27.187	7.917	99.5	.9885	1492.3	21.833	1.296	46.6
639*	642	7.560	34.736	2.96			022	27.199	7.494	98.7	1.0384	1491.4	24.984	1.57	38.2
688	691	7.215	34.765	3.30			023	27.224	7.145	96.6	1.0867	1490.9	28.272	2.716	22.1
737*	741	5.810	34.634	3.61			028	27.309	5.743	87.2	1.1321	1485.9	31.592	1.59	37.8
786*	790	5.545	34.628	3.16			030	27.337	5.475	84.7	1.1745	1485.7	34.916	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1597 20-11-70 19.7 11 36.0 N 62 17.0 W 677

DEPTH	FRESS	TEMP	SAL	OX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.90	36.003	4.57			002	23.526	26.900	437.2	.0000	1540.3	.000	5.35	11.2
30	30	26.50	36.156	4.60			002	23.768	26.493	415.3	.1238	1540.1	.192	8.28	7.2
59	59	25.63	36.606	4.37			002	24.381	25.616	358.1	.2362	1539.1	.691	12.27	4.9
89	89	21.53	36.885	4.18			002	25.800	21.512	224.0	.3238	1529.9	1.324	4.66	12.9
99	99	21.29	36.881	3.65			002	25.864	21.270	218.4	.3460	1529.4	1.538	6.59	9.1
109*	109	20.64	36.821	3.54			002	25.996	20.618	206.1	.3673	1527.8	1.765	8.29	7.2
119	119	19.35	36.650	3.40			003	26.209	19.328	186.1	.3870	1524.2	1.995	6.91	8.7
123*	128	18.32	36.477	3.36			004	26.340	18.297	173.8	.4032	1521.3	2.200	4.78	12.5
148	146	16.81	36.170	3.17			006	26.474	16.785	161.5	.4369	1516.8	2.676	4.26	14.1
173*	173	15.97	36.087	3.11			006	26.607	15.942	149.5	.4760	1514.6	3.316	3.76	16.0
198	198	15.15	35.977	2.98			006	26.709	15.119	140.4	.5124	1512.3	4.008	3.30	18.2
222*	222	14.31	35.832	2.96			008	26.781	14.276	134.0	.5455	1509.8	4.720	3.14	19.1
247	247	13.49	35.695	2.85			009	26.848	13.454	128.0	.5784	1507.4	5.512	2.02	29.7
296*	297	12.86	35.588	2.84			010	26.894	12.818	124.8	.6407	1506.0	7.246	2.34	25.6
346	347	11.53	35.339	2.78			012	26.960	11.484	119.1	.7021	1501.9	9.264	2.28	26.3
395*	396	10.02	35.065	2.82			015	27.018	9.972	113.6	.7594	1497.0	11.443	1.80	33.4
445	447	9.24	34.941	2.85			017	27.053	9.189	110.8	.8159	1494.8	13.877	2.68	22.4
494*	496	8.86	34.700	2.87			018	26.926	8.804	123.3	.8736	1493.9	16.670	3.79	15.8
543*	545	8.71	34.945	2.89			019	27.141	8.649	103.9	.9297	1494.4	19.644	1.63	36.9
593	596	7.90	34.815	2.83			021	27.154	7.837	101.7	.9815	1492.0	22.664	1.58	37.9
642*	645	7.38	34.748	2.90			022	27.187	7.314	99.6	1.0311	1490.7	25.816	.00	.0

SHIP AN CRUISE 056 STATION 1598 DATE 20-11-70 GMT 21.2 LATITUDE 11 30.0 N LONGITUDE 62 19.0 W DEPTH 293

DEPTH	PRESS	TEMP	SAL	ØX	PØ4	PHØS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PØT EN	V FREQ	PERIOD
1	1	26.94	35.984	4.88			001	23.499	26.940	439.8	.0000	1540.4	.0002	2.84	21.1
19	19	26.80	35.968	4.65			001	23.532	26.795	437.4	.0791	1540.3	.081	7.67	7.8
38	38	26.40	36.254	4.56			001	23.874	26.391	405.5	.1593	1540.1	.312	7.23	8.3
48	48	26.11	36.344	4.52			001	24.033	26.098	390.8	.1992	1539.7	.487	13.75	4.4
57	57	24.91	36.562	4.33			001	24.569	24.897	340.1	.2321	1537.3	.6632	16.44	3.5
67*	67	23.21	37.022	4.00			001	25.425	23.195	259.0	.2622	1533.9	.852	6.80	8.8
76	76	22.72	37.002	3.88			001	25.552	22.704	247.2	.2850	1532.8	1.019	9.87	6.1
86*	86	20.93	36.758	3.70			002	25.855	20.963	218.6	.3084	1528.2	1.212	9.31	6.4
96	96	19.61	36.630	3.37			003	26.125	19.592	193.2	.3291	1524.6	1.404	7.00	8.6
105*	105	18.40	36.399	3.18			004	26.260	18.381	180.6	.3460	1521.0	1.578	3.99	15.0
115	115	18.11	36.364	3.17			004	26.306	18.089	176.5	.3639	1520.3	1.780	2.93	20.5
134*	134	17.93	36.362	3.15			005	26.349	17.906	173.1	.3973	1520.1	2.206	5.07	11.8
153	153	16.73	36.172	3.03			006	26.495	16.704	159.7	.4290	1516.7	2.672	3.32	18.1
191*	191	15.90	36.072	3.11			007	26.612	15.869	149.6	.4881	1514.6	3.710	3.12	19.3
239	239	14.33	35.782	3.26			009	26.738	14.294	138.6	.5576	1510.1	5.237	3.21	18.7
287*	288	12.63	35.502	2.91			011	26.874	12.590	126.3	.6215	1504.9	6.956	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 15990 20-110-70 22.4 11 24.0 N 62 21.0 W 93

DEPTH	PRESS	TEMP	SAL	BX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYON HT	SND VEL	P8T ENO	V FREQ	PERIOD
1	0.0	26.82	35.897	4.64			002	23.472	26.820	442.4	0	1540.0	000	3.00	16.6
5	5	26.82	35.915	4.66			002	23.485	26.819	440.3	0000	1540.1	000	3.17	18.0
15	15	26.79	35.935	4.67			002	23.510	26.786	439.3	0177	1540.2	000	3.03	19.8
25	25	26.75	35.947	4.69			001	23.532	26.744	437.7	0618	1540.20	051	3.03	19.8
34	34	26.65	35.977	4.65			0010	23.586	26.642	432.9	1059	1540.30	140	4.62	13.0
44	44	26.52	36.034	4.66			001	24.216	25.510	373.0	1449	1540.30	259	14.14	4.2
54	54	24.15	36.593	4.6			001	24.822	24.138	315.8	1853	1538.30	418	13.86	4.3
64	64	22.71	36.821	4.01			002	25.417	22.696	259.5	2198	1538.50	590	13.74	4.4
74	74	21.13	36.715	3.570			003	25.782	21.115	225.1	2487	1532.4	763	10.79	5.6
83	83	18.76	36.447	3.21			004	26.206	18.745	185.0	2730	1526.4	934	12.23	4.9
93	93	18.43	36.410	3.09			005	26.261	18.413	180.1	2915	1521.0	1062	4.35	13.8
											3099	1520.9	1247	1.00	1.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1600 20- 11 -70 23.6 11 18.0 N 62 23.0 W 82

DEPTH	PRESS	TEMP	SAL	σ _t	Pσ ₄	PHσ ₅	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PσT EN	V FREQ	PERIOD
1	1	26.15	32.803	4.83			014	21.355	26.150	644.9	.0000	1535.1	.000	27.48	2.2
10*	10	26.69	35.896	4.84			002	23.512	26.588	438.9	.0488	1539.9	.023	4.21	14.3
19	19	26.62	35.925	4.64			002	23.556	26.615	435.1	.0882	1539.9	.082	12.95	4.6
28*	28	25.71	36.175	4.47			002	24.031	25.703	390.2	.1254	1538.2	.170	13.24	4.5
37	37	24.48	36.334	4.06			003	24.527	24.472	343.2	.1584	1535.7	.279	11.09	5.4
46*	46	23.75	36.505	3.91			002	24.874	23.740	310.5	.1879	1534.3	.404	16.11	3.7
55	55	21.92	36.784	3.62			002	25.614	21.909	240.4	.2128	1530.2	.531	10.74	5.6
64	64	20.13	36.567	3.52			004	25.940	20.118	209.7	.2331	1525.4	.654	9.13	6.5
73	73	18.98	36.481	3.17			004	26.175	18.966	187.6	.2511	1522.2	.780	2.79	21.5
82*	82	18.88	36.471	3.01			005	26.193	18.865	186.2	.2680	1522.1	.914	.00	.0

SHIP AN CRUISE 056 STATION 1601 DATE 21-11-70 GMT 3.2 LATITUDE 11 00 N LONGITUDE 61 51.0 W DEPTH 121

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.39	30.435	4.43			023	19.502	26.390	822.8	.0000	1533.1	.000	39.70	1.5
11	11	24.00	36.124	4.01			004	24.512	23.998	343.6	.0583	1533.9	.024	17.74	3.4
21	21	21.70	36.566	3.43			005	25.510	21.696	249.0	.0880	1528.8	.070	6.83	8.8
31	31	21.18	36.565	3.48			005	25.654	21.174	235.7	.1123	1527.6	.134	10.01	6.0
41*	41	20.45	36.717	3.47			003	25.968	20.442	206.2	.1345	1526.0	.215	6.13	9.8
51	51	19.65	36.588	3.28			004	26.083	19.640	195.6	.1547	1523.9	.310	6.63	9.0
61*	61	18.73	36.453	3.43			006	26.218	18.719	183.1	.1737	1521.3	.419	4.05	14.8
71	71	18.41	36.409	3.09			006	26.265	18.397	178.9	.1919	1520.5	.542	4.87	12.3
81*	81	18.16	36.420	3.15			006	26.336	18.145	172.5	.2095	1520.0	.679	1.71	35.2
91	91	18.15	36.423	3.25			006	26.341	18.134	172.4	.2268	1520.1	.832	2.60	23.1
101*	101	18.03	36.406	3.15			007	26.358	18.012	171.1	.2444	1519.9	1.002	1.69	35.4
111	111	17.95	36.386	3.15			008	26.363	17.930	171.0	.2642	1519.8	1.188	2.87	20.9
121*	121	17.81	36.369					26.384	17.789	169.3	.2783	1519.6	1.392	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1602	21-11-70	5.5	11 8.0 N	61 49.0 W	159

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	25.54	32.697	4.38			015	21.463	25.540	634.5	.0000	1533.6	.000	16.12	3.7
11	11	25.00	33.568	4.09			015	22.283	24.997	556.4	.0595	1533.4	.035	32.76	1.8
20	20	22.29	36.582	3.47			004	25.356	22.286	263.6	.0965	1530.3	.087	7.06	8.5
30	30	21.75	36.583	3.40			004	25.509	21.744	249.4	.1222	1529.1	.153	9.89	6.1
39	39	20.73	36.576	3.33			004	25.785	20.722	223.5	.1436	1526.6	.227	7.95	7.5
49	49	20.23	36.657	3.57			004	25.982	20.220	205.2	.1651	1525.5	.324	5.72	10.5
59	59	19.88	36.665	3.60			004	26.081	19.869	196.1	.1852	1524.7	.435	5.86	10.2
68*	68	19.26	36.575	3.27			005	26.175	19.247	187.5	.2026	1523.1	.548	3.04	19.7
78	78	18.78	36.445	3.27			005	26.199	18.766	185.5	.2213	1521.7	.688	3.70	16.2
88*	88	18.45	36.386	3.17			005	26.238	18.434	182.1	.2397	1520.9	.845	7.69	7.8
97	97	17.54	36.306	3.11			006	26.403	17.523	166.7	.2555	1518.3	.994	2.32	25.9
107*	107	17.45	36.294	3.09			007	26.415	17.431	165.8	.2722	1518.2	1.169	2.26	26.6
116	116	17.34	36.273	3.15			007	26.426	17.320	165.1	.2872	1518.0	1.340	2.47	24.3
126*	126	17.24	36.261	3.10			007	26.441	17.218	164.0	.3037	1517.8	1.545	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1603	21-11-70	6.0	11 15.0 N	61 49.0 W	155

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	25.49	34.710	4.73			007	22.994	25.490	488.0	.0000	1535.7	.000	2.36	25.4
10	10	25.50	34.727	5.05			007	23.004	25.498	487.5	.0439	1535.9	.025	11.73	5.1
20	20	25.80	35.422	4.80			007	23.435	25.795	446.7	.0907	1537.5	.095	14.42	4.2
30	30	24.96	35.949	4.11			007	24.091	24.953	384.5	.1323	1536.3	.200	13.84	4.3
40	40	23.49	36.167	3.80			006	24.695	23.481	327.3	.1680	1533.2	.327	15.93	3.8
50	50	21.96	36.653	3.49			004	25.503	21.950	250.7	.1970	1530.1	.458	10.34	5.8
60	60	20.48	36.557	3.58			004	25.838	20.468	219.2	.2206	1526.2	.590	8.26	7.3
70*	70	19.77	36.587	3.55			004	26.050	19.757	199.4	.2416	1524.5	.730	6.28	9.6
80	80	19.40	36.618	3.44			004	26.171	19.385	188.3	.2610	1523.7	.879	5.80	10.3
90*	90	18.26	36.369	3.16			005	26.272	18.244	178.9	.2795	1520.4	1.039	7.51	8.0
100	100	16.76	36.118	3.16			006	26.446	16.743	162.5	.2966	1515.8	1.206	4.98	12.0
110*	110	16.65	36.182	3.09			007	26.522	16.631	155.7	.3126	1515.7	1.378	2.42	24.8
120	120	16.54	36.167	3.10			008	26.536	16.520	154.6	.3282	1515.5	1.562	1.96	30.6
135	135	16.40	36.140	3.09			008	26.548	16.377	153.9	.3514	1515.3	1.866	1.80	33.4
155*	155	16.32	36.132	3.09			009	26.551	16.294	153.4	.3823	1515.4	2.325	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN C56 1604 21- 11 -70 7.5 11 25.0 N 61 48.0 W 155

DEPTH	PRESS	TEMP	SAL	BX	PB4	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.77	35.846	4.66			003	23.449	26.770	444.5	.0000	1539.8	.000	1.45	41.4
10	10	26.81	35.846	4.89			003	23.436	26.808	446.1	.0401	1540.1	.023	2.98	20.1
19	19	26.77	35.854	4.66			003	23.455	26.765	444.7	.0803	1540.1	.082	8.42	7.1
28	28	26.33	35.930	4.50			004	23.652	26.323	426.3	.1195	1539.4	.176	8.94	6.7
38	38	25.74	36.013	4.39			005	23.899	25.731	403.1	.1611	1538.3	.316	7.56	7.9
48	48	25.33	36.077	4.28			004	24.074	25.319	386.8	.2006	1537.6	.490	17.01	3.5
57	57	23.41	36.404	3.76			004	24.898	23.398	308.7	.2320	1533.5	.657	11.32	5.3
66	66	22.77	36.637	3.78			003	25.260	22.756	274.5	.2583	1532.4	.822	10.26	5.8
76	76	21.63	36.645	3.71			004	25.590	21.614	243.5	.2843	1529.6	1.010	9.36	6.4
86	86	21.00	36.776	3.46			004	25.864	20.983	217.8	.3075	1528.3	1.202	8.49	7.1
95	95	19.93	36.679	3.49			004	26.065	19.962	199.0	.3263	1525.6	1.376	6.53	9.2
104	104	19.12	36.537	3.45			004	26.182	19.101	188.1	.3438	1523.2	1.554	2.80	21.5
114	114	18.85	36.472	3.44			004	26.202	18.829	186.5	.3626	1522.5	1.764	8.49	7.1
128	128	15.89	35.940	3.45			007	26.513	15.869	157.0	.3868	1513.4	2.062	5.18	11.6
147	147	15.16	35.926	3.15			007	26.667	15.137	142.8	.4154	1511.4	2.464	.00	.0

SHIP AN CRUISE 056 STATION 1605 DATE 21-11-70 GMT 8.9 LATITUDE 11 31.0 N LONGITUDE 61 40.0 W DEPTH 300

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HTD	SND VEL	POT EN	V FREQ	PERIOD
1	10	26.53	35.926	4.78			002	23.586	26.530	431.5	.0000	1539.4	.0000	2.20	27.3
24	24	26.500	35.938	4.65			002	23.604	26.494	430.7	.0993	1539.7	.127	6.36	9.4
49	49	25.82	36.058	4.26			003	23.908	25.808	402.7	.2036	1538.7	.512	14.79	4.1
73	730	22.73	37.026	3.88			002	25.567	22.714	245.7	.2817	1532.8	.977	9.36	6.4
88	88	20.750	36.835	3.57			002	25.977	20.732	207.2	.3157	1527.7	1.258	6.24	9.6
97	97	19.980	36.703	3.46			003	26.083	19.961	197.3	.3340	1525.7	1.428	5.83	10.3
107	107	18.990	36.498	3.27			004	26.136	18.970	187.8	.3534	1522.9	1.630	3.78	15.9
117	1170	18.47	36.377	3.20			004	26.226	18.449	184.3	.3720	1521.4	1.845	5.41	11.1
127	1270	17.70	36.241	3.23			005	26.314	17.678	176.2	.3902	1519.2	2.071	5.85	10.3
146	1460	16.15	36.015	3.27			006	26.511	16.126	157.8	.4220	1514.6	2.515	4.36	13.8
170	1700	15.20	35.909	3.19			007	26.645	15.173	145.6	.4586	1511.9	3.106	3.48	17.2
195	195	14.430	35.801	3.05			008	26.731	14.400	138.0	.4942	1509.7	3.772	2.70	22.2
219	219	14.00	35.742	3.02			009	26.778	13.967	134.1	.5271	1508.7	4.463	2.17	27.5
244	244	13.70	35.697	3.02			009	26.806	13.664	132.0	.5605	1508.0	5.263	3.26	18.4
263	2630	12.86	35.565	2.88			010	26.876	12.822	125.7	.5916	1505.5	6.079	3.38	17.8
292	2930	11.490	35.317	2.90			012	26.950	11.452	118.6	.6211	1500.9	6.926	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1606 21-11-70 10.0 11 36.0 N 61 47.0 W 596

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P07 EN	V FREQ	PERIOD
1	1	26.66	35.896	4.65			002	23.522	26.660	437.6	0000	1539.6	0000	1.04	57.7
29	29	26.70	35.898	5.16			002	23.511	26.692	439.8	01230	1540.2	0189	2.58	23.8
58	58	26.62	35.915	4.66			002	23.549	26.606	437.4	02504	1540.5	0756	15.05	4.0
87	87	22.44	37.003	4.38			002	25.633	22.422	239.9	03489	1532.3	1.444	8.53	7.0
97	97	21.43	36.925	3.91			002	25.858	21.410	218.8	02719	1523.8	1.661	5.93	10.1
107*	107	20.85	36.859	3.81			002	25.965	20.839	209.0	03234	1528.4	1.885	6.49	9.4
116	116	20.23	36.787	3.57			002	26.081	20.207	198.3	04118	1526.8	2.095	7.14	8.4
126*	126	19.18	36.629	3.48			003	26.237	19.156	183.7	04310	1523.9	2.333	5.48	11.0
136	136	18.32	36.459	3.38			004	26.326	18.295	175.4	04490	1521.4	2.574	6.24	9.6
145*	145	17.39	36.297	3.25			005	26.432	17.365	165.6	04644	1518.6	2.796	4.45	13.0
170	170	16.03	36.065	3.26			006	26.577	16.002	152.2	05043	1514.7	3.439	3.74	16.0
194*	194	14.65	35.785	3.19			008	26.671	14.620	143.7	05400	1510.4	4.104	3.69	16.0
218	218	12.89	35.424	3.20			010	26.761	12.859	135.2	05737	1504.6	4.813	2.10	28.0
243*	243	13.13	35.524	3.10			010	26.790	13.095	132.2	06074	1505.9	5.611	2.33	25.0
292	292	12.06	35.340	3.08			011	26.860	12.020	127.5	06717	1502.9	7.371	2.45	24.0
341*	342	10.99	35.176	2.98			013	26.933	10.946	121.1	07329	1499.7	9.358	2.35	25.0
389	390	10.32	35.110	3.00			014	27.001	10.272	115.2	07900	1495.0	11.455	2.33	23.0
435*	440	9.30	35.104	2.79			016	27.086	9.748	108.0	08451	1497.0	13.329	1.71	35.0
457*	469	9.05	34.981	3.08			018	27.115	8.994	105.6	08978	1494.9	16.330	1.67	35.0
536	538	8.24	34.850	2.87			020	27.140	8.182	103.2	09493	1492.4	19.037	1.91	31.0
585*	588	7.43	34.746	3.19			023	27.179	7.370	99.6	09994	1490.0	21.916	0.95	0.0

SHIP AN CRUISE STATION DATE GMT2 LATITUDE LONGITUDE DEPTH
 AN 056 1607 21- 11 -70 11:2 11 40.0 N 61 47.0 W 677

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.62	35.880	4.62			002	23.522	26.620	437.5	.0000	1539.5	.000	1.29	46.4
27	27	26.63	35.877	4.67			002	23.517	26.623	439.1	.11412	1540.0	.164	6.79	8.8
55	55	26.21	36.219	4.56			002	23.907	26.197	403.1	.2322	1539.9	.652	13.76	4.4
83	83	22.32	36.885	3.72			002 2	25.577	22.303	245.0	.3232	1531.8	1.263	7.02	8.5
92	92	21.65	36.815	3.65			003	25.713	21.631	232.4	.3448	1530.1	1.456	7.96	7.5
101	101	20.99	36.807	3.56			002	25.890	20.970	215.9	.3650	1528.6	1.656	6.79	8.8
110	110	20.21	36.696	3.39			003	26.017	20.189	204.1	.38402	1526.5	1.861	5.37	11.2
120*	120	19.99	36.733	3.29			002	26.103	19.967	196.2	.4041	1526.1	2.098	5.75	10.4
129	129	19.43	36.657	3.49			003	26.193	19.406	188.0	.4215	1524.6	2.319	4.77	12.6
133*	138	19.10	36.624	3.39			003	26.253	19.074	182.5	.4382	1523.8	2.548	4.12	14.6
162	162	18.04	36.425	3.33			004	26.370	18.011	172.1	.4810	1521.0	3.204	4.87	12.3
185	185	16.44	36.129	3.30			005	26.530	16.409	157.3	.5190	1516.3	3.879	4.05	14.8
232	232	13.58	35.592	3.12			009	26.750	13.546	136.92	.5885	1507.3	5.354	2.79	21.5
279	280	11.42	35.162	3.102			012	26.843	11.384	128.42	.6512	1500.2	6.994	2.47	24.3
327	328	10.76	35.107	2.982			013	26.921	10.719	121.8	.7116	1498.6	8.868	1.73	34.8
375*	376	10.88	35.180	2.882			013	26.956	10.832	119.7	.7699	1499.9	10.969	2.41	24.9
423	425	9.79	35.024	2.94			016	27.026	9.740	113.3	.8262	1496.6	13.271	2.34	25.6
471*	473	9.23	35.004	2.93			017	27.095	9.225	107.3	.8795	1495.5	15.716	2.21	27.2
532*	534	8.052	34.348	2.87			020	27.186	8.002	100.6	.9434	1491.7	19.000	2.19	27.4
550	583	6.722	34.665	3.20			024	27.214	6.664	95.2	.9908	1487.0	21.701	2.47	24.3
629*	632	5.8752	34.622	3.01			028	27.291	5.818	87.5	1.0359	1484.4	24.499	2.07	28.9
653	656	5.6502	34.6202	3.23			029	27.318	5.592	85.0	1.0567	1483.9	25.874	2.72	22.0
677*	680	5.360	34.638					27.3672	5.301	80.2	1.0767	1483.1	27.240	.00	.0

SHIP AN CRUISE 056 STATION 1608 DATE 21-11-70 GMT 12.7 LATITUDE 11 45.0 N LONGITUDE 61 47.0 W DEPTH 746

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.66	35.840	4.61			002	23.480	26.660	441.6	.0000	1539.6	.000	2.00	29.9
28	28	26.65	35.855	4.61			002	23.494	26.643	441.4	.11942	1540.0	.1772	9.49	6.3
56	56	26.48	36.823	4.51			001	24.278	26.466	367.8	.2329	1541.2	.6502	11.70	5.1
85	85	22.00	36.693	4.18			003	25.522	21.982	250.3	.32272	1530.8	1.274	9.17	6.5
94	94	20.91	36.605	3.30			003	25.758	20.891	228.1	.34442	1528.0	1.472	7.40	8.1
103*	103	20.56	36.580	3.27			003	25.910	20.540	214.0	.3643	1527.3	1.673	5.83	10.3
113	113	20.24	36.702	3.33			003	26.013	20.218	204.6	.3853	1526.6	1.905	7.16	8.4
122*	122	19.17	36.518	3.20			004	26.154	19.147	191.3	.40322	1523.6	2.121	5.55	10.8
132	132	18.90	36.549	3.29			003	26.248	18.876	182.8	.42202	1523.1	2.365	6.02	10.0
141*	141	18.42	36.519	3.43			003	26.347	18.394	173.6	.43812	1521.8	2.590	2.47	24.3
165	165	18.07	36.450	3.32			004	26.382	18.040	171.4	.4797	1521.1	3.242	5.21	11.5
189*	189	16.28	36.139	3.23			006	26.576	16.249	153.1	.51882	1515.8	3.949	4.00	15.0
236	236	12.88	35.455	3.03			010	26.787	12.847	133.2	.58642	1504.9	5.412	2.59	23.1
284*	285	11.05	35.107	3.03			012	26.868	11.014	125.9	.64902	1498.9	7.077	2.71	22.1
332	333	11.09	35.247	2.81			013	26.970	11.047	117.5	.70782	1500.0	8.930	1.79	33.5
380	381	10.315	35.110	2.81			014	27.002	10.268	115.0	.76392	1497.9	10.981	1.96	30.7
428	430	9.330	34.860	2.81			016	27.043	9.340	111.5	.81862	1495.1	13.250	2.54	23.6
476*	478	8.310	34.769	2.79			018	27.128	8.856	104.0	.87072	1494.1	15.663	2.09	28.6
531*	533	7.560	34.772	2.87			022	27.180	7.505	98.7	.9268	1489.6	18.562	2.27	26.4
574	577	6.480	34.645	2.98			025	27.231	6.426	93.2	.9684	1485.9	20.919	1.92	31.2
616*	619	6.040	34.520	3.01			027	27.269	5.984	89.7	1.0071	1484.8	23.285	2.10	28.5
658	661	5.645	34.618	3.03			029	27.317	5.587	85.2	1.0441	1483.9	25.706	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1609 21-11-70 14.9 11 50.0 N 61 45.0 W 634

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PST EN	V FREQ	PERIOD
1	1	26.74	35.856	4.62			002	23.466	26.740	442.9	.0000	1539.8	.000	1.73	34.5
9	9	26.73	35.854	4.72			002	23.468	26.728	443.1	.0355	1537.9	.018	2.38	20.8
27	27	26.62	35.853	4.51			002	23.502	26.613	440.6	.1151	1539.9	.165	12.45	4.9
55	55	25.21	37.078	4.30			001	24.867	25.197	311.6	.2206	1538.5	.582	6.39	9.4
64	64	24.85	37.079	4.18			001	24.978	24.835	301.4	.2483	1537.9	.750	8.46	7.1
73	73	24.00	37.003	3.93			001	25.177	23.984	282.8	.2747	1535.9	.935	8.39	7.1
82	82	23.22	36.958	3.76			002	25.373	23.202	264.5	.2994	1534.1	1.131	8.26	7.3
91	91	22.27	36.847	3.55			003	25.563	22.251	246.7	.3225	1531.7	1.335	4.80	12.5
100	100	22.05	36.845	3.54			003	25.624	22.029	241.2	.3445	1531.3	1.550	2.29	26.2
110	110	21.99	36.837	3.48			003	25.635	21.967	240.6	.3687	1531.3	1.811	6.97	8.6
133	133	20.43	36.721	3.42			003	25.977	20.404	208.8	.4206	1527.5	2.453	7.30	8.2
156	156	18.34	36.501	3.38			003	26.353	18.312	173.5	.4648	1521.8	3.102	4.61	13.0
202	202	15.61	36.021	3.18			006	26.639	15.577	147.3	.5389	1513.9	4.449	3.43	17.3
248	248	13.29	35.569	3.00			010	26.792	13.254	133.3	.6038	1506.6	5.939	3.14	19.1
295	295	10.76	35.099	2.98			014	26.915	10.723	121.6	.6641	1498.1	7.612	2.23	27.0
342	343	11.460	35.351	2.79			013	26.982	11.415	116.8	.7204	1501.5	9.452	2.42	24.8
389	390	10.120	35.127	2.81			015	27.049	10.073	110.6	.7742	1497.3	11.468	2.25	26.6
436	438	8.430	34.838	2.84			019	27.101	8.383	105.3	.8253	1491.5	13.629	2.02	29.7
483	485	8.350	34.889	2.75			020	27.153	8.297	101.2	.8742	1482.9	15.932	2.02	29.7
531	533	7.750	34.834	2.81			022	27.201	7.695	96.9	.9220	1480.9	18.424	1.94	31.0
578	581	7.000	34.747	2.87			024	27.240	6.943	93.1	.9670	1488.2	20.955	.09	.0

SHIP AN CRUISE 056 STATION 1610 DATE 21-11-70 GMT 16.2 LATITUDE 11 56.0 N LONGITUDE 61 44.0 W DEPTH 40

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	27.03	35.753	4.50			002	23.296	27.030	459.2	.0000	1540.3	.000	2.43	24.6
6*	6	27.01	35.752	4.51			002	23.302	27.009	458.8	.0230	1540.4	.008	.69	86.7
11	11	27.01	35.748	4.52			002	23.299	27.007	459.3	.0460	1540.4	.028	2.71	22.1
16*	16	26.99	35.750	4.45			002	23.307	26.986	453.8	.0689	1540.5	.060	1.03	58.0
21		26.98		4.50			002								
26*	26	27.01	35.753	4.61			002	23.303	27.004	459.6	.1149	1540.7	.159	1.58	38.0
31	31	27.00	35.749	4.61			003	23.303	26.992	459.8	.1379	1540.7	.226	.92	65.4
36*	36	27.01	35.750	4.55				23.300	27.001	460.2	.1609	1540.8	.305	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1611	21- 11 -70	23.9	11 .0 N	61 23.0 W	81

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.89	35.867	4.52			005	23.427	26.890	446.7	.0000	1540.1	.000	1.72	34.9
9	9	26.89	35.869	4.56			004	23.428	26.888	446.9	.0358	1540.3	.018	15.11	4.0
17*	17	25.60	36.095	4.34			004	24.004	25.596	392.2	.0694	1537.7	.062	12.16	4.9
25	25	24.62	36.190	3.97			005	24.376	24.614	357.1	.0994	1535.7	.126	21.84	2.7
33*	33	21.91	36.747	3.52			004	25.589	21.903	242.0	.1235	1529.8	.196	5.72	10.5
41	41	21.62	36.744	3.43			004	25.668	21.612	234.8	.1426	1529.1	.268	3.37	17.8
49*	49	21.36	36.681	3.18			005	25.692	21.350	232.7	.1614	1528.5	.355	4.69	12.8
57	57	20.84	36.561	2.94			006	25.744	20.829	228.1	.1799	1527.2	.455	4.94	12.1
65	65	20.61	36.555	2.91			007	25.802	20.597	222.9	.1980	1526.7	.568	10.14	5.9
73	73	19.39	36.468	2.88			009	26.059	19.376	198.6	.2149	1523.4	.687	9.27	6.5
81*	81	18.12	36.325	2.69			011	26.274	18.105	178.4	.2300	1519.8	.807	.00	.0

SHIP AN CRUISE 056 STATION 1612 DATE 22- II -70 GMT 1.9 LATITUDE 11 10.0 N LONGITUDE 61 22.0 W DEPTH 115

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.86	35.858	4.48			003	23.430	26.860	446.4	.00000	1540.1	.0000	.36	165.4
10	10	26.88	35.858	4.59			003	23.423	26.878	447.4	.04030	1540.2	.0230	3.83	15.7
19	19	26.80	35.871	4.58			003	23.458	26.795	444.4	.08050	1540.2	.0820	5.00	12.0
23*	28	26.66	35.898	4.53			003	23.523	26.653	438.6	.1202	1540.10	.178	5.13	11.7
38	33	26.50	35.932	4.46			003	23.600	26.491	431.7	.1638	1539.9	.3250	19.22	3.1
48*	48	23.65	36.329	3.80			004	24.771	23.639	320.4	.2015	1533.9	.4880	17.46	3.4
57	57	21.92	36.819	3.63			003	25.641	21.908	238.0	.2267	1530.3	.6220	5.38	11.1
66*	66	21.78	36.870	3.62			002	25.719	21.766	230.9	.2479	1530.1	.7550	7.70	7.8
76	76	20.42	36.619	3.40			006	25.902	20.405	213.8	.2702	1526.4	.9170	6.11	9.8
86*	86	19.82	36.558	2.91			006	26.015	19.804	203.3	.2911	1524.9	1.0900	4.90	12.2
95	95	19.41	36.501	2.88			007	26.079	19.392	197.5	.3093	1523.8	1.2580	6.97	8.6
104*	104	18.66	36.424	2.83			008	26.213	18.641	185.0	.3265	1521.8	1.434	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1613 22- 11 -70 4.1 11 22.0 N 61 19.0 W 160

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.69	35.964	4.57			002	23.564	26.690	433.6					
10	10	26.66	35.999	4.63			002	23.599	26.658	430.6	0000	1539.8	000	3.85	15.6
20	20	26.54	36.045	4.78			002	23.672	26.535	424.0	0389	1539.9	022	5.02	12.0
29	29	26.55	36.043	4.63			002	23.667	26.543	424.9	0317	1539.9	087	5.53	72.0
39	39	26.50	36.053	4.56			002	23.691	26.491	423.1	1200	1540.0	183	3.11	19.3
49*	49	25.91	36.217	4.52			002	24.000	25.898	394.0	1625	1540.1	331	9.96	6.0
59	59	23.28	36.567	3.77			003	25.059	23.267	293.4	2034	1539.1	515	18.29	3.3
69*	69	22.24	36.726	3.61			003	25.479	22.226	253.8	2378	1539.4	703	11.56	5.2
78	78	21.74	36.866	3.62			002	25.727	21.724	230.6	2653	1531.2	882	9.38	6.4
88*	88	21.14	36.803	3.57			002	25.846	21.122	219.6	2872	1530.2	1.046	6.25	9.6
98	98	20.63	36.795	3.48			002	25.965	20.661	208.6	3097	1528.7	1.238	6.27	9.6
118*	118	18.97	36.577	3.31			003	26.251	18.948	182.0	3312	1527.7	1.442	6.83	8.3
137	137	17.43	36.373	3.24			004	26.481	17.406	160.6	3705	1523.1	1.874	6.30	9.3
157*	157	16.07	36.077	3.04			008	26.577	16.044	151.9	4032	1516.7	2.299	4.10	14.6
											4346	1514.5	2.772	0.00	0

SHIP AN CRUISE 056 STATION 1615 DATE 22- 11 -70 GMT 7.1 LATITUDE 11 31.0 N LONGITUDE 61 16.0 W DEPTH 492

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PST EN	V FREQ	PERIOD
1	1	26.62	36.005	4.55			002	23.617	26.620	428.6	.0000	1539.7	.000	1.62	37.1
19	19	26.61	36.003	4.74			002	23.618	26.605	429.1	.0773	1540.0	.079	1.59	37.5
29	29	26.62	36.008	4.59			002	23.619	26.613	429.5	.1203	1540.1	.185	1.52	37.1
39	39	26.61	36.005	4.63			002	23.620	26.601	429.8	.1633	1540.3	.335	1.53	16.3
48	48	26.55	36.021	4.59			002	23.651	26.538	427.2	.2020	1540.3	.507	17.37	3.3
58*	58	24.59	36.482	4.16			002	24.606	24.577	336.6	.2402	1536.3	.712	16.11	3.7
68	68	22.45	36.735	3.66			003	25.426	22.436	258.8	.2701	1531.7	.903	7.58	7.9
78*	78	22.01	36.804	3.62			003	25.604	21.994	242.3	.2952	1530.8	1.050	7.72	7.8
87			36.622	3.49			003								
97*	97	20.25	36.627	3.54			003	25.953	20.231	209.6	.3383	1526.3	1.473	6.29	9.5
117	117	18.43	36.322	3.07			005	26.194	18.409	187.3	.3782	1521.2	1.908	4.79	12.5
136*	136	17.62	36.228	3.07			005	26.323	17.596	175.5	.4128	1519.1	2.356	5.82	10.3
166	166	15.29	35.916	3.07			007	26.631	15.264	146.9	.4614	1512.1	3.102	3.32	18.1
195*	195	14.08	35.688	3.14			008	26.719	14.051	139.0	.5031	1508.5	3.872	2.98	20.2
245	245	12.34	35.383	2.97			011	26.839	12.306	128.4	.5703	1503.1	5.382	2.85	21.0
29*	295	11.225	35.250	2.84			013	26.947	11.187	118.8	.6312	1499.9	7.061	2.06	29.1
344	345	10.930	35.250	2.75			015	27.002	10.886	114.7	.6899	1499.7	8.982	2.31	25.9
394*	395	10.160	35.162	2.84			015	27.070	10.112	108.9	.7462	1497.6	11.110	1.55	38.6
443*	445	8.835	34.910	2.99			018	27.086	8.835	107.3	.7995	1493.4	13.400	.00	.0

SHIP AN CRUISE 056 STATION 1616 DATE 22-11-70 GMT 8.4 LATITUDE 11 35.0 N LONGITUDE 61 15.0 W DEPTH 812

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.64	35.966	4.83			002	23.581	26.640	432.0	.0000	1539.7	.000	.81	73.9
29	29	26.68	35.963	4.64			002	23.566	26.673	434.6	.1215	1540.2	.187	9.16	6.5
59	59	25.09	36.341	4.25			002	24.347	25.076	361.3	.2411	1537.5	.709	12.82	4.7
88	88	21.05	36.784	3.46			003	25.848	21.062	219.4	.3255	1528.6	1.314	8.82	6.3
93	93	19.61	36.583	3.24			004	26.089	19.591	196.7	.3464	1524.5	1.513	5.17	11.6
108*	108	18.56	36.332	3.20			005	26.169	18.540	189.4	.3658	1521.5	1.717	4.82	12.5
118	118	18.14	36.284	3.03			005	26.237	18.119	183.1	.3845	1520.4	1.934	4.31	13.9
128*	128	17.85	36.261	3.11			005	26.292	17.827	178.3	.4027	1519.7	2.162	5.64	10.6
137			36.156	3.09			006								
147*	147	16.58	36.099	3.08			006	26.474	16.555	161.4	.4351	1516.0	2.618	4.15	14.5
172	172	15.70	35.997	3.05			007	26.600	15.672	150.0	.4742	1513.6	3.256	3.84	15.6
196*	196	14.33	35.733	3.10			008	26.700	14.300	140.9	.5093	1509.4	3.917	3.05	19.7
246	246	12.73	35.468	3.00			010	26.827	12.695	129.7	.5773	1504.6	5.452	3.33	18.0
295*	296	10.16	35.040	2.92			014	26.975	10.124	115.6	.6378	1495.8	7.121	2.42	24.7
344	345	9.70	35.040	2.98			016	27.053	9.659	109.0	.6931	1495.0	8.933	2.02	29.7
393*	394	8.78	34.907	2.84			018	27.100	8.736	104.9	.7459	1492.2	10.926	1.83	32.9
442	444	8.16	34.832	2.97			020	27.138	8.113	101.7	.7968	1490.6	13.109	1.91	31.3
491*	493	7.65	34.792	2.87			022	27.181	7.609	98.0	.8461	1489.4	15.468	1.97	30.4
535*	537	6.87	34.698	2.89			024	27.220	6.818	94.2	.8886	1486.9	17.710	1.98	30.2
583	586	6.67	34.728	2.91			025	27.271	6.614	89.9	.9332	1487.0	20.265	1.77	33.8
632*	635	6.145	34.684	2.98			027	27.306	6.087	86.6	.9767	1485.6	22.984	1.77	34.0
681	684	5.735	34.667	3.09			029	27.342	5.694	83.3	1.0187	1484.8	25.814	2.04	29.4
729*	733	5.315	34.663	3.26			030	27.392	5.252	78.4	1.0578	1483.8	28.647	1.24	48.2
778	782	5.275	34.679	3.36			030	27.410	5.207	77.3	1.0963	1484.5	31.628	1.23	46.4
812*	817	5.260	34.694					27.424	5.189	76.4	1.1226	1485.0	33.783	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1617 22- 11 -70 10.2 11 40.0 N 61 14.0 W 1126

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.63	35.967	4.61			002	23.585	26.630	431.6	.0000	1539.7	.000	.95	62.9
29	29	26.67	35.967	4.67			002	23.572	26.663	434.0	.1213	1540.26	.187	5.23	11.5
59	59	26.21	36.091	4.56			002	23.811	26.196	412.4	.2485	1539.8	.755	15.00	4.0
88	88	20.88	36.745	3.49			003	25.873	20.862	217.0	.3400	1528.0	1.401	4.56	13.2
98	98	20.39	36.650	3.37			003	25.933	20.371	211.6	.3616	1526.7	1.606	5.40	11.1
108*	108	19.78	36.551	3.21			004	26.020	19.759	203.6	.3824	1525.1	1.826	5.54	10.8
117	117	19.10	36.427	3.14			004	26.103	19.078	196.0	.4005	1523.2	2.034	4.71	12.7
127*	127	18.57	36.335	3.32			005	26.168	18.547	190.1	.4199	1521.8	2.276	5.09	11.8
137	137	18.04	36.262	3.14			005	26.246	18.016	183.0	.4386	1520.4	2.530	6.22	9.6
147*	147	17.31	36.182	3.12			006	26.364	17.285	172.0	.4564	1518.3	2.789	4.68	12.8
171	171	16.18	36.035	3.10			007	26.519	16.152	157.8	.4962	1515.1	3.435	4.29	14.0
196*	196	14.49	35.715	3.19			008	26.652	14.460	145.5	.5343	1509.8	4.151	3.61	16.6
245	245	12.36	35.380	3.03			011	26.832	12.326	129.0	.6019	1503.2	5.670	3.20	18.8
294*	295	10.596	35.132	2.92			014	26.971	10.553	116.2	.6624	1497.5	7.334	2.39	25.1
344	345	10.42	35.195	2.75			015	27.050	10.377	109.8	.7192	1497.8	9.191	2.25	26.7
393*	394	9.20	35.005	2.92			017	27.1096	9.155	104.4	.7720	1493.9	11.186	1.92	31.3
442	444	7.97	34.806	3.03			021	27.146	7.923	100.7	.8226	1489.8	13.353	1.61	37.4
492*	494	7.70	34.793	3.06			021	27.176	7.649	98.5	.8728	1489.6	15.758	1.71	35.1
534*	536	7.47	34.788	3.06			022	27.206	7.4156	96.2	.9140	1489.4	17.928	2.02	29.7
582	585	6.85	34.737	2.91			024	27.253	6.793	91.8	.9594	1487.7	20.531	2.32	25.9
630*	633	5.93	34.662	3.19			028	27.316	5.873	85.3	1.0022	1484.7	23.195	1.39	43.2
679	682	5.695	34.650	3.17			029	27.336	5.6346	83.7	1.0440	1484.5	26.002	1.67	35.8
728*	732	5.640	34.688	3.19			029	27.373	5.5756	80.8	1.0846	1485.2	28.940	1.39	43.2
774	780	5.525	34.697	3.23			029	27.394	5.456	79.2	1.1233	1485.5	31.934	1.90	31.6
824*	829	5.240	34.709	3.47			030	27.438	5.168	75.2	1.1607	1485.2	35.008	1.67	35.9
873	878	5.230	34.755	3.61			029	27.475	5.1546	72.2	1.1971	1486.0	38.186	1.66	36.2
970*	976	5.210	34.844	3.87			027	27.548	5.1256	66.6	1.2651	1487.7	44.614	1.78	33.7
1067*	1074	5.100	34.933	4.42			024	27.632	5.0066	59.7	1.3269	1488.9	51.078	1.74	34.3
1116*	1123	4.990	34.965	4.72				27.670	4.8926	56.4	1.3556	1489.3	54.304	.00	.0

SHIP AN CRUISE 056 STATION 1618 DATE 22- II -70 GMT 12.0 LATITUDE 11 44.0 N LONGITUDE 61 12.0 W DEPTH 1286

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.61	35.915	4.78			002	23.552	26.610	434.7	.00002	1539.6	.0002	1.452	41.4
10	10	26.65	35.915	4.51			002	23.539	26.648	436.3	.03922	1539.8	.0222	2.41	24.9
20	20	26.62	35.917	4.72			002	23.550	26.615	435.7	.08292	1539.9	.0892	1.442	41.7
29	29	26.62	35.916	5.08			002	23.550	26.613	436.1	.1222	1540.0	.1882	2.11	28.4
39	39	26.62	35.925	4.94			002	23.556	26.611	435.9	.16592	1540.2	.3402	4.89	12.3
49*	49	26.52	35.974	4.39			002	23.625	26.508	429.8	.20922	1540.2	.5352	12.19	4.9
59	59	25.71	36.255	4.50			001	24.091	25.696	385.7	.2501	1538.8	.7592	17.95	3.3
69*	69	23.81	36.842	4.20			002	25.112	23.795	288.9	.2839	1535.2	.9792	11.46	5.2
78	78	23.07	37.045	4.12			002	25.433	23.053	253.9	.3084	1533.8	1.1622	8.62	7.0
88*	88	22.08	36.974	3.88			002	25.713	22.062	232.3	.3328	1531.4	1.3692	6.02	10.0
113	113	20.69	36.827	3.72			002	25.987	20.668	207.1	.3879	1528.0	1.933	7.29	8.2
137*	1372	17.21	36.167	3.73			006	26.376	17.186	170.5	.4334	1517.8	2.511	4.58	13.1
186	186	14.91	35.371	3.28			008	26.680	14.881	142.7	.5105	1511.2	3.770	3.23	18.6
235*	235	12.46	35.368	3.10			011	26.819	12.428	130.1	.5777	1503.4	5.213	2.89	20.8
235	286	11.24	35.235	2.94			013	26.933	11.203	119.9	.6406	1499.8	6.884	2.60	23.1
33*	335	9.975	35.057	2.93			015	27.020	9.935	112.1	.6978	1495.8	8.696	2.21	27.2
383	384	9.4102	35.014	2.88			016	27.082	9.365	106.9	.7518	1494.5	10.681	2.00	29.9
432*	434	8.625	34.907	2.90			019-2	27.128	8.557	102.9	.8035	1492.2	12.844	1.91	31.5
491*	493	8.115	34.873	2.93			020	27.181	8.062	98.5	.8633	1491.2	15.676	1.95	30.8
540	542	7.185	34.756	2.94			023	27.221	7.131	94.5	.9109	1488.3	18.196	2.02	29.7
589*	592	6.505	34.698	3.01			026	27.269	6.449	89.9	.9564	1486.4	20.834	1.76	34.0
638	641	6.065	34.670	3.11			027	27.3052	6.006	86.6	1.0000	1485.4	23.580	1.57	38.1
688*	692	5.8852	34.679	3.14			028-2	27.335	5.822	84.2	1.0431	1485.5	26.514	1.42	42.2
786	790	5.565	34.685	3.25				27.3802	5.495	80.8	1.1246	1485.8	32.683	1.94	30.9
884*	889	5.260	34.765	3.62			0292	27.4802	5.183	72.0	1.2001	1486.3	39.148	1.75	34.4
982	988	5.330	34.883	4.10			025	27.5652	5.242	65.4	1.2681	1488.4	45.659	1.57	38.3
1080*	1087	5.150	34.931	4.45			023	27.6242	5.054	60.6	1.3305	1489.4	52.268	1.50	40.1
1179*	1187	5.090	34.993	5.41			0192	27.6802	4.985	56.4	1.3891	1490.8	59.067	1.52	39.4
1277*	1286	4.725	35.001	5.42			0182	27.729	4.614	52.0	1.4428	1491.0	65.848	.00	.0

SHIP AN CRUISE 056 STATION 1619 DATE 22-11-70 GMT 13.8 LATITUDE 11 48.0 N LONGITUDE 61 12.0 W DEPTH 1403

DEPTH	PRESS	TEMP	SAL	BX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.69	35.913	4.58			002	23.525	26.690	437.3	.0000	1539.7	.000	1.46	41.0
28	28	26.70	35.915	4.57			002	23.523	26.693	438.6	.1184	1540.2	.176	13.47	4.5
57	57	24.26	37.112	4.27			001	25.182	24.247	281.7	.2231	1536.4	.598	8.49	7.1
85	85	21.74	36.972	4.29			002	25.807	21.722	223.2	.2940	1530.4	1.102	6.48	9.3
95	95	21.01	36.874	4.29			002	25.935	20.991	211.4	.3153	1528.6	1.303	7.10	8.5
104*	104	20.21	36.772	3.49			002	26.074	20.190	198.4	.3344	1526.5	1.451	5.60	10.7
114	114	19.46	36.635	3.39			003	26.168	19.438	189.8	.3538	1524.4	1.709	5.30	11.3
124*	124	13.70	36.488	3.27			004	26.252	18.677	182.1	.3725	1522.3	1.937	5.26	11.4
133	133	18.08	36.381	3.23			005	26.327	18.056	175.2	.3887	1520.6	2.145	4.17	14.4
143*	143	17.86	36.376	3.36			004	26.377	17.835	170.7	.4060	1520.1	2.395	4.62	13.0
167	167	16.64	36.188	3.16			005	26.529	16.612	156.9	.4456	1516.6	3.021	4.38	13.7
191*	191	15.08	35.896	3.14			007	26.662	15.050	144.6	.4819	1511.9	3.687	3.82	15.7
239	239	12.16	35.365	2.98			011	26.860	12.128	126.2	.5473	1502.4	5.117	2.26	26.5
288*	289	10.91	35.142	2.98			013	26.921	10.873	121.0	.6081	1498.5	6.761	2.48	24.2
337	338	9.83	34.999	2.87			015	26.999	9.790	114.0	.6661	1495.3	8.613	2.10	28.6
386*	387	8.835	34.855	2.91			018	27.051	8.792	109.4	.7212	1492.2	10.658	2.37	25.3
436	438	8.040	34.722	2.91			020	27.125	7.994	102.7	.7745	1489.9	12.907	2.21	27.2
486*	488	7.815	34.435	2.83			021	27.192	7.764	97.0	.8248	1490.0	15.265	1.81	33.2
532*	541	7.025	34.738	2.85			024	27.230	6.972	93.5	.8757	1487.6	17.961	1.93	31.1
588	591	6.310	34.668	2.94			026	27.271	6.255	89.4	.9208	1485.5	20.573	1.78	33.7
636*	639	5.635	34.600	3.09			029	27.304	5.579	86.1	.9633	1483.5	23.242	1.77	33.3
685	689	5.715	34.669	3.11			029	27.348	5.654	82.7	1.0050	1484.7	26.065	1.59	37.6
783*	787	5.405	34.713	3.26			029	27.411	5.416	77.6	1.0841	1485.5	32.034	1.91	31.5
881	886	5.250	34.800	3.65			028	27.509	5.173	69.3	1.1567	1486.3	38.227	1.69	37.6
972*	985	5.385	34.903	4.07			025	27.577	5.268	64.3	1.2223	1488.5	44.636	1.60	37.3
1077	1084	5.225	34.964	4.53			022	27.641	5.129	59.2	1.2839	1489.7	50.988	1.37	43.7
1175*	1183	4.965	34.974	4.78			021	27.680	4.862	56.1	1.3410	1490.2	57.598	1.59	37.8
1224*	1233	4.885	35.001	5.07			018	27.711	4.778	53.6	1.3681	1490.8	60.961	1.33	45.2
1273*	1282	4.790	35.010	5.29			017	27.729	4.679	52.2	1.3943	1491.2	64.317	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1620 22-11-70 15.5 11 54.0 N 61 12.0 W 1463

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.76	35.930	4.84			002	23.516	26.760	438.2	.0000	1539.9	.0001	1.94	31.0
29	29	26.73	35.934	4.71			002	23.528	26.723	438.2	.12291	1540.3	.189	8.65	6.9
57	57	25.69	36.358	4.69			002	24.175	25.677	377.6	.23731	1538.9	.680	13.07	4.6
86	86	21.54	36.602	3.55			003	25.734	21.522	230.2	.32571	1529.7	1.296	6.11	9.8
96	96	21.21	36.831	3.55			003	25.848	21.191	219.8	.3483	1529.1	1.506	5.93	10.1
105*	105	20.80	36.809	3.53			003	25.943	20.779	211.0	.36771	1528.1	1.706	7.83	7.7
115	115	19.56	36.622	3.37			003	26.132	19.538	193.2	.38801	1524.7	1.934	5.56	10.8
124*	124	18.90	36.507	3.32			004	26.216	18.877	185.6	.40511	1522.9	2.144	7.88	68.3
134	134	18.86	36.484	3.36			003	26.208	18.835	186.6	.42381	1522.9	2.391	8.24	7.3
144*	144	18.20	36.542	3.33			003	26.420	18.174	166.8	.44161	1521.3	2.644	3.93	15.3
167	167	17.051	36.305	3.15			005	26.521	17.021	157.8	.47911	1518.0	3.240	4.23	14.2
191*	191	15.911	36.118	3.14			006	26.645	15.879	146.5	.51581	1514.7	3.912	3.44	17.5
239	239	14.061	35.791	3.02			008	26.803	14.024	132.4	.58301	1509.3	5.388	3.09	19.4
287*	283	11.531	35.291	2.97			012	26.923	11.492	121.1	.64421	1500.9	7.033	2.26	26.5
335	336	10.291	35.078	2.99			015	26.982	10.249	115.9	.7015	1497.0	8.857	1.74	34.5
383	384	9.17	34.371	2.93			018	27.009	9.126	113.5	.7569	1493.4	10.899	3.16	19.0
431	433	8.390	34.889	2.93			019	27.147	8.343	100.8	.8087	1491.3	13.056	1.91	31.5
473*	460	7.925	34.852	2.82			021	27.189	7.875	97.3	.8556	1490.3	15.243	1.69	35.5
524*	525	7.410	34.792	2.83			022	27.218	7.357	94.9	.90011	1489.0	17.533	1.76	34.2
572	575	7.025	34.767	2.88			024	27.252	6.968	91.9	.9452	1488.2	20.074	1.76	34.0
619*	622	6.435	34.705	2.94			026	27.284	6.376	88.8	.9880	1486.6	22.692	1.83	32.8
667	670	5.920	34.667	3.03			028	27.321	5.859	85.3	1.0301	1485.3	25.474	1.77	33.9
715*	719	5.620	34.666	3.17			029	27.3581	5.556	82.0	1.0706	1484.9	28.348	1.89	31.7
762	766	5.235	34.659	3.33			031	27.399	5.169	78.1	1.1086	1484.1	31.226	1.44	41.8
853*	863	5.410	34.755	3.44			028	27.454	5.334	74.4	1.1824	1486.5	37.370	1.82	33.0
954	960	5.365	34.860	4.55			026	27.542	5.280	67.3	1.2510	1488.0	43.751	1.67	35.8
1050*	1057	5.150	34.914	4.53			025	27.611	5.057	61.5	1.3135	1488.8	50.176	1.48	40.4
1245*	1255	4.835	35.007	5.53			017	27.715	4.776	53.4	1.4273	1491.1	63.546	1.36	44.0
1448*	1459	4.195	34.998	5.78			016	27.785	4.073	46.8	1.5297	1491.7	77.683	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1621 22-11-70 18.0 12.0 N 61 12.0 W 1403

DEPTH	PRESS	TEMP	SAL	σ _t	Pθ ₄	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	27.18	35.8397	4.89			002	23.313	27.180	457.6	.0000	1540.77	.0007	4.15	14.5
29	29	26.84	35.8707	4.78			002	23.445	26.833	446.1	.1267	1540.5	.1927	5.16	11.6
59	59	26.50	36.0357	4.66			002	23.677	26.486	425.2	.2576	1540.47	.777	14.09	4.3
88	88	22.29	36.761	3.55			003	25.492	22.271	253.3	.3562	1531.6	1.482	9.83	6.1
93	93	20.59	36.537	3.64			005	25.793	20.571	224.9	.3802	1527.1	1.710	8.04	7.5
108*	108	19.38	36.551	3.20			004	25.994	19.859	206.2	.4018	1525.4	1.938	6.35	9.4
117	117	19.77	36.659	3.44			003	26.105	19.748	195.9	.4200	1525.4	2.147	6.11	9.8
127*	127	18.97	36.534	3.37			003	26.218	18.946	185.4	.4392	1523.2	2.386	4.65	12.9
137	137	18.64	36.507	3.36			003	26.232	18.615	179.7	.4575	1522.4	2.634	6.77	8.9
147*	147	17.58	36.344	3.32			005	26.422	17.554	166.6	.4749	1519.3	2.887	4.45	13.5
171	171	16.10	36.065	3.03			008	26.561	16.072	153.9	.5135	1514.9	3.515	3.16	19.0
196*	196	15.34	36.108	3.33			006	26.631	15.908	148.0	.5515	1514.9	4.228	3.67	16.3
245	245	13.77	35.729	2.93			009	26.816	13.734	131.1	.6202	1508.3	5.773	3.24	18.5
294*	295	11.65	35.363	3.03			012	26.956	11.611	118.2	.6817	1501.5	7.464	2.16	27.8
342	343	10.60	35.183	2.87			015	27.009	10.557	113.87	.7377	1498.4	9.290	2.27	26.4
391*	392	9.395	35.108	2.80			016	27.073	9.848	108.3	.7924	1496.5	11.347	1.87	32.1
440	442	8.840	34.930	2.85			019	27.109	8.791	105.0	.8450	1493.2	13.590	2.38	25.2
489*	491	7.345	34.724	2.97			022	27.173	7.296	98.3	.8952	1488.0	15.980	1.14	52.5
532*	534	7.350	34.741	3.03			023	27.135	7.306	98.0	.9377	1488.8	18.210	1.86	32.3
581	584	7.290	34.786	2.87			023	27.230	7.231	94.5	.9852	1489.4	20.924	1.86	32.2
629*	632	6.725	34.734	2.98			025	27.268	6.664	90.9	1.0301	1487.9	23.710	1.63	36.9
677	680	6.240	34.685	2.96			027	27.294	6.177	88.5	1.0735	1486.7	26.621	1.80	33.3
726*	730	5.980	34.693	3.16			028	27.334	5.913	85.0	1.1163	1486.5	29.708	1.80	33.3
774	778	5.470	34.656	3.35			029	27.368	5.402	81.5	1.1566	1485.2	32.814	1.75	34.1
871*	876	5.305	34.733	3.40			029	27.449	5.223	74.8	1.2331	1486.2	39.268	1.81	33.2
963	974	5.315	34.848	3.84			027	27.539	5.229	67.6	1.3028	1488.1	45.847	1.73	34.7
1064*	1071	5.170	34.922	4.26			024	27.615	5.076	61.4	1.3653	1489.2	52.372	1.66	36.2
1210*	1218	4.315	34.995	5.00			019	27.714	4.710	52.9	1.4497	1490.2	62.195	1.25	48.0
1403*	1414	4.330	34.9967					27.769	4.211	48.3	1.5485	1491.5	75.448	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1622 22-11-70 20.5 12 10.0 N 61 8.0 W 1418

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHBS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.98	35.803	4.61			002	23.350	26.980	454.0	.00002	1540.3	.000	2.33	25.8
28	28	26.90	35.804	4.76			002	23.376	26.893	452.6	.12252	1540.5	.182	5.50	10.9
57	57	26.75	36.083	4.62			002	23.634	26.736	429.2	.2506	1541.0	.7342	8.49	7.1
86	86	25.18	36.287	4.25			002	24.279	25.160	368.9	.3666	1538.1	1.570	9.66	6.2
95	95	25.59	36.802	4.35			002	24.541	25.568	344.3	.3987	1539.8	1.867	8.54	7.0
104*	104	25.60	37.075	4.45			001	24.744	25.575	325.4	.4290	1540.3	2.175	8.49	7.1
114	114	24.87	37.072	4.35			001	24.967	24.844	304.6	.4606	1538.7	2.527	12.17	4.9
124*	124	22.28	36.676	3.63			004	25.430	22.254	260.6	.4889	1532.1	2.871	12.69	4.7
133	133	20.46	36.612	3.12			005	25.835	20.434	217.5	.5105	1527.4	3.155	7.18	8.4
142*	142	19.57	36.488	2.87				26.027	19.543	204.2	.5296	1525.0	3.423	7.34	8.2
157	157	18.13	36.331	2.91			007	26.276	18.102	180.9	.5586	1521.0	3.866	4.01	15.0
190*	190	17.65	36.377	3.27			005	26.430	17.616	167.3	.6163	1520.2	4.888	4.70	12.8
238	238	13.93	35.684	3.07			009	26.737	13.944	133.5	.6901	1508.8	6.490	3.44	17.4
285*	286	11.51	35.244	2.87			012	26.890	11.473	124.2	.7521	1500.7	8.147	2.54	23.7
332	333	10.26	35.053	2.87			014	26.967	10.219	117.2	.8092	1496.8	9.950	1.85	32.4
380*	381	9.72	34.983	2.89			016	27.006	9.675	114.3	.8651	1495.6	11.991	2.58	23.3
425	429	8.43	34.820	2.93			019	27.087	8.383	106.5	.9184	1491.3	14.198	1.272	40.7
475*	477	8.45	34.255	2.87			019	27.111	8.398	105.1	.9685	1492.2	16.518	1.94	30.9
587*	590	7.38	34.782	2.81			023	27.2142	7.320	96.2	1.0820	1489.9	22.682	2.11	28.5
635	639	6.78	34.743	2.87			025	27.267	6.718	91.1	1.1282	1488.3	25.585	1.63	36.9
685*	688	6.125	34.663	2.96			027	27.292	6.061	88.6	1.1726	1486.4	28.597	1.73	34.8
734 ²	738	5.980	34.687	3.16 ²			028	27.329	5.912	85.5	1.2156	1486.6	31.733	2.25	26.7
831*	836	5.365	34.759	3.46			028	27.462	5.292	73.2	1.2933	1485.9	37.951	1.80	33.4
929	934	5.310	34.862	3.87			026	27.550	5.228	66.1	1.3622	1487.4	44.167	1.49	40.4
1027	1033	5.265	34.925	4.23			024	27.606	5.174	62.0	1.4255	1488.9	50.534	1.69	35.5
1125	1132	5.130	34.997	4.74			019	27.679	5.030	56.1	1.4840	1490.1	56.992	1.28	46.9
1222	1230	4.845	34.992	5.00			019	27.708	4.738	53.7	1.5378	1490.6	63.484	1.36	44.2
1320*	1330	4.620	35.007	5.38			017	27.746	4.506	50.6	1.5894	1491.3	70.237	1.47	40.7
1418*	1429	4.215	35.003	5.67			016	27.787	4.096	46.4	1.6375	1491.2	77.010	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1623 22-11-70 23.3 12 19.0 N 61 00 W2 1778

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.72	36.012	4.61			002	23.590	26.720	431.1	.0000	1539.9	.0002	1.85	32.4
29	29	26.68	36.008	4.64			002	23.600	26.673	431.3	.1209	1540.3	.186	3.56	16.8
58	58	26.53	36.072	4.64			002	23.696	26.516	423.4	.2450	1540.5	.7372	6.32	9.5
88	88	26.41	36.499	4.62			002	24.056	26.389	390.3	.3673	1541.2	1.6432	9.91	6.1
97	97	26.19	36.772	4.73			001	24.331	26.167	364.5	.4014	1541.1	1.9652	9.74	6.2
107*	107	24.54	36.487	4.10			002	24.625	24.516	336.8	.4365	1537.2	2.332	8.03	7.5
117	117	23.46	36.324	3.98			002	24.823	23.434	318.2	.4694	1534.5	2.7082	8.50	7.1
127*	127	23.04	36.458	3.90			003	25.047	23.013	297.3	.5003	1533.8	3.093	7.72	7.8
136	136	22.63	36.520	3.63			003	25.212	22.601	281.9	.5264	1533.0	3.445	8.60	7.0
146*	146	22.92	36.935	3.82			002	25.443	22.889	260.4	.5536	1534.4	3.838	9.33	6.4
170	170	19.55	36.564	3.26			004	26.091	19.518	199.2	.6090	1525.5	4.725	4.77	12.6
195*	195	18.20	36.329	2.87			008	26.257	18.165	184.0	.6571	1521.8	5.623	5.49	10.9
243	243	14.48	35.759	3.01			009	26.688	14.443	143.5	.7361	1510.6	7.373	4.04	14.8
292*	293	11.24	35.210	2.85			013	26.914	11.202	121.9	.8015	1499.9	9.154	2.24	26.8
341	342	10.48	35.113	2.75			014	26.976	10.438	116.8	.8604	1497.82	11.062	1.91	31.4
389*	390	9.55	34.957	2.81			016	27.014	9.504	113.5	.9160	1495.02	13.144	2.22	27.0
438	439	8.50	34.815	2.96			018	27.072	8.452	108.1	.9707	1491.8	15.461	1.55	38.8
487*	489	8.90	34.937	2.832			018	27.105	8.845	106.4	1.0235	1494.2	17.973	1.96	30.5
590*	593	7.655	34.812	2.83			022	27.198	7.594	98.1	1.1297	1491.0	23.820	2.14	28.0
688	691	6.415	34.732	2.94			026	27.308	6.350	87.6	1.2214	1487.7	29.815	1.71	35.0
786*	790	5.615	34.684	3.16			029	27.373	5.545	81.5	1.3049	1486.0	36.129	2.11	28.5
835	890	5.555	34.841	3.65			027	27.500	5.505	70.8	1.3809	1487.8	42.637	1.88	31.8
983*	989	5.505	34.951	4.21			022	27.597	5.416	62.8	1.4470	1489.2	48.966	1.75	34.3
1081	1088	5.160	34.992	4.74			020	27.671	5.064	56.3	1.5060	1489.5	55.212	1.37	43.8
1180*	1188	4.930	35.008	5.12			018	27.711	4.827	53.2	1.5607	1490.2	61.577	1.28	47.0
1278	1287	4.635	35.011	5.35			017	27.741	4.574	50.7	1.6122	1490.9	68.083	1.21	49.5
1376	1386	4.425	35.005	5.59			016	27.766	4.308	48.7	1.6615	1491.4	74.812	1.13	52.9
1573*	1586	3.965	34.990	5.902			016	27.803	3.834	45.5	1.7554	1492.8	89.048	.00	.0

SHIP AN CRUISE 056 STATION 1659 DATE 14-III -70 GMT 6.3 LATITUDE 11 37.0 N LONGITUDE 61 58.0 W DEPTH 695

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.04	35.474	4.65			004	23.083	27.040	479.5	.0000	1540.0	.0002	5.14	11.7
34	34	26.72	35.674	4.71			004	23.336	26.712	456.8	.1546	1540.1	.271	11.27	5.3
69	69	24.14	36.466	4.03			003	24.729	24.125	325.3	.2918	1535.6	.952	14.24	4.2
78	78	23.35	36.919	3.75			002	25.306	23.333	270.7	.3187	1534.3	1.154	10.54	5.7
88	88	22.01	36.869	3.60				25.653	21.992	238.0	.3442	1531.1	1.370	9.74	6.2
98	98	20.45	36.692	3.61			004	25.949	20.431	210.1	.3667	1526.9	1.583	7.63	7.9
108	108	19.35	36.545	3.25			004	26.128	19.330	193.3	.3870	1523.9	1.797	7.94	7.6
118*	118	18.14	36.396	3.26			005	26.323	18.119	175.0	.4055	1520.5	2.010	6.38	9.4
127	127	17.21	36.243	3.18			006	26.434	17.188	164.6	.4208	1517.7	2.203	4.34	13.8
137*	137	16.81	36.190	3.08			007	26.490	16.787	159.6	.4371	1516.7	2.423	3.63	16.5
167	167	15.74	36.011	3.11			008	26.602	15.713	149.7	.4837	1513.7	3.148	2.36	25.4
196*	196	15.33	35.942	3.09			008	26.642	15.299	146.8	.5269	1512.8	3.951	2.92	20.5
245	245	13.97	35.702	3.06			009	26.753	13.933	137.2	.5969	1509.0	5.528	2.93	20.5
294*	295	12.91	35.566	2.88			010	26.867	12.868	127.3	.6620	1506.1	7.324	3.40	17.7
343	344	10.27	35.121	2.87			015	27.019	10.228	112.6	.7212	1497.1	9.248	2.57	23.3
392*	393	8.90	34.933	2.80			018	27.101	8.856	104.8	.7748	1492.7	11.267	1.22	49.3
441	443	8.65	34.897	2.77			019	27.113	8.601	104.5	.8264	1492.5	13.475	1.86	32.3
490*	492	8.03	34.835	2.91			021	27.152	8.028	101.1	.8771	1491.0	15.898	1.29	46.5
539*	541	7.885	34.817	2.97			021	27.168	7.828	100.3	.9268	1491.1	18.526	2.38	25.2
637	640	6.105	34.679	3.11			028	27.307	6.046	86.5	1.0191	1485.5	24.066	.00	.0

SHIP AN 7 CRUISE 056 7 STATION 1658 7 DATE 14-1117-70 GMT 3.3 LATITUDE 11 33.0 N LONGITUDE 62 0 W DEPTH 576

DEPTH	PRESS	TEMP	SAL	EX	P04	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT7	SND VEL	P0T EN	V FREQ	PERIOD
7 17	71	26.987	35.166	4.72			005	22.870	26.980	499.8	.0000	1539.6	.000	8.76	6.5
59	59	25.17	36.242	4.15			003	24.248	25.156	370.7	.2528	1537.6	.665	11.30	5.3
107	107	19.147	36.531	3.167			0047	26.7172	19.7120	189.1	.3876	1523.3	1.704	4.79	12.5
1567	1567	16.63	36.154	3.15			0057	26.505	16.7604	158.8	.4733	1516.4	2.8397	3.92	15.3
2057	2057	14.457	35.794	3.08			008	26.7227	14.7419	139.27	.54667	1510.0	4.185	3.30	18.2
2547	2547	12.687	35.510	2.92			010	26.7870	12.644	125.87	.61197	1504.6	5.714	2.46	24.47
303	304	11.827	35.393	2.777			012	26.9477	11.779	119.4	.67247	1502.37	7.4387	2.59	23.2
3277	328	11.007	35.2487	2.86			013	26.9877	10.958	115.7	.7007	1499.6	8.355	3.08	19.5
352	353	9.91	35.081	2.82			0167	27.050	9.7868	109.76	.7297	1495.9	9.3427	3.00	20.0
3717	3727	8.96	34.935	2.837			018	27.0937	8.918	105.2	.7496	1492.5	10.104	2.22	27.1
3817	382	8.787	34.9147	2.807			018	27.106	8.738	104.717	.7602	1492.0	10.5117	1.45	41.3
3917	3927	8.89	34.901	2.817			019	27.110	8.647	103.9	.7706	1491.8	10.926	2.28	26.3
401	4027	8.83	34.886	2.857			0197	27.123	8.486	102.77	.7810	1491.47	11.3497	2.04	29.4
4107	4117	8.29	34.849	2.827			020	27.131	8.246	101.87	.7903	1490.5	11.774	1.48	40.5
4307	4327	8.07	34.817	2.86			021	27.140	8.024	101.27	.8107	1490.07	12.616	1.51	39.7
4497	4517	7.957	34.806	2.85			021	27.149	7.903	100.76	.8300	1489.8	13.487	1.76	34.0
498	500	7.537	34.773	2.97			0227	27.1857	7.479	97.67	.87897	1489.0	15.863	1.97	30.5
5477	5497	6.827	34.702	2.95			025	27.230	6.767	93.4	.9260	1486.9	18.391	.00	.0

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SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1657 14-III -70 1.3 11 27.0 N 61 56.0 W 264

DEPTH	PRESS	TEMP	SAL	OX	PH4	PH6S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.94	35.056	4.72			006	22.800	26.940	506.5	.0000	1539.4	.0000	10.44	5.7
20	20	26.37	35.674	4.45			005	23.446	26.365	445.6	.0905	1539.1	.0920	10.11	5.9
39	39	25.440	36.092	4.20			003	24.052	25.431	388.6	.1699	1537.7	.326	10.48	5.7
58	58	23.92	36.347	3.73			004	24.704	23.907	327.2	.2381	1534.7	.659	10.23	5.9
78	78	23.10	36.894	3.70			002	25.360	23.083	265.0	.2975	1533.7	1.067	9.27	6.5
88	88	22.12	36.876	3.55			0020	25.6270	22.102	240.5	.3229	1531.4	1.282	9.62	6.2
98	98	20.81	36.7770	3.54			003	25.916	20.790	213.3	.3457	1528.0	1.498	6.66	9.0
107	107	20.180	36.714	3.38			003	26.038	20.159	202.0	.3644	1526.4	1.695	6.73	8.9
117	117	19.61	36.6980	3.53				26.0177	19.688	189.1	.3841	1525.0	1.920	6.26	9.5
136	136	17.62	36.3540	3.25			005	26.403	17.666	168.0	.4182	1519.4	2.360	4.60	13.0
156	156	16.60	36.180	3.290			005	26.527	16.594	156.7	.4508	1516.4	2.847	3.14	19.1
195	195	15.49	35.976	3.15			007	26.6320	15.459	147.7	.5104	1513.3	3.918	1.79	33.4
214	214	15.28	35.930	3.17			007	26.644	15.246	147.1	.5386	1512.9	4.508	3.39	17.7
234	234	14.44	35.772	3.19				26.707	14.404	141.4	.5676	1510.4	5.174	5.12	11.7
254	2550	12.305	35.400	3.08			012	26.859	12.270	126.7	.5946	1503.2	5.848	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1656 12-111 -70 8.2 11 38.8 N 61 48.4 W 675

DEPTH	PRESS	TEMP	SAL	0X	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
				0			0		0						
1	1	26.83	35.742	4.56			003	23.352	26.830	453.8	.0000	1539.9	.000	4.58	13.1
15	15	26.69	35.793	4.60			003	23.435	26.686	446.5	.0631	1539.8	.051	6.33	9.5
30*	30	26.310	35.873	4.55			003	23.615	26.303	429.9	.1289	1539.3	.202	5.62	10.7
46	46	26.11	35.988	4.26			003	23.065	26.099	416.3	.1967	1539.3	.4650	12.64	4.7
76	76	22.99	36.738	3.81			003	25.273	22.974	273.7	.3005	1533.2	1.080	8.22	7.3
114	114	19.86	36.043	3.31			003	26.069	19.838	199.2	.3907	1525.5	1.9300	5.61	10.7
151*	151	17.33	36.262	3.13			005	26.420	17.304	166.8	.4587	1518.50	2.043	3.47	17.3
188	188	16.270	36.096	3.22			0060	26.5450	16.239	156.0	.5187	1515.7	3.8820	3.330	18.0
226	2260	15.180	35.924	3.24			007	26.661	15.140	145.80	.5763	1512.8	5.1020	3.27	18.4
263	2640	13.760	35.6650	3.08			0090	26.769	13.7210	136.1	.6288	1508.5	6.4140	3.03	19.8
300	3010	13.240	35.648	2.840			009	26.864	13.197	128.0	.6779	1507.4	7.831	2.95	20.3
373	370	9.800	35.0250	2.90			016	27.0250	9.756	112.4	.7662	1495.8	10.8580	2.95	20.3
446*	448 0	7.470	34.774	2.85			022	27.0195	7.425	95.8	.8426	1487.9	14.052	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1655 12-111 -70 5.5 11 34.5 N 61 46.0 W 0

DEPTH	PRESS	TEMP	SAL	OX	P04	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.85	35.698	4.52			005	23.312	26.850	457.6	.0000	1539.9	.0000	.67	90.2
17	17	26.89	35.702	4.55			006	23.302	26.886	459.2	.0734	1540.2	.0688	7.23	8.3
34	34	26.60	35.939	4.60			003	23.573	26.592	434.1	.1495	1540.1	.264	14.63	4.1
50	50	24.32	36.437	4.10			003	24.653	24.309	331.7	.2102	1535.6	.522	13.69	4.4
67	67	21.93	36.847	3.69			002	25.659	21.916	236.6	.2593	1530.5	.805	8.21	7.3
84*	84	20.23	36.700	3.52			003	26.014	20.214	203.4	.2968	1526.1	1.093	5.81	10.3
101	101	19.28	36.599	3.32			004	26.188	19.261	187.4	.3302	1523.7	1.408	5.73	10.5
118*	118	18.12	36.433	3.28			004	26.356	18.099	171.9	.3609	1520.5	1.751	5.08	11.8
134	134	17.01	36.239	3.28			006	26.480	16.987	160.5	.3876	1517.3	2.095	3.45	17.4
168*	168	15.89	36.044	3.18			006	26.593	15.863	150.7	.4408	1514.2	2.916	3.03	19.6
210	210	14.54	35.787	3.12			008	26.697	14.508	141.7	.5025	1510.3	4.108	3.14	19.1
294	295	11.53	35.290	2.90			013	26.922	11.491	121.4	.6136	1501.0	6.946	2.19	27.5
336	337	11.41	35.229	2.94			012	26.975	11.366	117.4	.6640	1501.3	8.575	3.09	19.4
378	379	9.26	34.977	2.79			016	27.077	9.217	107.1	.7115	1493.8	10.310	2.71	22.1
420*	422	7.99	34.824	2.83			021	27.157	7.946	99.3	.7551	1489.5	12.094	.00	.0

SHIP AN CRUISE C56 STATION 1654 DATE 12-III -70 GMT 3.3 LATITUDE 11 29.6 N LONGITUDE 61 45.1 W DEPTH 183

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.55	35.840	4.47			004	23.515	26.550	438.3	.0000	1539.3	.0003	1.77	33.9
19	19	26.54	35.842	4.41			005	23.519	26.535	438.6	.0790	1539.6	.0813	2.15	27.9
39	39	26.52	35.853	4.47			004	23.534	26.511	438.0	.16683	1539.9	.3413	15.83	3.8
58	58	23.57	36.651	3.91			003	25.038	23.557	295.4	.2366	1534.2	.6753	9.87	6.1
78	78	22.03	36.869	3.54			003	25.648	22.014	238.1	.2902	1530.9	1.042	8.12	7.4
97*	97	20.16	36.703	3.41			003	26.035	20.141	201.9	.3321	1526.2	1.415	5.62	10.7
117	117	19.37	36.680	3.57			005	26.226	19.348	184.4	.3709	1524.3	1.838	4.10	14.6
137*	137	18.55	36.530	3.38			003	26.322	18.525	175.8	.4071	1522.1	2.309	5.84	10.3
157	157	16.51	36.146	3.11			006	26.527	16.484	156.7	.4405	1516.0	2.810	4.05	14.8
178*	178	15.49	35.969	3.25			008	26.626	15.461	147.7	.4726	1513.0	3.361	.00	.0

SHIP AN CRUISE 056 STATION 1653 DATE 3-III -70 GMT 17.6 LATITUDE 13 53.0 N LONGITUDE 58 44.0 W DEPTH 3712

DEPTH	PRESS	TEMP	SAL	OX	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.53	35.998	4.80			002	23.640	26.530	426.3	.0000	1539.5	.0003	3.43 ³	17.5
23	23	26.33	36.002	5.43			002	23.706	26.324	420.9	.0933	1539.4	.1143	6.11	9.8
46	46	26.31	36.334	5.03			002	23.963	26.299	397.4	.1876	1540.1	.444	4.87	12.3
69	69	26.38	36.572	4.78			002	24.120	26.363	383.4	.27763	1540.9	.972	11.53	5.2
92	92	24.81	37.196	4.66			001	25.079	24.789	293.0	.3556	1538.4	1.603	8.18	7.3
139*	139	20.68	36.906	3.79			002	26.050	20.652	202.2	.4724	1528.5	2.933	5.27	11.4
185	185	18.14	36.536	3.99			003	26.430	18.107	167.2	.5578	1521.8	4.332	3.84	15.6
231*	231	16.43	36.246	3.80			004	26.623	16.391	150.1	.6311	1517.1	5.887	3.44	17.4
277	278	14.68	35.925	3.26			007	26.773	14.637	136.6	.6974	1512.0	7.608	3.15	19.0
324*	325	12.93	35.610	2.74			010	26.897	12.884	125.3	.7593	1506.7	9.511	2.84	21.1
370	371	11.74	35.436	2.64				26.995	11.690	116.5	.8153	1503.2	11.499	2.52	23.8
463*	465	9.28	35.064	2.70			017	27.142	9.226	102.8	.9179	1495.4	15.857	2.00	30.1
556	558	7.80	34.873	2.82			022	27.227	7.742	95.0	1.0105	1491.1	20.689	1.97	30.4
650*	653	6.29	34.711	2.94			027	27.308	6.229	86.8	1.0967	1486.5	26.008	1.49	40.2
744	748	5.72	34.675	2.99			029	27.352	5.653	83.0	1.1772	1485.7	31.767	1.61	37.3
833*	843	5.385	34.698	3.14			031	27.412	5.311	78.1	1.2535	1486.0	37.969	1.50	39.9
934	940	5.260	34.748	3.35			030	27.466	5.178	73.9	1.3271	1487.1	44.666	1.74	34.5
1031*	1038	5.205	34.841	3.67			028	27.546	5.114	67.4	1.3963	1488.6	51.646	1.57	38.1
1257*	1266	4.935	34.780	4.71			021	27.688	4.824	56.2	1.5375	1491.5	68.117	1.37	43.9
1442	1453	4.505	35.008	5.34			018	27.759	4.380	50.2	1.6370	1492.9	81.901	1.16	51.8
1675*	1689	3.975	34.995	6.07			016	27.806	3.834	46.2	1.7507	1494.6	100.116	.99	60.5
1910	1927	3.635	34.983	6.72			018	27.832	3.476	44.4	1.8587	1497.1	120.048	1.00	60.0
2146*	2167	3.290	34.970	5.92			022	27.855	3.114	42.4	1.9627	1499.6	141.789	.96	62.2
2323	2407	2.970	34.953	5.96			025	27.872	2.776	40.8	2.0629	1502.3	165.201	.90	66.3
2621*	2650	2.745	34.941	6.02			0263	27.883	2.531	40.0	2.1607	1505.4	190.461	.85	70.8
2860	2893	2.590	34.930	6.07			027	27.888	2.355	39.9	2.2578	1508.8	217.973	.77	77.8
3053*	3086	2.545	34.925	6.06			027	27.888	2.290	40.6	2.3357	1511.9	241.782	.82	73.1
3240*	3280	2.515	34.927	6.06			0283	27.892	2.241	41.0	2.4147	1515.1	267.501	.79	76.1
3520*	3566	2.450	34.915	6.43			029	27.888	2.146	42.2	2.5337	1519.6	309.147	.003	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1652 26-11-70 10.8 15 51.0 N 61 0 W 1222

DEPTH	PRESS	TEMP	SAL	ΘX	PΘ4	PHΘS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.54	35.973	4.56			002	23.618	26.540	428.4	.0000	1539.5	.0006	.75	79.8
29	29	26.58	35.969	4.58			002	23.602	26.573	431.1	.1205	1540.0	.186	4.52	13.3
68	68	26.27	36.138	4.43			002	23.828	26.254	411.2	.2851	1540.1	.9956	4.23	14.2
78	78	26.22	36.183	4.37			002	23.877	26.201	406.9	.3261	1540.2	1.3016	11.83	5.1
88	88	25.62	36.516	4.18			002	24.316	25.599	365.5	.3648	1539.4	1.6296	12.89	4.7
98*	98	24.63	36.806	4.11			002	24.839	24.608	316.1	.3990	1537.6	1.953	9.61	6.2
107	107	23.76	36.803	3.98			002	25.097	23.736	291.8	.4264	1535.7	2.241	8.10	7.4
117*	117	23.69	37.044	4.02			001	25.300	23.664	272.9	.4547	1535.9	2.566	7.34	8.2
127	127	22.92	36.764	3.74			002	25.465	22.893	257.5	.4814	1534.1	2.898	7.62	7.9
136*	136	22.05	36.847	3.44			002	25.625	22.022	242.5	.5039	1531.9	3.202	6.73	8.9
166	166	19.99	36.648	3.38			003	26.039	19.958	204.1	.5712	1526.8	4.234	6.07	9.9
195*	195	18.10	36.433	3.34			004	26.361	18.065	174.1	.6263	1521.7	5.247	4.57	13.1
244	244	15.65	36.060	3.11			006	26.660	15.610	146.6	.7053	1514.7	7.008	3.69	16.3
292*	293	13.60	35.717	2.84			009	26.843	13.557	129.9	.77216	1508.5	8.834	2.65	22.7
341	342	12.18	35.460	2.73			011	26.930	12.133	122.2	.83426	1504.2	10.847	2.49	24.1
390*	391	11.32	35.350	2.67			013	27.008	11.269	115.5	.89296	1501.9	13.043	2.64	22.7
439	441	9.91	35.137	2.66			016	27.093	9.857	107.4	.94786	1497.4	15.378	2.23	26.9
488*	490	8.53	34.917	2.76			019	27.147	8.476	102.0	.99956	1492.8	17.834	1.97	30.5
535*	537	7.715	34.811	2.91			021	27.188	7.659	98.2	1.0463	1490.4	20.322	1.84	32.5
583	586	7.210	34.766	2.91			023	27.226	7.151	94.8	1.0936	1489.1	23.000	1.89	31.8
631*	634	6.725	34.732	2.87			025	27.266	6.664	91.1	1.1385	1488.0	25.802	1.52	39.5
680	683	6.240	34.677	2.99			027	27.288	6.176	89.1	1.1830	1486.8	28.799	1.58	38.1
728*	732	5.860	34.647	3.00			028	27.313	5.794	86.8	1.2256	1486.0	31.878	1.57	38.2
777	781	5.685	34.656	3.09			029	27.342	5.615	84.4	1.2679	1486.1	35.148	1.83	32.7
825*	830	5.4206	34.666	3.14			030	27.382	5.347	80.7	1.3078	1485.9	38.439	1.47	40.9
874	879	5.310	34.681	3.22			030	27.407	5.233	78.86	1.3473	1486.2	41.883	1.94	30.9
970*		5.405		3.55			022								
1067	1074	5.400	34.961	4.24			019	27.618	5.303	61.7	1.4841	1490.2	55.383	1.69	35.6
1163*	1171	5.065	34.993	4.85				27.683	4.962	55.96	1.5412	1490.5	61.916	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1651 26 II -70 8.3 15 44.0 N 60 59.0 W 1298

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.55	35.986	4.68			002	23.625	26.550	427.8	.0000	1539.5	.0002	1.12	53.5
29	29	26.58	35.986	4.69			002	23.615	26.573	429.9	.1203	1540.0	.1852	6.56	9.1
63	63	25.61	36.254	4.33			002	24.121	25.594	383.2	.2791	1538.8	.9562	9.96	6.0
73	73	25.29	36.533	4.16			002	24.431	25.272	354.1	.3161	1538.5	1.231	9.97	6.0
88	88	24.91	36.789	4.18			002	24.741	24.890	325.0	.3501	1538.1	1.520	7.19	8.3
93*	93	24.452	36.813	4.51			003	24.898	24.428	310.4	.3820	1537.2	1.823	13.21	4.5
107	107	23.28	37.007	4.01			001	25.393	23.257	263.6	.40792	1534.7	2.094	7.74	7.8
117*	117	22.41	36.918	3.67			002	25.577	22.385	246.4	.43352	1532.6	2.388	8.01	7.5
127	127	21.52	36.848	3.72			002	25.775	21.494	227.9	.45732	1530.4	2.685	7.00	8.6
136*	136	20.62	36.700	3.73			003	25.909	20.593	215.3	.47742	1528.0	2.955	5.51	10.9
166	166	18.90	36.462	3.29			004	26.181	18.869	190.3	.5385	1523.5	3.895	6.12	9.8
195*	195	16.51	36.123	3.37			006	26.509	16.477	159.6	.58952	1516.6	4.832	3.76	16.0
244	244	14.93	35.911	3.26			007	26.707	14.892	141.9	.66382	1512.3	6.493	3.29	18.2
292*	293	13.26	35.635	2.94			009	26.849	13.213	129.1	.7292	1507.3	8.285	2.50	24.0
341	342	12.18	35.456	2.99			011	26.926	12.133	122.5	.7912	1504.2	10.295	2.722	22.1
390*	391	10.37	35.141	2.94			014	27.017	10.322	113.9	.8495	1498.3	12.478	2.53	23.7
439	441	9.92	35.151	2.67			016	27.103	9.867	106.6	.9039	1497.5	14.788	2.222	27.1
488*	490	8.89	35.005	2.65			018	27.159	8.835	101.3	.9552	1494.3	17.226	2.212	27.1
517*	519	8.25	34.919	2.76			019	27.192	8.194	98.0	.9843	1492.2	18.728	2.14	28.0
564	567	7.28	34.799	2.82			022	27.242	7.223	93.1	1.0295	1489.1	21.238	1.59	37.7
611*	614	6.75	34.735	3.212			025	27.265	6.691	90.9	1.0731	1487.7	23.867	1.33	43.4
653	661	6.495	34.714	3.212			026	27.283	6.432	89.6	1.1159	1487.5	26.655	1.67	36.0
705*	709	6.140	34.692	2.962			027	27.313	6.074	87.0	1.1577	1486.8	29.584	1.85	32.5
752	756	5.720	34.672	3.22			029	27.350	5.652	83.4	1.1981	1485.9	32.605	1.57	38.3
846*	851	5.290	34.673	3.212			031	27.403	5.216	78.7	1.2749	1485.7	38.910	1.56	38.4
940	946	5.240	34.742	3.442			029	27.464	5.157	74.1	1.3474	1487.1	45.561	1.96	30.6
1081*	1083	5.290	34.948	4.342			022	27.621	5.193	61.3	1.4439	1490.0	55.522	1.82	33.0
1175	1183	4.935	35.002	4.942			019	27.700	4.881	54.3	1.4988	1490.4	61.882	1.35	44.5
1298*	1308	4.640	35.008					27.744	4.528	50.6	1.5640	1491.0	70.170	.00	.0

SHIP AN CRUISE 056 STATION 1650 DATE 26-11-70 GMT 5.4 LATITUDE 15 33.0 N LONGITUDE 60 59.0 W DEPTH 1346

DEPTH	PRESS	TEMP	SAL	OX	P04	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.30	35.872	5.21			002	23.618	26.300	428.5	.0000	1538.8	.000	6.04	9.9
30	30	25.93	36.138	4.56			002	23.934	25.923	399.5	.1203	1538.7	.185	9.65	6.2
69	69	23.72	36.745	3.83			002	25.065	23.705	293.3	.2557	1534.9	.830	7.82	7.7
79	79	23.74	37.002	3.92			001	25.254	23.722	275.8	.2842	1535.4	1.046	7.42	8.1
89	89	23.18	37.008	3.80			002	25.423	23.161	260.0	.3111	1534.2	1.277	8.35	7.2
99	99	22.22	36.928	3.56			002	25.638	22.199	239.8	.3362	1531.8	1.518	5.14	11.7
109	109	21.97	36.938	3.63			002	25.717	21.947	232.8	.3599	1531.4	1.771	3.93	15.3
119	119	21.84	36.947	3.64			002	25.760	21.815	229.0	.3831	1531.2	2.041	5.42	11.1
128	128	21.22	36.823	3.40			002	25.839	21.194	221.8	.4035	1529.6	2.299	5.61	10.7
138	138	20.39	36.649	3.82			003	25.932	20.363	213.2	.4254	1527.4	2.597	6.88	8.7
168	168	17.55	36.262	3.16			005	26.366	17.521	172.5	.4835	1519.4	3.499	4.05	14.8
198	198	16.16	36.014	3.11			007	26.507	16.127	159.8	.5336	1515.5	4.437	3.50	17.2
247	247	15.11	35.924	3.10			007	26.677	15.071	144.9	.6086	1512.9	6.141	3.60	16.7
296	297	12.57	35.458	3.04			010	26.851	12.529	128.6	.6760	1504.8	8.009	2.71	22.1
346	347	11.85	35.406	3.16			012	26.951	11.803	120.1	.7386	1503.1	10.065	2.38	25.3
395	396	10.99	35.289	2.73			013	27.021	10.939	114.1	.7964	1500.8	12.259	2.26	26.6
445	447	9.990	35.140	2.92			016	27.082	9.936	108.7	.8525	1497.8	14.675	2.08	28.8
494	496	9.110	35.014	2.78			018	27.131	9.053	104.3	.9050	1495.2	17.206	2.28	26.3
540	542	8.085	34.860	2.77			021	27.187	8.027	93.8	.9520	1491.9	19.702	2.26	26.5
589	592	7.085	34.766	2.82			024	27.246	7.006	92.8	.9993	1488.7	22.442	1.98	30.2
638	641	6.395	34.707	2.94			026	27.291	6.335	88.4	1.0441	1486.7	25.261	1.77	33.8
687	691	5.655	34.626	3.10			029	27.322	5.594	85.1	1.0869	1484.5	28.177	1.65	36.4
736	740	5.320	34.613	3.16			031	27.352	5.256	82.3	1.1283	1483.9	31.200	1.33	45.2
785	789	5.595	34.689	3.32			029	27.379	5.525	80.9	1.1686	1485.9	34.351	1.51	39.7
883	888	5.415	34.731	3.32			029	27.434	5.337	76.6	1.2464	1486.9	41.018	2.03	29.6
982	988	5.285	34.857	3.80			027	27.550	5.198	66.7	1.3180	1488.2	47.864	1.81	33.1
1080	1087	5.265	34.968	4.90			021	27.640	5.168	59.5	1.3805	1489.9	54.476	1.59	37.8
1178	1186	4.955	34.994	4.97			019	27.697	4.851	54.5	1.4370	1490.3	61.025	1.38	43.3
1325	1335	4.540	35.007	5.44			017	27.755	4.426	49.6	1.5143	1491.0	70.968	.00	.0

SHIP AN CRUISE 056 STATION 1649 DATE 26- II -70 GMT 3.0 LATITUDE 15 28.0 N LONGITUDE 60 55.0 W DEPTH 1465

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.56	35.789	4.55			002	23.473	26.560	442.3	.0000	1539.3	.0003	1.74	34.5
29	29	26.64	35.831	4.68			002	23.479	26.633	442.8	.12413	1540.0	.191	11.45	5.2
68	68	24.02	36.885	3.94			002	25.082	24.005	291.7	.2677	1535.7	.8453	7.66	7.8
78	78	23.59	36.955	3.84			002	25.262	23.573	274.9	.29613	1534.9	1.0573	9.36	6.4
87	87	22.66	36.921	3.63			002	25.507	22.641	251.9	.3199	1532.7	1.2573	8.01	7.5
97*	97	21.88	36.890	3.65			002	25.706	21.860	233.3	.3442	1530.9	1.486	3.39	17.7
107	107	21.73	36.875	3.62			002	25.736	21.708	230.8	.3675	1530.7	1.730	6.23	9.6
117*	117	20.93	36.738	3.48			003	25.854	20.907	219.9	.3902	1528.6	1.989	6.15	9.8
1273	127	20.31	36.668	3.44			003	25.968	20.285	209.3	.4117	1527.0	2.259	7.47	8.0
136*3	136	19.53	36.617	3.36			003	26.1233	19.554	194.9	.4300	1525.1	2.505	5.37	11.2
1653	166	17.85	36.379	3.27			004	26.3823	17.920	171.0	.4851	1520.4	3.353	3.44	17.4
195*3	195	17.01	36.236	3.30			005	26.4773	16.977	162.8	.5333	1518.3	4.252	4.27	14.0
245	245	14.48	35.828	3.05			008	26.7413	14.442	138.5	.6095	1510.8	5.946	2.18	27.5
294*3	295	14.15	35.809	3.03			008	26.7983	14.106	134.5	.6768	1510.5	7.804	3.08	19.5
344	345	12.63	35.568	2.91			010	26.9253	12.582	123.0	.7416	1506.0	9.918	2.96	20.3
393*	394	10.770	35.257	2.76			014	27.036	10.720	112.5	.7997	1499.9	12.109	2.20	27.3
443	445	9.740	35.099	2.76			016	27.0933	9.687	107.4	.8550	1496.8	14.482	1.74	34.43
492*	494	9.160	35.016	2.763			018	27.1243	9.103	104.9	.9074	1495.4	16.996	.51	118.1
502*	504	9.235	35.029	2.77			018	27.122	9.127	105.4	.91803	1495.8	17.537	1.953	30.8
552	554	8.440	34.920	2.76			020	27.164	8.379	101.6	.97013	1493.5	20.357	2.46	24.4
601*	604	7.530	34.831	2.76			023	27.239	7.468	94.3	1.0185	1490.8	23.217	1.93	31.1
650	653	6.660	34.734	2.87			026	27.277	6.597	90.3	1.0641	1488.0	26.145	1.81	33.1
749*	753	5.880	34.702	3.01			028	27.354	5.812	83.3	1.1507	1486.5	32.358	1.81	33.1
847	852	5.540	34.754	3.35			028	27.437	5.464	76.1	1.2295	1486.8	38.805	1.93	31.0
946*	952	5.325	34.849	3.72			026	27.538	5.241	67.4	1.3012	1487.7	45.398	1.76	34.0
1044	1051	5.295	34.951	4.29			023	27.623	5.202	60.7	1.3646	1489.4	51.875	1.46	41.0
1143*	1151	5.090	34.932	4.70			021	27.672	4.983	56.8	1.4234	1490.2	53.482	1.64	36.5
1241	1250	4.715	35.004	5.32			017	27.733	4.608	51.2	1.4769	1490.4	65.039	1.23	48.7
1438*	1449	4.200	34.998	5.77			016	27.785	4.079	46.8	1.5746	1491.5	78.475	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1648 26-11-70 1.1 15 24.0 N 60 52.0 W 1352

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.56	35.826	4.60			002	23.501	26.560	439.6	.0000	1539.3	.000	3.20	18.8
30	30	26.70	35.982	4.62			002	23.574	26.693	433.8	.12682	1540.3	.200	10.26	5.8
69	69	24.74	36.371	4.16			002	24.854	24.724	313.4	.27292	1537.4	.893	8.08	7.4
79	79	24.18	36.914	3.99			002	25.056	24.162	294.6	.30342	1536.3	1.124	8.03	7.5
89	89	22.90	36.678	3.66			003	25.254	22.881	276.1	.33202	1533.1	1.370	10.47	5.7
98*	98	21.97	36.735	3.52			003	25.563	21.950	247.0	.35562	1531.0	1.595	6.46	9.3
108	108	21.66	36.788	3.51			003	25.690	21.638	235.2	.3798	1530.4	1.851	7.82	7.7
118*	118	20.73	36.699	3.42			003	25.879	20.707	217.6	.40262	1528.0	2.113	8.89	6.7
128	128	21.63	36.687	3.44			003	25.622	21.604	242.5	.42572	1530.5	2.405	12.54	4.8
138*	138	19.59	36.610	3.42			003	26.115	19.564	195.7	.44772	1525.2	2.704	6.24	9.6
167	167	17.29	36.298	3.27			005	26.457	17.261	163.8	.50012	1518.7	3.516	3.37	17.8
197*	197	16.51	36.178	3.26			005	26.552	16.477	155.7	.5482	1516.7	4.413	3.21	18.7
246	246	15.27	35.987	3.16			007	26.690	15.231	143.8	.62202	1513.5	6.082	3.62	16.5
296	297	13.10	35.622	3.21			010	26.872	13.058	127.0	.69012	1506.8	7.964	2.84	21.1
345	346	11.69	35.399	2.73			012	26.976	11.644	117.6	.75042	1502.5	9.942	2.41	24.9
394*	395	10.565	35.224	2.75			015	27.047	10.516	111.3	.80682	1499.2	12.081	1.45	41.3
443	445	10.190	35.163	2.77			015	27.065	10.136	110.4	.86152	1498.5	14.431	1.72	34.9
492*	494	9.780	35.113	2.91			016	27.097	9.721	108.1	.91542	1497.8	17.018	2.12	28.3
639*	642	7.090	34.771	3.00			024	27.247	7.026	93.6	1.0648	1489.6	25.616	1.98	30.3
688	692	6.530	34.731	2.99			026	27.292	6.464	89.3	1.1099	1488.1	28.694	2.05	29.3
737*	741	5.9102	34.690	3.05			029	27.340	5.843	84.4	1.1528	1486.4	31.833	1.67	35.9
786	790	5.3352	34.634	3.27			031	27.367	5.266	81.5	1.1938	1484.8	35.042	2.11	28.4
836*	841	5.470	34.741	3.37			029	27.435	5.396	76.0	1.2336	1486.3	38.351	1.92	31.2
885	890	5.310	34.778	3.55			0292	27.484	5.232	71.7	1.2701	1486.6	41.582	1.89	31.7
934*	940	5.380	34.854	3.73			0272	27.536	5.297	67.7	1.3046	1487.8	44.805	1.83	32.9
983	989	5.335	34.904	4.00			0252	27.581	5.247	64.0	1.3371	1488.5	48.014	1.36	44.1
1081*	1088	5.190	34.934	4.31			0242	27.622	5.094	61.0	1.3990	1489.5	54.576	1.61	37.2
1180	1188	5.0252	34.991	4.75			0202	27.686	4.921	55.7	1.4573	1490.6	61.356	1.59	37.7
1278*	1287	4.6452	35.005	5.32			0172	27.741	4.535	50.6	1.5100	1490.7	68.011	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1647 25 II 70 23.2 15 20.0 N 60 47.0 W 1496

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.58	35.860	4.78			002	23.520	26.580	437.8	.0000	1539.4	.000	3.25	18.5
30	30	26.64	35.986	4.85			002	23.596	26.633	431.7	.1263	1540.22	.199	10.15	5.9
69	69	24.61	36.811	4.25			002	24.848	24.594	313.9	.2720	1537.1	.892	10.00	6.0
73	79	24.02	36.989	4.05			002	25.160	24.002	284.6	.3020	1536.0	1.119	6.03	9.9
89	89	23.58	36.961	3.79			002	25.270	23.560	274.6	.3301	1535.1	1.360	8.11	7.42
95*	98	23.00	36.978	3.89			002	25.452	22.979	257.6	.3541	1533.8	1.590	7.15	8.4
108	108	22.25	36.900	3.76			002	25.609	22.227	243.0	.3793	1532.0	1.855	6.24	9.6
113*	118	21.69	36.847	3.56			003	25.726	21.566	232.2	.4031	1530.7	2.130	8.21	7.3
128	128	20.29	36.616	3.36			003	25.934	20.265	212.6	.4255	1526.9	2.412	6.81	8.8
138*	138	19.47	36.517	3.13			004	26.076	19.444	199.4	.4461	1524.7	2.693	5.39	11.1
167	167	18.29	36.452	3.32			004	26.328	18.260	176.3	.5009	1521.8	3.544	4.61	13.0
197*	197	16.92	36.258	3.29			005	26.516	16.886	159.2	.5515	1518.1	4.484	4.06	14.8
246	246	14.79	35.924	3.20			007	26.748	14.752	138.1	.6247	1511.9	6.135	2.94	20.4
295*	296	13.22	35.638	2.93			009	26.860	13.177	128.2	.6903	1507.2	7.950	2.72	22.0
345	346	11.90	35.425	2.77			012	26.956	11.853	119.6	.7526	1503.3	9.992	2.46	24.4
394*	395	10.83	35.265	2.69			014	27.031	10.780	113.0	.8100	1500.2	12.164	2.33	25.8
443	445	8.38	34.806	2.98			019	27.084	8.332	107.0	.8643	1491.4	14.493	1.87	32.2
492*	494	8.07	34.800	2.83			020	27.126	8.018	103.6	.9162	1491.0	16.986	1.80	33.3
567*	570	7.715	34.810	2.83			022	27.187	7.656	98.8	.9927	1490.9	21.138	1.86	32.3
616	619	6.855	34.698	2.92			025	27.222	6.795	95.2	1.0405	1488.2	24.047	1.53	39.2
665	668	6.750	34.715	2.94			025	27.250	6.685	93.2	1.0871	1488.6	27.109	1.90	31.6
715	719	6.395	34.711	2.99			027	27.294	6.327	89.2	1.1331	1488.0	30.369	1.41	42.4
764*	768	6.275	34.719	2.99			027	27.316	6.203	87.6	1.1768	1488.4	33.691	1.89	31.7
813	818	5.850	34.702	3.210			028	27.357	5.775	83.7	1.2191	1487.5	37.122	2.41	24.9
911*	917	5.340	34.524	3.71			027	27.517	5.259	69.1	1.2946	1487.2	43.783	1.65	36.3
1009	1015	5.240	34.898	3.89			026	27.587	5.151	63.4	1.3602	1488.5	50.245	1.54	39.1
1204*	1212	4.915	34.992	5.03			019	27.700	4.809	54.4	1.4763	1490.5	63.382	1.32	45.4
1399	1410	4.405	35.003	5.59			016	27.766	4.286	48.8	1.5781	1491.7	76.970	.86	70.1
1496*	1508	4.320	34.999	5.74			016	27.773	4.192	48.9	1.6261	1493.0	84.124	.00	.0

SHIP AN CRUISE 056 STATION 1646 DATE 25- II -70 GMT 21.3 LATITUDE 15 14.0 N LONGITUDE 60 45.0 W DEPTH 1810

DEPTH	PRESS	TEMP	SAL	OX	PO ₄	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.67	35.916	5.48			002	23.534	26.670	436.5	.0000	1539.7	.000	3.02	19.8
30	30	26.74	36.029	4.81			002	23.597	26.733	431.7	.1261	1540.5	.1992	9.40	6.4
69	69	24.78	36.638	3.96			002	24.666	24.764	331.3	.2752	1537.3	.9162	9.37	6.4
79	79	24.14	36.744	3.83			002	24.939	24.122	305.7	.3071	1536.0	1.157	8.97	6.7
89	89	22.94	36.607	3.62			003	25.188	22.921	282.3	.3366	1533.1	1.410	9.10	6.6
99*	99	22.64	36.833	3.61			002	25.446	22.619	258.1	.3637	1532.8	1.671	7.59	7.9
109	109	21.52	36.649	3.55			003	25.623	21.498	241.6	.3888	1529.9	1.938	8.65	6.9
119*	119	20.54	36.601	3.66			004	25.856	20.517	219.8	.4120	1527.4	2.208	5.68	10.6
128	128	20.12	36.568	3.45			004	25.943	20.095	211.8	.4315	1526.4	2.454	7.95	7.5
138*	138	19.17	36.497	3.28			004	26.138	19.144	193.4	.4518	1523.9	2.731	5.10	11.3
168	168	18.17	36.469	3.47			004	26.371	18.140	172.2	.5069	1521.5	3.591	4.22	14.2
198*	198	16.85	36.249	3.48			005	26.525	16.816	158.3	.5568	1517.8	4.523	3.55	16.9
247	247	15.50	36.066	3.32			006	26.699	15.460	143.0	.6310	1514.3	6.207	3.27	18.4
296*	297	13.00	35.551	3.21			010	26.837	12.958	130.2	.6983	1506.4	8.075	3.07	19.5
346	347	10.70	35.144	3.16			014	26.961	10.657	118.5	.7609	1498.7	10.129	2.35	25.5
395*	396	9.36	34.932	3.04			016	27.026	9.314	112.4	.8178	1494.4	12.290	2.11	28.4
445	447	8.54	34.833	3.00			019	27.080	8.491	107.5	.8732	1492.0	14.675	2.06	29.1
494*	496	7.92	34.778	2.93			021	27.132	7.868	103.0	.9251	1490.4	17.177	1.91	31.4
541*	543	7.22	34.693	3.18			023	27.171	7.166	99.3	.9730	1488.4	19.720	1.76	34.0
590	593	7.06	34.719	3.14			024	27.210	7.001	96.2	1.0212	1488.6	22.523	1.86	32.2
639*	642	6.625	34.695	2.99			026	27.251	26.5632	92.5	1.0678	1487.7	25.464	1.51	39.7
688	692	5.885	34.594	3.11			028	27.268	5.823	90.5	1.1130	1485.4	25.546	1.69	35.5
738*	742	5.920	34.650	3.28			028	27.308	5.852	87.5	1.1579	1486.4	31.833	1.49	40.2
787	791	5.915	34.685	3.37			028	27.336	5.8432	85.5	1.2006	1487.3	35.183	2.27	26.4
885*	890	5.415	34.783	3.49			028	27.475	5.3362	72.8	1.2789	1487.0	41.880	1.75	34.4
984	990	5.315	34.871	4.15			026	27.557	5.2272	66.1	1.3483	1488.4	48.537	1.60	37.4
1180*	1188	5.005	34.985	5.09			020	27.684	4.9012	55.9	1.4691	1490.5	61.890	1.37	43.7
1377	1387	4.490	35.007	5.65			016	27.760	4.372	49.4	1.5740	1491.7	75.637	1.05	57.3
1623*	1636	4.055	34.993	5.91			015	27.796	3.9182	47.0	1.6940	1494.0	94.152	.00	.0

SHIP AN CRUISE 056 STATION 1645 DATE 25- II -70 GMT 19.2 LATITUDE 15 10.0 N LONGITUDE 60 43.0 W DEPTH 1704

DEPTH	PRESS	TEMP	SAL	θX	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.68	35.778	4.62			002	23.427	26.680	446.7	.0000	1539.6	.000	3.48	17.2
30	30	26.58	35.856	4.61			002	23.517	26.573	439.3	.1286	1539.9	.2033	8.36	7.2
69	69	25.46	36.505	4.22			002	24.357	25.444	360.8	.2850	1538.7	.964	8.24	7.3
79	79	25.15	36.656	4.26			002	24.567	25.132	341.2	.3202	1538.3	1.230	8.73	6.9
89	89	24.27	36.615	3.89			002	24.803	24.250	319.1	.3533	1536.4	1.515	11.48	5.2
99	99	23.24	36.758	3.76			002	25.216	23.218	280.1	.3833	1534.2	1.803	8.46	7.1
109	109	22.46	36.753	3.62			003	25.437	22.437	259.4	.41043	1532.4	2.091	6.51	9.2
118*	118	21.92	36.704	3.54			003	25.553	21.896	248.6	.43333	1531.1	2.357	5.733	10.5
128	128	21.30	36.606	3.43			003	25.652	21.274	239.6	.45793	1529.6	2.666	7.14	8.4
132*	138	20.79	36.628	3.32			003	25.808	20.763	225.0	.4812	1528.4	2.984	6.20	9.7
168	168	19.24	36.547	3.31			004	26.158	19.208	192.6	.54413	1524.6	3.963	5.53	10.8
197*	197	17.20	36.226	3.20			005	26.424	17.166	168.0	.5967	1518.8	4.941	4.29	14.0
247	247	14.43	35.746	3.10			008	26.639	14.392	143.5	.67493	1510.5	6.708	3.54	17.0
296*	297	12.89	35.554	2.87			010	26.862	12.848	127.8	.74183	1506.0	8.561	2.54	23.6
346	347	11.51	35.312	2.86			012	26.943	11.464	120.7	.80433	1501.8	10.615	2.50	24.0
395*	396	9.650	34.980	2.86			016	27.015	9.603	113.6	.86213	1495.5	12.809	2.28	26.3
444	446	8.80	34.884	2.77			019	27.079	8.750	107.9	.91673	1493.1	15.159	2.17	27.7
494*	496	7.700	34.739	2.85			021	27.134	7.649	102.5	.96973	1489.5	17.707	1.69	35.6
542*	544	7.270	34.699	2.91			022	27.165	7.215	100.0	1.0187	1488.6	20.311	1.70	35.3
591	594	6.900	34.675	2.90			024	27.197	6.842	97.2	1.0673	1487.9	23.142	1.94	31.0
640*	643	6.440	34.653	2.96			026	27.242	6.379	93.1	1.1143	1486.9	26.110	1.51	39.7
689	692	6.125	34.631	3.01			027	27.266	6.061	91.0	1.1598	1486.43	29.214	1.72	35.0
738*	742	5.835	34.628	3.04			029	27.301	5.768	88.0	1.2040	1486.1	32.456	1.57	38.2
788	792	5.515	34.612	3.11			030	27.323	5.445	85.5	1.2477	1485.6	35.886	2.15	27.9
886*	891	5.520	34.781	3.47			028	27.461	5.440	74.3	1.3267	1487.4	42.662	1.86	32.3
985	991	5.275	34.859	3.72			027	27.552	5.188	66.5	1.3971	1488.2	49.415	1.57	38.3
1182*	1190	5.030	34.988	4.373			020	27.676	4.985	56.8	1.5199	1490.9	63.006	1.53	39.2
1378	1388	4.325	35.000	5.47			016	27.773	4.209	47.7	1.6235	1491.0	76.578	.97	62.1
1674	1688	3.940	34.990	5.89			015	27.806	3.800	46.1	1.7641	1494.4	98.650	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 '056 1644 25-11-70 16.8 15 6.0 N 60 37.0 W 1847

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.56	35.738	4.58			003	23.435	26.560	445.9	.0000	1539.3	.000	4.56	13.2
29	29	26.66	35.999	4.67			002	23.599	26.653	431.4	.1230	1540.2	.186	4.63	13.0
68	68	26.29	36.159	4.42			002	23.837	26.274	410.3	.2874	1540.2	.394	10.73	5.6
77	77	25.65	36.323	4.25			002	24.161	25.632	379.8	.3231	1539.1	1.258	12.02	5.0
87	87	24.17	36.326	4.00			002	24.614	24.150	336.9	.3590	1535.8	1.559	8.74	6.9
97*	97	23.77	36.482	3.99			002	24.851	23.749	314.8	.3917	1535.1	1.866	6.68	9.0
106	106	24.05	36.754	4.00			002	24.974	24.026	303.5	.4196	1536.3	2.156	5.30	11.3
116*	116	23.83	36.777	3.91			003	25.056	23.804	296.0	.4497	1535.3	2.498	7.07	8.5
126	126	23.31	36.776	3.80			002	25.209	23.283	281.9	.4787	1534.8	2.857	8.70	6.9
136	136	23.03	36.979	3.81			002	25.444	23.001	259.9	.5058	1534.5	3.221	9.77	6.1
165	165	18.19	36.387	3.18			005	26.304	18.160	178.5	.5697	1521.4	4.188	5.05	11.9
194*	194	16.02	35.991	3.13			007	26.522	15.988	158.2	.6187	1515.0	5.086	3.70	16.2
242	242	13.81	35.598	3.10			009	26.707	13.774	141.4	.6910	1508.3	6.693	3.37	17.8
290*	291	11.60	35.223	3.25			012	26.857	11.562	127.5	.7560	1501.1	8.456	2.52	23.8
339	340	10.62	35.097	2.93			014	26.938	10.578	120.4	.8170	1498.3	10.423	2.74	21.9
387*	388	9.28	34.924	2.87			017	27.033	9.235	111.5	.8731	1494.0	12.505	2.34	25.6
436	438	8.625	34.880	2.76			019	27.104	8.577	105.2	.9265	1492.3	14.760	1.96	30.6
484*	486	7.745	34.762	2.80			021	27.145	7.695	101.3	.9764	1489.6	17.116	1.46	41.2
539*	541	7.340	34.717	3.01			023	27.169	7.285	99.6	1.0321	1488.8	20.039	1.99	30.2
588	591	6.805	34.682	2.89			024	27.216	6.748	95.3	1.0802	1487.5	22.822	1.33	43.1
637*	640	6.350	34.622	2.98			026	27.230	6.290	94.1	1.1269	1486.4	25.764	1.45	41.3
686	689	6.160	34.620	2.98			027	27.253	6.096	92.2	1.1730	1486.5	28.891	1.88	31.9
735*	739	5.760	34.609	3.01			029	27.295	5.694	88.3	1.2176	1485.7	32.148	1.32	43.4
784	788	5.675	34.620	3.04			030	27.315	5.604	87.0	1.2609	1485.2	35.530	2.09	28.9
883*	888	5.495	34.745	3.31			029	27.436	5.415	76.6	1.3426	1487.2	42.508	1.91	31.5
981	987	5.305	34.839	3.66			027	27.533	5.218	68.3	1.4143	1486.2	49.362	1.73	38.8
1179*	1187	4.960	34.982	4.71			021	27.687	4.856	55.5	1.5381	1490.3	62.995	1.31	45.5
1476	1488	4.195	34.999	5.77			015	27.786	4.071	47.0	1.6921	1492.1	83.864	.96	62.5
1774*	1789	3.800	34.985	6.00			016	27.816	3.652	45.4	1.8316	1495.5	107.190	.00	.0

SHIP AN CRUISE 056 STATION 1643 DATE 25- II -70 GMT 14.7 LATITUDE 15 2.0 N LONGITUDE 60 37.0 W DEPTH 1445

DEPTH	PRESS	TEMP	SAL	OX	P84	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.52	35.767	4.56			002	23.469	26.520	442.6	.00003	1539.2	.000	3.52	17.1
29	29	26.56	35.903	4.623			002	23.559	26.553	435.2	.1231	1539.9	.188	6.94	8.6
68	68	25.84	36.360	4.37			002	24.130	25.824	382.4	.28283	1539.4	.960	12.32	4.9
77	77	24.84	36.520	4.11			002	24.559	24.822	341.9	.31553	1537.4	1.202	10.82	5.5
87	87	24.17	36.737	3.94			002	24.925	24.150	307.4	.34813	1536.2	1.474	9.31	6.4
96*	96	23.73	36.885	3.94			002	25.168	23.709	284.6	.37483	1535.5	1.724	5.07	11.8
106	106	23.70	36.973	3.98			001	25.243	23.677	277.8	.4030	1535.7	2.016	6.10	9.8
116	116	23.45	37.024	3.92			001	25.356	23.423	267.5	.4304	1535.3	2.327	9.68	6.2
125	125	22.17	36.882	3.66			002	25.618	22.144	242.8	.4534	1532.1	2.611	3.21	9.7
135*	135	21.64	36.839	3.55			002	25.734	21.612	232.1	.4773	1530.8	2.929	7.493	8.0
164	164	18.76	36.484	3.25			004	26.234	18.730	185.2	.5380	1523.1	3.850	5.423	11.1
193*	193	16.50	36.092	3.10			006	26.428	16.468	161.6	.5886	1516.5	4.769	3.71	16.2
241	241	14.23	35.670	3.11			008	26.673	14.194	144.7	.6625	1509.7	6.404	3.303	18.2
290*	291	11.90	35.247	3.02			011	26.818	11.861	131.3	.7305	1502.2	8.248	2.593	23.1
338	339	10.33	35.100	2.99			013	26.903	10.787	123.8	.7921	1499.0	10.228	2.773	21.7
386*	387	9.570	34.944	2.99			016	27.000	9.525	114.8	.8497	1495.1	12.364	2.513	23.9
434	436	8.700	34.865	2.77			019	27.030	8.652	107.5	.9034	1492.5	14.621	2.063	29.1
482*	484	7.875	34.765	2.84			021	27.128	7.824	103.0	.9543	1490.0	17.012	1.78	33.6
522*	524	7.405	34.714	2.84			022	27.157	7.352	100.5	.9953	1488.8	19.125	2.00	30.0
569	572	6.785	34.661	2.89			024	27.202	6.730	96.2	1.0419	1487.1	21.733	1.59	37.6
617* ₃	620	6.640	34.674	2.95			025	27.232	6.581	94.0	1.0879	1487.3	24.535	1.74	34.5
665	668	6.315	34.663	2.99			027	27.267	6.252	90.9	1.1326	1486.8	27.480	1.58	38.0
713*	717	6.045	34.653	2.99			028	27.294	5.979	88.6	1.1760	1486.5	30.556	1.50	40.0
810	815	5.620	34.647	3.10			029	27.343	5.547	84.6	1.2608	1486.4	37.182	1.96	30.5
907*	912	5.515	34.764	3.43			028	27.448	5.434	75.8	1.3393	1487.7	44.091	1.94	30.9
1005	1011	5.290	34.857	3.79			026	27.549	5.201	67.1	1.4099	1488.6	51.021	1.54	38.9
1103*	1110	5.225	34.923	4.11			024	27.609	5.127	62.5	1.4741	1490.0	57.969	1.76	34.2
1202	1210	5.020	34.992	4.79			020	27.688	4.914	55.8	1.5333	1490.9	64.977	1.39	43.2
1403*	1414	4.445	35.008	5.58			016	27.766	4.325	49.0	1.6399	1492.0	79.200	.00	.0

SHIP AN CRUISE C56 STATION 1642 DATE 25- II -70 GMT 12.1 LATITUDE 14 51.0 N LONGITUDE 60 36.0 W DEPTH 1426

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.55	36.026	4.59			003	23.655	26.550	424.9	.0000	1539.5	.000	2.49	24.1
28	28	26.55	36.070	4.62			002	23.688	26.543	422.9	.01146	1540.0	.01703	4.63	19.0
65	65	26.20	36.222	4.42			002	23.913	26.184	403.0	.02677	1540.03	.08923	4.18	14.3
74	74	26.15	36.259	4.40			002	23.957	26.132	399.2	.03039	1540.1	1.149	8.64	6.9
84	84	25.74	36.395	4.32			002	24.187	25.720	377.6	.03428	1539.5	1.463	8.33	7.2
93*	93	25.20	36.429	4.22			002	24.380	25.178	359.6	.03761	1538.4	1.764	12.59	4.3
103	103	23.73	36.502	3.97			002	24.878	23.707	312.4	.04098	1535.2	2.101	5.17	11.6
112*	112	23.49	36.502	3.97			002	24.949	23.465	306.0	.04377	1534.7	2.409	9.20	6.5
121	121	23.66	36.882	3.92			002	25.186	23.633	283.9	.04643	1535.7	2.726	9.62	6.2
131	131	22.73	36.904	3.72			002	25.474	22.702	256.8	.04914	1533.6	3.075	6.82	8.8
159	159	20.83	36.725	3.46			003	25.871	20.798	219.9	.05584	1529.0	4.064	7.67	7.8
188*	188	17.39	36.247	3.21			005	26.394	17.357	170.6	.06153	1519.3	5.064	4.67	12.8
236	236	14.20	35.696	3.05			008	26.700	14.164	142.1	.06908	1509.5	6.687	3.23	18.6
284*	285	11.70	35.218	3.01			012	26.834	11.662	129.5	.07563	1501.3	8.428	2.34	25.6
333	334	10.30	35.116	2.99			013	26.903	10.858	123.7	.08187	1499.2	10.401	3.11	19.3
382*	383	9.455	34.961	2.84			016	27.033	9.411	111.5	.08767	1494.6	12.522	2.12	28.3
433	435	8.705	34.878	2.80			018	27.089	8.657	106.6	.09327	1492.5	14.862	1.73	34.7
483*	485	7.870	34.753	2.83			021	27.120	7.819	103.9	.09857	1490.0	17.352	1.64	36.7
543*	545	7.420	34.727	2.81			022	27.156	7.424	101.0	1.0476	1489.5	20.611	2.17	27.5
590	593	6.905	34.695	2.91			024	27.213	6.847	95.8	1.0942	1488.0	23.320	1.59	37.8
638*	641	6.345	34.629	2.99			026	27.236	6.285	93.5	1.1400	1486.4	26.206	1.59	37.6
686	689	6.080	34.621	2.99			027	27.264	6.017	91.1	1.1843	1486.2	29.244	1.58	38.0
734*	7383	5.765	34.604	3.14			029	27.291	5.699	88.7	1.2282	1485.7	32.419	1.53	39.2
783	787	5.785	34.646	3.17			029	27.321	5.714	86.5	1.2715	1486.6	35.796	1.57	38.1
879*	884	5.335	34.645	3.21			030	27.376	5.258	81.8	1.3530	1486.4	42.752	2.13	28.1
976	982	5.445	34.829	3.65			027	27.508	5.357	70.9	1.4277	1488.7	49.858	1.79	33.5
1073*	1080	5.185	34.891	3.89			025	27.588	5.090	64.0	1.4938	1489.3	56.806	1.94	30.9
1170	1178	4.990	34.988	4.85			019	27.688	4.887	55.3	1.5523	1490.3	63.535	1.403	42.8
1366*	1376	4.420	35.006	5.57			016	27.767	4.304	48.4	1.6551	1491.2	76.897	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1641 25- II -70 9.4 14 42.0 N 60 36.0 W 1650

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.60	35.862	4.86			002	23.515	26.600	438.2	.0000	1539.5	.0003	2.69	22.3
28	28	26.60	35.918	4.69			002	23.557	26.593	435.3	.1181	1540.0	.175	3.59	16.7
67	67	26.58	36.084	4.61			002	23.689	26.564	424.4	.2860	1540.8	.9873	3.69	16.2
76	76	26.53	36.106	4.61			002	23.721	26.512	421.7	.3242	1540.8	1.266	4.79	12.5
86	86	26.43	36.151	4.53			002	23.787	26.409	415.9	.3661	1540.8	1.614	8.03	7.5
95	95	26.23	36.312	4.43			002	23.965	26.227	399.2	.4029	1540.7	1.954	15.42	3.9
105	105	25.13	36.845	4.24			002	24.716	25.106	328.1	.4394	1538.9	2.326	4.59	13.1
115*	115	25.00	36.872	4.24			002	24.776	24.973	322.8	.4720	1538.8	2.694	8.25	7.3
124	124	24.48	36.913	4.08			002	24.965	24.452	305.1	.5004	1537.8	3.040	8.22	7.3
134	134	23.89	36.955	4.00			002	25.173	23.860	285.6	.5300	1536.6	3.431	9.27	6.5
163	163	20.29	36.632	3.46			004	25.946	20.258	212.8	.6026	1527.5	4.519	5.90	10.2
192*	192	18.47	36.410	3.22			005	26.251	18.435	184.5	.6604	1522.7	5.566	4.79	12.5
241	241	15.73	35.9813	3.09			008	26.581	15.691	154.0	.7438	1514.8	7.398	3.47	17.3
290*	291	13.59	35.5863	3.02			010	26.743	13.547	139.2	.8161	1508.3	9.356	3.08	19.5
340	341	11.90	35.314	3.01			012	26.870	11.854	127.6	.8832	1503.1	11.517	3.36	17.8
389*	390	10.03	35.0723	2.81			015	27.022	9.983	113.1	.9425	1496.9	13.729	2.00	30.1
439	441	9.23	34.9593	2.81			018	27.068	9.179	109.2	.9985	1494.7	16.104	2.26	26.5
483*	490	8.03	34.7933	2.85			020	27.127	7.9783	103.4	1.0509	1490.8	18.597	1.93	31.1
582*	585	6.80	34.672	2.91			024	27.209	6.743	95.8	1.1453	1487.4	23.764	1.51	39.8
679	682	6.12	34.6153	3.013			027	27.255	6.057	91.9	1.2370	1486.2	29.702	1.55	38.7
776*	780	5.62	34.6033	3.113			030	27.308	5.551	87.4	1.3247	1485.8	36.251	1.41	42.6
873	878	5.320	34.6113	3.22			030	27.351	5.243	84.0	1.4086	1486.2	43.355	2.20	27.3
970*	976	5.610	34.8393	3.63			027	27.496	5.322	72.3	1.4852	1489.3	50.583	1.86	32.3
1067	1074	5.230	34.888	3.903			025	27.581	5.135	64.7	1.5523	1489.4	57.601	1.79	33.5
1164	1172	5.155	34.984	4.713			020	27.666	5.051	57.8	1.6124	1490.8	64.479	1.82	33.0
1261	1270	4.635	35.0113	5.43			017	27.741	4.576	50.5	1.6655	1490.6	71.094	1.20	50.2
1353*	1368	4.430	35.0043	5.603			016	27.764	4.314	48.6	1.7142	1491.1	77.651	.96	62.2
1455	1466	4.300	35.0003	5.71			016	27.776	4.177	48.2	1.7617	1492.2	84.534	1.03	58.5
1552*	1564	4.145	34.9963	5.843			015	27.789	4.014	47.3	1.8085	1493.2	91.793	.00	.0

SHIP AN CRUISE 056 STATION 1640 DATE 25-11-700 GMT 6.8 LATITUDE 14 32.0 NO LONGITUDE 60 38.0 W DEPTH 1383

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.54	36.086	4.58			002	23.703	26.540	420.3	.0000	1539.6	.000	1.14	52.7
30	30	26.57	36.086	4.58			002	23.694	26.563	422.4	.1224	1540.10	.195	1.81	33.1
59	59	26.54	36.085	4.58			002	23.702	26.526	422.8	.2452	1540.5	.754	3.41	17.6
89	89	26.39	36.140	4.51			002	23.791	26.368	415.6	.3712	1540.8	1.707	1.44	41.6
99	99	26.39	36.139	4.56			002	23.790	26.366	416.0	.4128	1540.9	2.108	4.62	13.0
108*	103	26.31	36.178	4.47			001	23.845	26.284	411.2	.4501	1540.9	2.504	9.85	6.1
118	118	26.03	36.462	4.39			002	24.147	26.002	382.8	.4899	1540.8	2.963	13.33	4.5
128*	128	25.08	36.812	4.24			002	24.706	25.050	330.0	.5257	1539.2	3.412	14.12	4.3
138	138	23.25	36.917	3.84			002	25.333	23.220	270.5	.5558	1535.0	3.821	7.51	8.0
148*	148	22.63	36.903	3.81			002	25.506	22.598	254.4	.5821	1533.7	4.206	9.33	6.4
172	172	19.25	36.545	3.35			004	26.154	19.218	193.2	.6361	1524.7	5.082	6.68	9.0
197*	197	16.58	36.123	3.17			006	26.493	16.547	161.3	.6806	1516.9	5.918	3.50	17.2
246	246	14.59	35.752	3.07			008	26.659	14.552	146.4	.7564	1511.0	7.630	3.20	18.8
296*	297	12.66	35.411	3.28			011	26.797	12.619	133.8	.8268	1505.1	9.580	3.32	18.1
345	346	11.10	35.220	2.88			013	26.947	11.056	120.0	.8894	1500.2	11.628	2.51	23.9
394*	395	9.735	35.010	2.78			016	27.024	9.688	112.8	.9468	1495.9	13.801	2.19	27.4
444	446	8.740	34.875	2.77			019	27.082	8.691	107.6	1.0022	1492.8	16.184	1.83	32.9
493*	495	8.220	34.820	2.78			020	27.119	8.167	104.4	1.0546	1491.6	18.698	2.12	28.2
522*	524	7.630	34.746	2.89			022	27.150	7.576	101.5	1.0846	1489.7	20.265	1.83	32.8
570			34.707	2.86			023								
618*	621	6.615	34.659	2.89			025	27.224	6.556	94.70	1.1795	1487.2	25.805	1.63	36.7
667	670	6.165	34.619	3.02			027	27.252	6.103	92.2	1.2256	1486.2	28.851	1.90	31.6
715*	719	5.865	34.626	3.01			028	27.296	5.800	88.2	1.2693	1485.80	31.948	1.67	35.8
763	767	5.545	34.615	3.06			030	27.327	5.477	85.4	1.3113	1485.3	35.138	1.56	38.5
859*	864	5.480	34.682	3.22			030	27.388	5.404	80.8	1.3918	1486.7	41.836	1.92	31.2
956	962	5.625	34.838	3.61			027	27.493	5.538	72.4	1.4667	1489.1	48.816	2.03	29.6
1054*	1061	5.190	34.905	3.97			025	27.599	5.097	62.8	1.5337	1489.0	55.712	1.67	36.0
1152	1160	5.065	34.976	4.62			021	27.670	4.963	57.0	1.5930	1490.3	62.432	1.36	44.3
1350*	1360	4.625	35.008	5.43			016	27.746	4.508	50.9	1.7010	1491.8	76.287	.00	.0

SHIP AN. CRUISE 056 STATION 1639 DATE 25-11-70 GMT 4.0 LATITUDE 14 22.0 N LONGITUDE 60 36.0 W DEPTH 1825

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.58	36.095	4.65			002	23.697	26.580	420.9	.00002	1539.7	.000	1.11	54.0
30	30	26.60	36.090	4.69			002	23.687	26.593	423.0	.12262	1540.2	.1952	1.44	41.7
59	59	26.61	36.091	4.70			002	23.685	26.596	424.5	.2457	1540.7	.7562	1.95	30.8
89	89	26.59	36.101	4.66			002	23.699	26.568	424.4	.37322	1541.2	1.723	10.03	6.0
99	99	25.98	36.261	4.43			002	24.011	25.956	395.0	.41432	1540.1	2.117	14.11	4.3
109*	109	24.07	36.318	3.96			003	24.638	24.046	335.5	.45092	1535.9	2.506	6.51	9.2
119	119	23.76	36.366	3.97			003	24.766	23.734	323.7	.48402	1535.4	2.891	7.06	8.5
129*	129	23.43	36.439	3.95			002	24.918	23.402	309.6	.51572	1534.8	3.294	10.16	5.9
139	139	23.04	36.715	3.96			002	25.241	23.010	279.2	.54532	1534.3	3.699	4.99	12.0
148*	148	23.13	36.837	3.84			002	25.308	23.098	273.3	.57022	1534.8	4.066	10.61	5.7
173	173	18.95	36.483	3.39			004	26.184	18.913	190.3	.62842	1523.8	5.010	5.82	10.3
198*	198	17.05	36.198	3.44			006	26.439	17.016	166.6	.67332	1518.4	5.858	3.33	18.0
247	247	15.70	35.981	3.21			008	26.588	15.660	153.6	.75212	1514.8	7.649	4.20	14.3
297*	298	12.22	35.351	3.33			011	26.837	12.179	129.8	.82342	1503.5	9.621	3.11	19.3
346	347	11.26	35.287	3.14			013	26.970	11.215	118.0	.88442	1500.9	11.629	2.09	28.7
396*	397	10.305	35.131	2.86			015	27.020	10.256	113.7	.9427	1498.1	13.845	2.52	23.8
445	447	8.845	34.916	2.98			019	27.097	8.795	106.2	.99702	1493.3	16.182	1.77	33.92
495*	497	8.435	34.880	2.81			019	27.133	8.381	103.4	1.0497	1492.5	18.728	1.65	36.4
538*	540	7.910	34.808	2.84			021	27.157	7.8532	101.4	1.0941	1491.1	21.079	1.50	40.1
586	589	7.355	34.729	2.87			022	27.176	7.295	99.7	1.1427	1489.7	23.885	2.07	28.9
633	636	6.610	34.657	3.10			025	27.223	6.549	95.0	1.1888	1487.4	26.771	1.82	32.9
681	684	6.155	34.6282	3.44			027	27.260	6.092	91.5	1.2339	1486.4	29.816	1.32	45.4
729*	733	5.835	34.5952	3.182				27.275	5.769	90.3	1.2779	1485.9	33.004	1.88	31.9
776	780	5.710	34.6322	3.032			029	27.320	5.640	86.5	1.3198	1486.2	36.243	1.75	34.3
870*	875	5.565	34.707	3.672			029	27.397	5.487	80.2	1.3989	1487.3	42.917	2.28	226.32
964	970	5.590	34.895	3.852			025	27.542	5.502	67.9	1.4691	1489.2	49.514	1.65	36.4
1151*	1159	5.135	34.984	4.792			021	27.668	5.033	57.4	1.5874	1490.5	62.294	1.40	42.8
1434	1445	4.305	35.008	5.722			015	27.781	4.183	47.4	1.7374	1491.9	82.053	.94	63.7
1718*	1733	3.915	34.988	5.88			015	27.807	3.771	46.3	1.8722	1495.0	103.918	.00	.0

SHIP AN CRUISE 056 STATION 1638 DATE 25- 11 -70 GMT 2.1 LATITUDE 14 18.0 N LONGITUDE 60 38.0 W DEPTH 1697

DEPTH	PRESS	TEMP	SAL	ØX	PØ4	PHØS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PØT EN	V FREQ	PERIOD
1		26.58		4.75											
29	29	26.61	36.093	4.69			002	23.686	26.603	423.1	.0000	1540.2	.000	1.45	41.4
59	59	26.61	36.090	4.62			002	23.684	26.596	424.6	.1274	1540.7	.575	1.66	36.1
88	88	26.60	36.091	4.65			002	23.688	26.579	425.4	.2508	1541.2	1.506	1.89	31.7
98	98	26.59	36.092	4.58			002	23.692	26.566	425.4	.2935	1541.3	1.9121	5.99	10.0
108*	103	26.39	36.150	4.52			002	23.799	26.364	415.6	.3356	1541.1	2.357	16.48	3.5
118	118	24.20	36.393	4.44			002	24.656	24.173	334.2	.3732	1536.4	2.790	12.00	5.0
127*	127	22.96	36.448	4.17			003	25.062	22.933	295.8	.4016	1533.6	3.147	3.31	18.1
137	137	22.91	36.467	4.00			003	25.091	22.881	293.4	.4312	1533.7	3.546	10.84	5.5
147	147	22.79	36.908	3.91			002	25.460	22.758	258.8	.4589	1534.0	3.949	8.72	6.9
171	171	20.19	36.700	3.35			003	26.025	20.157	205.6	.5149	1527.4	4.853	6.46	9.3
196*	196	17.96	36.360	3.17			005	26.340	17.925	176.1	.5628	1521.2	5.750	4.131	14.5
245	245	15.76	35.988	3.01			008	26.580	15.720	154.3	.6442	1515.0	7.577	4.41	13.5
294*	295	12.10	35.339	3.02			011	26.851	12.060	128.4	.7138	1503.0	9.487	3.01	19.9
343	344	11.06	35.246	2.83			013	26.975	11.016	117.3	.7744	1500.1	11.460	2.30	26.1
392*	393	10.030	35.093	2.85			015	27.039	9.983	111.7	.8308	1497.0	13.586	1.98	30.2
441	443	9.045	34.937	2.98			018	27.081	8.995	107.8	.8850	1494.0	15.899	1.89	31.7
490*	492	8.485	34.876	2.94			019	27.122	8.431	104.4	.9373	1492.6	18.400	1.92	31.2
536*	538	7.745	34.781	2.85			022	27.160	7.689	100.8	.9843	1490.4	20.903	1.76	34.0
584	587	7.130	34.709	2.84			023	27.192	7.072	97.9	1.0329	1488.8	23.666	1.69	35.5
631	634	6.620	34.656	3.03			025	27.221	6.559	95.2	1.0786	1487.5	26.519	1.81	33.1
679	682	6.045	34.604	3.02			027	27.255	5.983	91.8	1.1239	1485.9	29.563	1.62	37.1
774*	778	5.610	34.610	3.50			030	27.315	5.541	86.7	1.2094	1485.7	35.939	1.60	37.4
868	873	5.400	34.655	3.39			030	27.376	5.323	81.8	1.2893	1486.5	42.675	.38	159.1
962*	968	5.620	34.684	3.84			025	27.372	5.532	83.8	1.3673	1489.0	50.072	2.85	21.0
1057	1064	5.255	34.916	4.17			024	27.600	5.161	62.9	1.4382	1489.4	57.331	1.59	37.8
1250*	1259	4.840	35.0041	5.12			018	27.718	4.731	53.0	1.5512	1491.0	70.662	1.30	46.1
1445	1456	4.295	35.004	5.64			016	27.779	4.173	47.7	1.6506	1492.0	84.399	.99	60.5
1641*	1655	3.980	34.990	5.94			015	27.802	3.843	46.3	1.7439	1494.0	99.223	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1637 25- II -70 .3 14 13.0 N 60 39.0 W 1595

DEPTH	PRESS	TEMP	SAL	OX	PH4	PH6S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.59	36.093	4.68			002	23.692	26.590	421.3	.0000	1539.7	.000	1.06	56.9
29	29	26.61	36.087	4.80			002	23.682	26.603	423.5	.11852	1540.2	.182	1.68	35.7
59	59	26.60	36.089	4.93			002	23.686	26.586	424.3	.24592	1540.7	.7572	2.10	28.6
88	88	26.54	36.089	4.75			002	23.705	26.519	423.7	.3691	1541.0	1.684	2.02	29.7
98	98	26.52	36.088	4.87			002	23.711	26.496	423.6	.41152	1541.1	2.088	8.17	7.3
108*	108	26.14	36.201	4.43			002	23.916	26.114	404.4	.45302	1540.6	2.525	16.29	3.7
118	118	23.77	36.353	4.31			002	24.753	23.744	324.9	.48962	1535.3	2.946	11.12	5.4
128*	128	22.75	36.475	3.99			003	25.140	22.733	288.4	.52032	1533.2	3.332	3.35	17.9
137	137	22.89	36.560	4.04			003	25.167	22.861	286.2	.54632	1533.7	3.684	9.17	6.3
147*	147	22.74	36.849	3.84			002	25.430	22.709	261.6	.57382	1533.9	4.084	8.37	7.0
172	172	20.37	36.727	3.44			003	25.997	20.336	208.3	.6327	1528.0	5.039	4.85	12.4
196*	196	19.27	36.563	3.39			004	26.163	19.233	193.2	.68122	1525.2	5.950	5.49	10.9
245	245	15.91	36.063	3.11			008	26.603	15.870	152.2	.76622	1515.5	7.847	3.82	15.7
294	295	12.75	35.438	3.10			010	26.800	12.709	133.5	.8366	1505.4	9.781	3.43	17.5
343	344	10.84	35.175	3.07			014	26.959	10.797	118.6	.89872	1499.2	11.803	2.34	25.6
392*	393	10.070	35.089	2.83				27.028	10.022	112.6	.9558	1497.2	13.949	1.99	30.2
441	443	9.310	34.982	2.87			017	27.073	9.259	108.8	1.0104	1495.0	16.283	2.17	27.6
490*	492	8.500	34.288	2.85			019	27.129	8.446	103.7	1.0628	1492.7	18.786	1.64	36.5
530*	532	8.025	34.823	3.00			021	27.151	7.969	101.9	1.10422	1491.5	20.954	1.50	40.1
578	580	7.490	34.747	2.96			022	27.171	7.431	100.2	1.15312	1490.1	23.734	1.46	41.22
626*	629	7.095	34.700	2.982			024	27.190	7.032	98.7	1.20122	1489.3	26.709	1.82	33.0
675	678	6.545	34.650	3.10			025	27.226	6.480	95.2	1.2491	1487.9	29.908	1.94	30.92
771*	775	5.535	34.594	3.202			031	27.311	5.467	86.9	1.3372	1485.3	36.440	1.67	35.92
868	873	5.345	34.654	3.41			031	27.382	5.269	81.1	1.41942	1486.3	43.354	2.28	26.32
965*	971	5.590	34.888	3.972			025	27.537	5.502	63.4	1.49272	1489.2	50.224	1.80	33.42
1062	1069	5.175	34.322	4.092			024	27.614	5.081	61.4	1.55622	1489.1	56.839	1.66	36.1
1160*	1168	5.075	34.997	4.992			019	27.685	4.972	55.7	1.61422	1490.5	63.457	1.36	44.02
1355	1365	4.520	35.008	5.702			017	27.758	4.404	49.5	1.71802	1491.5	76.831	1.08	55.42
1553*	1565	4.1302	34.996	5.832			015	27.791	3.999	47.1	1.81482	1493.1	91.312	.00	.0

SHIP AN CRUISE 056 STATION 1636 DATE 24-11-70 GMT 22.5 LATITUDE 14 8.0 N LONGITUDE 60 36.0 W DEPTH 1390

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.57	36.092	4.63			002	23.698	26.570	420.8	.00003	1539.7	.0003	.56	107.7
28	28	26.62	36.090	4.89			002	23.681	26.613	423.6	.11423	1540.2	.170	1.97	30.5
57	57	26.58	36.092	4.87			002	23.695	26.566	423.4	.23723	1540.6	.7053	3.30	18.2
85	85	26.38	36.109	4.75			002	23.771	26.359	417.3	.3551	1540.6	1.561	2.98	20.1
95	95	26.34	36.120	5.090			002	23.792	26.317	415.7	.39693	1540.7	1.946	10.49	5.7
104*	104	25.52	36.190	4.49			002	24.101	25.496	386.6	.4330	1539.1	2.314	9.46	6.3
114	114	24.80	36.266	4.43			002	24.379	24.774	360.5	.4705	1537.7	2.731	7.64	7.9
124*	124	24.28	36.295	4.42			002	24.558	24.252	343.8	.5058	1536.6	3.161	8.42	7.1
133	133	23.78	36.359	4.21			002	24.755	23.751	325.3	.5360	1535.6	3.558	6.76	8.9
143*	143	23.46	36.418	4.50			002	24.894	23.429	312.5	.5680	1535.1	4.010	9.61	6.2
167	167	22.53	36.976	3.95			002	25.586	22.494	247.5	.6354	1533.8	5.072	9.63	6.2
192*	192	18.29	36.421	3.49			004	26.305	18.255	179.4	.6891	1522.2	6.047	5.10	11.8
241	241	14.42	35.731	3.35			009	26.679	14.383	144.2	.7687	1510.4	7.794	3.41	17.6
290*	291	12.51	35.425	3.44			011	26.838	12.470	129.7	.8363	1504.5	9.623	2.84	21.1
340	341	11.18	35.237	3.24			013	26.946	11.136	120.0	.8991	1500.5	11.647	2.22	27.0
390*	391	10.31	35.3143	3.11			016	27.006	10.262	114.9	.9582	1498.0	13.857	2.72	22.0
440	441	9.18	34.995	3.18			018	27.105	9.129	105.7	1.0137	1494.6	16.217	1.40	42.8
490*	492	8.57	34.890	3.41				27.120	8.516	104.7	1.0667	1493.0	18.745	1.54	39.0
536*	538	8.17	34.839	3.41			020	27.142	8.112	103.0	1.1148	1492.1	21.279	1.60	37.4
585	588	7.61	34.764	3.35			022	27.167	7.549	100.9	1.1651	1490.7	24.176	1.75	34.3
634*	637	7.040	34.701	3.21			024	27.198	6.977	97.9	1.2142	1489.2	27.249	1.62	37.1
683	686	6.540	34.647	3.39			026	27.224	6.474	95.5	1.2620	1488.0	30.480	1.74	34.4
731*	785	5.715	34.597	3.52			029	27.291	5.645	89.2	1.3532	1486.2	37.332	1.90	31.6
879	884	5.335	34.656	3.64			031	27.385	5.258	81.0	1.4373	1486.4	44.491	2.27	26.4
977*	983	5.595	34.894	4.26			025	27.541	5.506	68.2	1.5111	1489.4	51.502	1.87	32.1
1075	1082	5.155	34.935	4.70			024	27.627	5.060	60.4	1.5747	1489.3	58.1983	1.58	38.0
1174*	1182	5.035	34.996	5.32			019	27.689	4.931	55.4	1.6326	1490.5	64.888	1.45	41.3
1274	1283	4.730	35.008	5.60			017	27.734	4.619	51.5	1.6867	1491.0	71.689	1.22	49.3
1373*	1383	4.500	35.008	5.58			016	27.760	4.382	49.4	1.7372	1491.7	78.573	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1635 24- 11 -70 20.2 13 58.0 N 60 35.0 W 1324

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.65	36.080	4.60			002	23.664	26.650	424.1	.00003	1539.8	.0003	1.75	34.4
29	29	26.63	36.080	4.63			002	23.670	26.623	424.6	.11903	1540.2	.183	2.13	28.2
59	59	26.59	36.091	4.59			002	23.691	26.576	423.9	.2465	1540.7	.757	2.10	28.5
88	88	26.56	36.104	4.54			002	23.710	26.539	423.2	.3696	1541.1	1.683	10.06	6.0
98	98	25.74	36.180	4.26			002	24.025	25.717	393.6	.4105	1539.5	2.072	7.41	8.1
1083	1083	25.30	36.222	4.10			002	24.193	25.275	378.0	.4492	1538.7	2.479	5.94	10.1
118	118	25.02	36.248	4.07			002	24.298	24.993	368.3	.4866	1538.2	2.912	6.96	8.6
125*	128	24.66	36.298	4.04			002	24.445	24.631	354.7	.5228	1537.6	3.368	4.57	13.1
138	138	24.40	36.273	3.98			002	24.505	24.369	349.4	.5581	1537.1	3.849	5.51	10.9
147*	147	24.17	36.289	3.96			002	24.586	24.137	342.0	.5893	1536.7	4.304	10.03	6.0
172	172	22.55	36.700	3.62			002	25.371	22.513	268.1	.6659	1533.6	5.543	10.15	5.9
196*	196	19.44	36.592	3.27			003	26.141	19.403	195.4	.7217	1525.7	6.585	5.48	10.9
246	246	15.29	35.858	3.35			008	26.586	15.251	153.6	.8094	1513.4	8.544	4.03	14.9
295*	296	12.70	35.440	3.01			010	26.812	12.659	132.4	.8799	1505.2	10.486	3.53	16.7
344	345	10.27	35.078	2.88			015	26.985	10.228	115.8	.94103	1497.1	12.481	3.11	19.3
393*	394	9.41	35.063	2.80			017	27.120	9.364	103.5	.99513	1494.7	14.519	2.63	95.9
442	443	8.69	34.885	2.79			020	27.097	8.641	106.0	1.0468	1492.6	16.735	1.62	37.1
491*	493	8.17	34.816	2.79			020	27.124	8.117	103.9	1.0986	1491.4	19.215	1.81	33.2
540*	542	7.68	34.770	2.80			022	27.161	7.624	100.7	1.1491	1490.2	21.887	1.77	33.8
589	592	7.12	34.711	2.883			023	27.195	7.061	97.6	1.1981	1488.8	24.724	1.77	33.93
633*	641	6.485	34.642	2.953			026	27.228	6.424	94.5	1.2455	1487.0	27.712	1.60	37.53
687	690	6.130	34.618	3.173			027	27.255	6.066	92.0	1.2916	1486.4	30.846	1.11	54.2
736*	740	5.920	34.595	3.093			028	27.264	5.853	91.5	1.3369	1486.3	34.162	1.91	31.5
785		5.675													
883*	888	5.500	34.711	3.293			029	27.408	5.421	79.2	1.4635	1487.2	44.627	1.96	30.7
981	987	5.505	34.848	3.72			026	27.516	5.416	70.4	1.5374	1489.0	51.697	1.88	31.9
1123*	1135	5.145	34.968	4.523			021	27.654	5.045	58.4	1.6330	1490.2	62.006	1.53	39.2
1275	1284	4.740	35.003	5.263			017	27.733	4.629	51.7	1.7148	1491.0	72.085	1.57	38.2
1324*	1334	4.430	35.003					27.757	4.377	49.2	1.7398	1490.8	75.426	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1634³ 24-11-70 17.9 14 4.0 N 60 36.0 W 1357

DEPTH	PRESS	TEMP	SAL	OX	PB4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.67	36.105	4.57			002	23.676	26.670	422.9	.0000	1539.9	.000	2.04	29.4
29	29	26.60	36.097	4.59			002	23.692	26.593	422.5	.11853	1540.2	.1823	1.83	32.7
59	59	26.55	36.089	4.57			002	23.702	26.536	422.8	.2456	1540.6	.754	2.23	26.9
88	88	26.48	36.092	4.52			002	23.727	26.459	421.7	.36823	1540.9	1.6773	6.35	9.4
98	98	26.18	36.127	4.44			002	23.848	26.156	410.5	.4099	1540.4	2.0743	5.35	11.2
108*	108	25.98	36.155	4.45			002	23.931	25.954	403.0	.45073	1540.2	2.504	11.56	5.2
118	118	24.92	36.276	4.01			002	24.350	24.893	363.4	.48913	1538.0	2.947	6.06	9.9
128*	128	24.55	36.273	4.08			003	24.460	24.521	353.3	.52503	1537.3	3.4003	5.52	10.9
137	137	24.28	36.273	3.98			002	24.541	24.249	345.9	.55663	1536.8	3.828	6.61	9.1
147*	147	23.94	36.314	3.96			002	24.673	23.907	333.7	.5907	1536.2	4.3233	9.87	6.1
172	172	22.51	36.767	3.57			002	25.434	22.473	262.2	.66543	1533.6	5.5333	9.43	6.4
196*	196	19.69	36.619	3.46			003	26.096	19.652	199.7	.72113	1526.4	6.5733	6.10	9.8
245	245	15.19	35.902	3.05			008	26.642	15.151	148.2	.80683	1513.1	8.4773	3.95	15.2
294*	295	12.23	35.378	2.95			011	26.856	12.190	128.0	.8748	1503.5	10.345	3.23	18.6
344	345	10.32	35.107	2.83			015	26.999	10.278	114.5	.93583	1497.3	12.332	2.28	26.3
393*	394	9.540	35.019	2.77			016	27.064	9.494	108.9	.99093	1495.2	14.412	1.92	31.2
442*	443	8.535	34.874	2.78			020	27.104	8.546	105.3	1.0437	1492.3	16.675	1.89	31.7
491*	493	8.055	34.8213	2.78			021	27.145	8.003	101.8	1.0948	1490.9	19.120	1.65	36.4
530*	532	7.633	34.769	2.83			022	27.1683	7.575	99.9	1.1344	1489.9	21.196	1.55	38.8
579	5813	7.165	34.7143	2.83			023	27.191	7.107	97.9	1.1832	1488.8	23.976	1.38	43.5
628	631	6.805	34.6723	2.87			025	27.208	6.744	96.6	1.2313	1488.2	26.953	1.87	32.1
676	679	6.260	34.6283	2.97			027	27.246	6.197	92.9	1.2771	1486.7	30.023	1.37	43.7
725	729	6.035	34.6153	3.00			028	27.265	5.968	91.5	1.3227	1486.6	33.301	1.85	32.4
774			34.614	3.05			030								
871*	876	5.350	34.6703	3.21			031	27.394	5.273	80.1	1.4490	1486.3	43.6013	1.81	33.1
968	974	5.450	34.8023	3.55			028	27.486	5.363	72.8	1.5238	1488.5	50.663	2.06	29.2
1065*	1072	5.345	34.9333	4.17			023	27.602	5.249	63.0	1.5903	1489.9	57.596	1.64	36.7
1162	1170	5.110	34.9783	4.63			021	27.666	5.007	57.6	1.6494	1490.6	64.355	1.48	40.6
1357*	1367	4.510	35.0073					27.758	4.394	49.5	1.7550	1491.4	77.969	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1633 24-011 -70 13.0 13 46.0 NO 60 35.0 W 1315

DEPTH	PRESS	TEMP	SAL	OX	PB4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PST EN	V FREQ	PERIOD
1	1	26.58	36.075	5.02			002	23.682	26.580	422.3	.0000	1539.7	.0000	1.67	35.9
29	29	26.60	36.089	4.63			002	23.686	26.593	423.1	.1185	1540.2	.1820	1.89	31.8
59	59	26.57	36.092	4.56			002	23.698	26.556	423.2	.2457	1540.6	.755	5.33	11.3
88	88	25.96	36.157	4.23			002	23.939	25.939	401.4	.3655	1539.8	1.652	6.35	9.5
98	98	25.68	36.202	3.97			002	24.060	25.657	390.2	.4052	1539.4	2.029	7.10	8.4
103*	108	25.19	36.205	4.42			002	24.214	25.165	376.0	.4436	1538.4	2.434	4.90	12.2
118	118	25.12	36.269	4.24			002	24.233	25.093	369.7	.4810	1538.5	2.867	8.79	6.8
128*	128	24.44	36.312	4.19			002	24.522	24.411	347.3	.5169	1537.1	3.319	6.13	9.8
138	138	24.04	36.303	4.48			002	24.635	24.009	336.9	.5512	1536.3	3.786	4.76	12.6
147*	147	23.89	36.322	4.34			002	24.694	23.857	331.7	.5814	1536.1	4.226	8.70	6.9
172	172	22.62	36.608	4.28			003	25.281	22.583	276.7	.6577	1533.7	5.464	10.75	5.6
197	197	19.22	36.574	3.44			003	26.184	19.183	191.2	.7164	1525.1	6.561	5.45	11.0
246	246	15.62	35.995	3.27			006	26.617	15.580	150.8	.8007	1514.6	8.448	3.91	15.4
295*	296	12.94	35.522	3.09			010	26.827	12.898	131.1	.8701	1506.1	10.363	2.96	20.3
344	345	11.07	35.203	3.06			013	26.939	11.026	120.7	.9322	1500.1	12.390	2.69	22.3
393*	394	9.71	35.014	2.98			016	27.031	9.663	112.1	.9896	1495.8	14.555	1.74	34.5
442	443	9.130	34.932	2.83				27.064	9.079	109.6	1.0442	1494.3	16.897	2.07	28.9
492*	494	8.470	34.865	2.88			019	27.116	8.416	105.0	1.0982	1492.6	19.484	2.18	27.5
555*	557	7.260	34.726	2.89			023	27.187	7.204	98.0	1.1626	1488.8	22.940	1.82	33.0
604	607	6.515	34.639	2.98			025	27.221	6.458	94.6	1.2102	1486.6	25.769	1.75	34.3
653	656	6.180	34.629	3.01			027	27.258	6.119	91.4	1.2561	1486.0	28.734	1.44	41.5
701	704	5.850	34.601	3.09			028	27.278	5.786	89.7	1.3000	1485.5	31.781	1.55	38.8
750*	754	5.710	34.615	3.10			029	27.306	5.643	87.4	1.3437	1485.7	35.042	1.88	31.8
799	803	5.590	34.656	3.32			029	27.354	5.519	83.4	1.3859	1486.1	38.401	1.57	38.3
896	901	5.500	34.720	3.38			029	27.415	5.420	78.7	1.4652	1487.4	45.3010	2.06	29.2
994	1000	5.530	34.878	3.49			025	27.536	5.440	68.7	1.5381	1489.4	52.362	2.11	28.4
1091*	1098	5.100	34.958	4.47			022	27.651	5.004	58.1	1.6002	1489.4	58.999	1.48	40.5
1189	1197	4.970	35.004	5.03			018	27.703	4.865	54.1	1.6558	1490.5	65.510	1.53	39.3
1286*	1295	4.625	35.016	4.93			017	27.752	4.514	49.6	1.7066	1490.7	71.981	.000	.0

SHIP AN CRUISE 056 STATION 1632 DATE 24- II -70 GMT 10.4 LATITUDE 13 38.0 N3 LONGITUDE 60 43.0 W DEPTH 1165

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.57	36.112	5.03			002	23.713	26.570	419.3	.0000	1539.7	.000	.56	106.8
29	29	26.61	36.105	4.74			002	23.695	26.603	422.2	.1180	1540.2	.1823	1.80	33.4
59	59	26.59	36.108	4.84			002	23.704	26.576	422.7	.2450	1540.7	.7543	4.04	14.8
88	88	26.24	36.133	4.62			002	23.833	26.219	411.5	.3661	1540.4	1.663	10.37	5.9
98	98	25.33	36.202	4.21			002	24.168	25.307	379.9	.4058	1538.6	2.040	4.40	13.6
108*	108	25.24	36.238	4.09			002	24.223	25.215	375.1	.4436	1538.6	2.439	6.79	8.8
117	117	24.86	36.251	4.11			002	24.349	24.833	363.4	.4770	1537.8	2.823	7.91	7.6
127*	1273	24.28	36.274	4.09			003	24.542	24.251	345.4	.5125	1536.6	3.267	5.54	10.8
137	137	23.96	36.268	4.10			002	24.633	23.929	337.1	.5467	1536.0	3.729	8.15	7.43
147*	147	23.52	36.367	3.49			002	24.838	23.488	318.0	.5796	1535.2	4.207	11.61	5.2
171	171	21.21	36.838	3.57			002	25.8533	21.175	222.1	.6446	1530.3	5.252	7.54	8.0
196*	196	18.35	36.418				005	26.2873	18.314	181.2	.6953	1522.4	6.198	5.18	11.6
245	245	14.53	35.756	3.32			009	26.6753	14.492	144.8	.7756	1510.8	7.990	3.64	16.5
294*	295	12.97	35.572	2.87			010	26.860	12.928	128.0	.8428	1506.3	9.838	2.87	20.9
342	343	11.21	35.265	2.84			013	26.962	11.166	118.6	.9024	1500.6	11.775	2.17	27.7
391*	392	10.22	35.107	2.83			015	27.017	10.1723	113.9	.9597	1497.7	13.928	2.16	27.8
440	441	9.23	34.962	2.81			017	27.071	9.179	109.0	1.0146	1494.7	16.269	1.87	32.1
489*	491	8.55	34.872	2.86			019	27.109	8.4963	105.7	1.0676	1492.9	18.792	2.14	28.0
540*	542	7.68	34.753	2.91			022	27.165	7.624	100.4	1.1205	1490.2	21.585	2.02	29.7
589	592	6.71	34.6563	3.06			024	27.209	6.653	95.9	1.1689	1487.1	24.391	.80	75.4
638*	641	6.32	34.5863	3.11			026	27.205	6.260	96.3	1.21643	1486.3	27.382	2.35	25.5
687	690	5.835	34.5993	3.26			028	27.278	5.773	89.4	1.26223	1485.2	30.501	1.65	36.3
737*3	741	5.525	34.6033	3.18			029	27.311	5.529	86.6	1.3066	1485.0	33.7473	1.30	46.1
786	790	5.4853	34.6093	3.18			0303	27.329	5.416	85.3	1.34913	1485.4	37.0723	1.93	31.0
835*	840	5.290	34.6413	3.32			031	27.378	5.217	81.0	1.39023	1485.5	40.4943	1.62	37.1
885	890	5.340	34.695	3.31			030	27.415	5.262	78.2	1.43033	1486.6	44.0453	1.83	32.8
934*	939	5.430	34.7703	3.55			0283	27.463	5.347	74.5	1.4681	1487.8	47.5773	2.19	27.4
1033	1039	5.405	34.942	4.25			023	27.602	5.312	62.7	1.53673	1489.6	54.4883	1.50	40.1
1133*	1140	5.090	34.9573	4.63			022	27.652	4.990	58.5	1.59803	1490.0	61.3063	.00	.0

SHIP AN CRUISE 056 STATION 1631 DATE 24-11-70 GMT 8.40 LATITUDE 13 33.0 N LONGITUDE 60 45.0 W DEPTH 1172

DEPTH	PRESS	TEMP	SAL	OX	PH4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.53	36.095	4.59			002	23.697	26.580	420.9	0.000	1539.70	0.000	1.23	48.7
29	29	26.61	36.098	4.620			002	23.690	26.603	422.7	0.1183	1540.2	0.1820	1.68	35.7
59	59	26.60	36.100	4.56			002	23.695	26.586	423.5	0.2454	1540.7	0.755	4.36	13.8
88	88	26.20	36.137	4.37			002	23.849	26.179	410.0	0.3665	1540.3	1.664	9.62	6.2
98	98	25.42	36.196	4.10			002	24.136	25.397	383.0	0.4063	1538.8	2.041	5.80	10.3
108*	108	25.18	36.231	4.08			002	24.236	25.155	373.8	0.4442	1538.4	2.441	4.72	12.7
118	118	25.00	36.243	4.07			002	24.301	24.973	368.1	0.4814	1538.2	2.871	9.44	6.00
127*	127	24.39	36.328	4.00			002	24.550	24.361	344.7	0.5136	1537.0	3.274	6.24	9.6
137	137	23.99	36.325	3.97			003	24.667	23.959	333.9	0.5476	1536.2	3.734	4.38	13.7
147*	147	23.91	36.366	3.96			002	24.722	23.877	329.1	0.5808	1536.2	4.218	10.11	5.9
172	172	22.12	36.735	3.59			003	25.520	22.084	253.9	0.6540	1532.6	5.401	8.40	7.1
105*0	196	20.01	36.661	3.32			003	26.043	19.972	204.8	0.7093	1527.3	6.435	6.14	9.8
245	245	15.52	35.940	3.09			007	26.597	15.481	152.6	0.7972	1514.2	8.392	4.27	14.0
294*	295	13.07	35.593	2.94			010	26.836	13.023	128.5	0.8665	1506.6	10.290	2.77	21.0
343	344	11.22	35.253	2.87			013	26.951	11.176	119.7	0.9276	1500.7	12.283	2.69	22.3
392*	393	9.45	34.969	2.84			016	27.040	9.404	111.1	0.9845	1494.7	14.423	1.96	30.6
441	442	8.72	34.874	2.83			018	27.084	8.671	107.3	1.0384	1492.7	16.724	1.87	32.1
490*	492	8.25	34.535	2.86			019	27.125	8.207	103.9	1.0905	1491.7	19.211	2.33	25.7
537*	539	7.16	34.707	2.86			023	27.186	7.106	97.7	1.1382	1488.1	21.724	1.85	32.5
586	589	6.63	34.664	2.91			025	27.226	6.574	94.1	1.1855	1486.8	24.453	1.56	38.4
635*	638	6.17	34.618	3.00			027	27.250	6.111	91.9	1.2314	1485.7	27.331	1.72	34.9
683	686	5.765	34.594	3.11			028	27.283	5.704	88.8	1.2751	1484.8	30.290	1.65	36.4
732*	736	5.530	34.607	3.11			029	27.316	5.515	86.0	1.3183	1484.9	33.430	1.35	44.3
781	785	5.460	34.614	3.11			030	27.336	5.391	84.5	1.3605	1485.2	36.707	1.62	37.0
879*	884	5.350	34.683	3.24			030	27.404	5.272	79.2	1.4414	1486.5	43.602	2.12	28.3
976	982	5.485	34.869	4.30			025	27.535	5.397	68.5	1.5137	1488.9	50.474	2.05	29.2
1074*	1081	5.185	34.965	4.44			022	27.647	5.090	58.5	1.5766	1489.4	57.081	1.56	38.50
1123	1130	5.060	34.982	4.73			020	27.675	4.961	56.2	1.6050	1489.8	60.290	1.78	33.6
1172*	1180	4.890	35.006					27.714	4.788	52.7	1.6320	1489.9	63.472	0.00	0.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1630 24- 11 -70 664 13 28.0 N 60 46.0 W 12496

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.58	36.076	4.63			002	23.683	26.580	422.2	.0000	1539.7	.000	1.17	51.4
29	29	26.60	36.073	4.65			002	23.674	26.593	424.2	.1187	1540.2	.1836	1.77	34.0
59	59	26.60	36.083	4.60			002	23.682	26.586	424.8	.2463	1540.7	.7576	5.52	10.9
88	88	25.95	36.156	4.33			002	23.941	25.929	401.2	.3662	1539.8	1.655	10.12	5.9
98	98	25.09	36.226	4.34			002	24.260	25.067	371.1	.4049	1538.0	2.023	2.84	21.1
108*	108	25.10	36.255	4.07			002	24.279	25.075	369.8	.4421	1538.2	2.415	5.79	10.4
118	118	24.79	36.262	4.04			002	24.379	24.763	360.6	.4787	1537.7	2.838	7.19	8.3
128	128	24.40	36.315	3.98			002	24.537	24.371	346.0	.5141	1537.0	3.284	6.55	9.2
137	137	24.01	36.315	3.99			002	24.653	23.979	335.2	.5449	1536.2	3.701	2.50	24.0
147*	147	23.95	36.309	4.09			002	24.667	23.917	334.3	.5784	1536.2	4.190	8.44	7.1
172	172	22.40	36.441	3.84			003	25.218	22.364	282.7	.6558	1532.9	5.446	8.78	6.8
196*	196	21.19	36.752	3.43			003	25.793	21.150	228.8	.7175	1530.66	6.600	6.74	8.9
245	245	16.56	36.082	3.12			006	26.466	16.519	165.3	.8145	1517.5	8.753	4.55	13.2
294*	295	13.68	35.631	3.19			009	26.759	13.637	137.9	.8892	1508.7	10.800	3.49	17.2
343	344	11.24	35.220	2.94			013	26.921	11.196	122.4	.9533	1500.7	12.887	3.12	19.3
392*	393	9.365	34.962	2.81			017	27.048	9.320	110.2	1.0107	1494.4	15.042	2.51	24.0
441	442	8.215	34.229	2.83			022	27.127	8.168	102.7	1.0632	1490.7	17.283	1.72	35.0
490*	492	7.535	34.739	2.83			022	27.158	7.485	100.0	1.1132	1488.8	19.672	1.86	32.3
541*	543	6.970	34.690	2.84			024	27.200	6.917	96.3	1.1636	1487.4	22.339	1.81	33.1
591	594	6.455	34.650	2.88			026	27.238	6.399	92.8	1.2113	1486.1	25.106	1.55	38.8
640*	643	6.125	34.628	3.00			027	27.264	6.066	90.6	1.2565	1485.6	27.968	1.71	35.1
689	692	5.655	34.593	3.12			029	27.296	5.594	87.5	1.3005	1484.5	30.970	1.77	33.9
738*	742	5.49	34.618	3.09			030	27.336	5.425	84.1	1.3429	1484.6	34.077	1.39	43.2
788	792	5.360	34.626	3.14			031	27.358	5.291	82.4	1.3849	1484.9	37.370	1.44	41.6
886*	891	5.305	34.683	3.26			030	27.410	5.227	78.7	1.4646	1486.46	44.217	2.10	28.6
984	990	5.5106	34.880	3.85			025	27.540	5.421	68.1	1.5372	1489.1	51.174	1.91	31.4
1083*	1090	5.350	34.980	4.43			021	27.639	5.252	59.8	1.6011	1490.3	57.955	.00	.0

SHIP AN CRUISE 056 STATION 1629 DATE 24- II -70 GMT 4.1 LATITUDE 13 22.0 N LONGITUDE 60 48.0 W DEPTH 1192

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.57	36.074	4.60			002	23.684	26.570	422.1	.00003	1539.6	.000	.58	104.0
29	29	26.60	36.063	4.72			002	23.667	26.593	424.9	.11883	1540.2	.183	2.08	28.9
58	58	26.59	36.083	4.62			002	23.685	26.576	424.4	.24213	1540.6	.7323	7.21	8.3
87	87	25.38	36.190	4.15			002	24.144	25.360	381.8	.35933	1538.5	1.5933	8.92	6.7
96	96	24.79	36.245	4.02			002	24.366	24.768	361.0	.39283	1537.3	1.9063	4.75	12.6
106*	106	24.63	36.267	4.03			002	24.431	24.606	355.2	.42873	1537.1	2.2773	6.41	9.4
116	116	24.24	36.276	3.99			002	24.555	24.214	343.7	.46373	1536.4	2.675	3.96	15.2
125*	125	24.13	36.284	3.99			002	24.594	24.102	340.3	.49463	1536.3	3.056	3.56	16.9
135	135	24.07	36.305	3.94			002	24.628	24.040	337.5	.52863	1536.3	3.509	8.04	7.5
145*	145	23.52	36.353	3.93			002	24.827	23.488	318.9	.56153	1535.2	3.981	9.00	6.7
169	169	22.19	36.643	3.85			002	25.431	22.155	262.3	.6315	1532.6	5.098	9.24	6.5
193*	193	19.57	36.539	3.19			004	26.066	19.533	202.3	.6875	1525.9	6.128	5.87	10.2
242	242	15.73	35.969	3.09			007	26.572	15.691	154.9	.7755	1514.8	8.060	4.00	15.0
290*	291	13.04	35.499	3.03			010	26.789	12.999	134.6	.8453	1506.4	9.954	4.12	14.5
340	341	9.48	34.958	2.87			017	27.026	9.440	111.3	.9072	1494.0	11.938	2.75	21.8
389	390	8.510	34.888	2.75			019	27.128	8.468	102.0	.9598	1491.1	13.899	1.82	33.03
439	440	7.420	34.723	2.84			023	27.162	7.376	98.7	1.0103	1487.5	16.044	1.63	36.8
489*	491	6.900	34.667	2.923			024	27.191	6.852	96.2	1.0593	1486.2	18.380	1.13	53.0
539*	541	6.765	34.658	2.92			024	27.203	6.7133	95.7	1.1077	1486.5	20.931	1.60	37.4
588			34.731	2.91			024								
637*	640	6.455	34.684	2.92			026	27.265	6.3943	90.9	1.1998	1486.9	26.487	1.60	37.5
686	689	5.745	34.596	3.26			029	27.287	5.6833	88.5	1.2441	1484.8	29.497	1.76	34.1
735*	739	5.765	34.653	3.06			029	27.329	5.699	85.1	1.2870	1485.8	32.627	1.53	39.2
784	788	5.405	34.627	3.16			030	27.353	5.3363	82.9	1.3285	1485.1	35.868	1.85	32.4
882*	887	5.360	34.740	3.38			029	27.448	5.282	75.2	1.4067	1486.7	42.543	1.99	30.2
930	986	5.530	34.912	3.99			024	27.563	5.4413	66.0	1.4765	1489.2	49.207	1.74	34.5
1078*	1085	5.365	34.985	4.57			020	27.641	5.2683	59.6	1.5387	1490.3	55.772	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1628 24- 11 -70 2.0 13 17.0 N 60 50.0 W 1264

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.62	36.090	4.62			002	23.681	26.620	422.4	.0000	1539.8	.000	1.24	48.4
29	29	26.64	36.089	4.61			002	23.674	26.633	424.3	.1187	1540.3	.183	2.65	22.6
57	57	26.52	36.094	4.54			002	23.715	26.506	421.5	.2373	1540.5	.704	7.01	8.6
86	86	25.38	36.195	4.12			002	24.148	25.360	381.4	.3540	1538.5	1.550	5.01	12.0
96	96	25.15	36.198	4.06			002	24.221	25.128	374.8	.3919	1538.1	1.903	8.46	7.1
105	105	24.61	36.244	3.99			002	24.420	24.586	356.2	.4249	1537.0	2.242	6.79	8.5
115	115	24.23	36.278	4.16			002	24.560	24.204	343.2	.4599	1536.3	2.636	4.54	13.2
124	124	24.03	36.289	3.99			002	24.613	24.052	338.5	.4907	1536.1	3.013	9.24	6.3
134	134	23.39	36.370	3.93			002	24.878	23.361	313.6	.5234	1534.7	3.444	8.43	7.1
143	143	23.19	36.555	3.92			002	25.076	23.159	295.1	.5509	1534.6	3.834	10.15	5.9
167	167	21.11	36.796	3.43			002	25.849	21.076	222.4	.6132	1529.9	4.813	6.97	8.6
191	191	18.88	36.485	3.15			004	26.204	18.845	189.1	.6628	1523.9	5.718	5.04	11.9
239	239	15.83	35.988	3.09			007	26.564	15.791	155.7	.7460	1515.1	7.531	4.51	13.3
286	287	13.12	35.587	3.06				26.841	13.079	129.7	.8134	1506.7	9.331	3.34	18.0
334	335	10.42	35.109	3.09			014	26.983	10.379	115.9	.8727	1497.5	11.209	3.34	17.9
382	383	8.305	34.849	2.81			019	27.129	8.264	101.6	.9252	1490.1	13.130	1.69	35.5
430	431	7.475	34.727	2.83			023	27.157	7.431	99.0	.9737	1487.6	15.149	1.71	35.1
473	480	6.980	34.679	2.92			023	27.190	6.933	96.3	1.0203	1486.4	17.347	1.81	33.1
553	555	6.325	34.543	2.98			026	27.250	6.273	91.0	1.0916	1485.0	21.085	1.67	36.0
593	602	5.780	34.589	3.08				27.277	5.727	88.3	1.1331	1483.5	23.542	1.84	32.6
645	648	5.525	34.600	3.07			029	27.317	5.468	84.8	1.1733	1483.2	26.105	2.15	27.9
692	695	5.415	34.662	3.16			030	27.380	5.355	79.3	1.2121	1483.6	28.773	.98	61.1
738	742	5.595	34.668	3.10			029	27.362	5.529	81.8	1.2495	1485.1	31.521	1.01	59.4
784	788	5.510	34.664	3.20			029	27.370	5.440	81.6	1.2874	1485.5	34.487	1.59	37.7
830	835	5.315	34.669	3.26			030	27.397	5.242	79.2	1.3247	1485.5	37.580	2.12	28.2
922	927	5.370	34.833	3.75			027	27.520	5.288	68.9	1.3934	1487.5	43.752	2.18	27.5
1014	1020	5.120	34.951	4.42			022	27.644	5.031	58.0	1.4524	1488.2	49.600	1.35	44.4
1106	1113	4.935	34.970	4.73			021	27.680	4.839	55.2	1.5050	1489.0	55.331	1.49	40.4
1199	1207	4.715	34.998	5.17			019	27.728	4.612	51.2	1.5550	1489.6	61.256	.00	.0

SHIP AN CRUISE 056 STATION 1627 DATE 23- II -70 GMT 23.9 LATITUDE 13 12.0 N LONGITUDE 60 53.0 W DEPTH 1383

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.65	36.096	4.90			002	23.676	26.650	422.9	.0000	1539.8	.0000	1.76	34.2
29	29	26.61	36.088	4.75			002	23.682	26.603	423.5	.1187	1540.2	.1820	3.16	19.0
48	48	26.48	36.095	4.38			002	23.729	26.468	419.8	.1989	1540.2	.4980	5.19	11.6
87	87	25.69	36.172	4.24			002	24.035	25.669	392.2	.3576	1539.2	1.5840	8.42	7.1
96	96	25.15	36.212	4.12			002	24.231	25.128	373.8	.3921	1538.1	1.908	6.28	9.6
106*	106	24.83	36.240	4.02			002	24.350	24.806	362.9	.4291	1537.6	2.289	5.34	11.2
116	116	24.63	36.271	3.99			002	24.434	24.604	355.3	.4651	1537.3	2.698	11.22	5.3
125*	125	23.57	36.322	4.09			002	24.789	23.543	321.8	.4956	1534.9	3.075	9.16	6.6
135	135	23.33	36.574	4.10			002	25.050	23.301	297.3	.5267	1534.8	3.488	10.95	5.5
145*	145	22.33	36.689	3.87			003	25.426	22.299	261.9	.5547	1532.6	3.889	8.71	6.9
169	169	20.19	36.654	3.43			003	25.990	20.157	208.8	.6114	1527.4	4.794	6.94	8.6
193*	193	18.04	36.389	3.20			004	26.343	18.005	175.8	.6578	1521.4	5.649	4.25	14.1
241	241	15.56	35.944	3.14			007	26.531	15.521	153.0	.7371	1514.2	7.400	3.76	16.0
290*	291	13.03	35.490	3.09			010	26.784	12.989	135.1	.8081	1506.3	9.322	3.14	19.1
338	339	11.86	35.362	2.93			012	26.915	11.815	123.3	.8705	1503.0	11.324	3.35	17.9
386	387	9.285	34.956	2.83			017	27.057	9.241	109.2	.9266	1494.0	13.402	2.42	24.7
434	435	8.235	34.835	2.90			019	27.129	8.188	102.5	.9778	1490.7	15.551	1.93	31.2
482*	484	7.875	34.823	2.92			021	27.174	7.824	98.8	1.0264	1490.1	17.836	1.96	30.7
406*	407	8.525	34.856	2.96			018	27.100	8.481	104.9	.9485	1491.4	14.293	1.97	30.5
452	454	8.130	34.836	2.93			020	27.146	8.082	101.1	.9962	1490.6	16.392	1.89	31.8
545	547	6.645	34.659	3.02			025	27.220	6.593	94.1	1.0876	1486.1	21.057	1.46	41.0
639	642	6.000	34.605	3.16			027	27.262	5.942	90.6	1.1751	1485.0	26.369	1.49	40.3
734*	738	5.540	34.592	3.32			030	27.309	5.475	86.7	1.2599	1484.7	32.348	2.13	28.2
831	836	5.350	34.721	3.39			029	27.434	5.277	75.8	1.3394	1485.7	38.716	1.84	32.5
928*	933	5.185	34.810	3.76			030	27.524	5.104	68.2	1.4099	1486.8	45.076	2.02	29.8
1026	1032	4.965	34.917	4.39			025	27.635	4.876	58.6	1.4726	1487.7	51.358	1.46	41.0
1126*	1133	4.885	34.973	5.01			020	27.688	4.787	54.5	1.5298	1489.1	57.675	1.24	48.4
1227	1236	4.765	34.997	5.23			018	27.721	4.659	52.3	1.5843	1490.3	64.272	1.10	54.6
1329*	1339	4.650	35.008	5.35			017	27.743	4.535	51.0	1.6376	1491.6	71.279	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1628 24-11-70 2.0 13 17.0 N 60 50.0 W 1264

DEPTH	PRESS	TEMP	SAL	OX	P84	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.62	36.090	4.62			002	23.681	26.620	422.4	0000	1535.8	000	1.24	48.4
29	29	26.64	36.089	4.61			002	23.674	26.633	424.3	0187	1540.3	0183	2.65	22.6
57	57	26.52	36.094	4.54			002	23.715	26.506	421.5	0273	1540.5	0704	7.01	8.0
86	86	25.38	36.195	4.12			002	24.148	25.360	381.4	03540	1538.5	1.550	5.01	12.0
96	96	25.15	36.198	4.06			002	24.221	25.128	374.8	03919	1538.1	1.503	8.46	7.0
105	105	24.61	36.244	3.99			002	24.420	24.886	356.2	04249	1537.0	2.242	6.79	8.0
115	115	24.23	36.278	4.16			002	24.560	24.204	343.2	04599	1536.3	2.636	4.54	13.0
124	124	24.03	36.289	3.99			002	24.613	24.052	338.5	04907	1536.1	3.013	9.24	6.0
134	134	23.39	36.370	3.93			002	24.878	23.361	313.6	05234	1534.7	3.444	8.43	7.0
143	143	23.19	36.555	3.92			002	25.076	23.159	295.1	05509	1534.6	3.834	10.15	5.0
167	167	21.11	36.796	3.43			002	25.849	21.076	222.4	06132	1529.9	4.813	6.97	8.0
191	191	18.88	36.485	3.15			004	26.204	18.845	189.1	06628	1523.9	5.718	5.04	11.0
239	239	15.83	35.988	3.09			007	26.564	15.791	155.7	07460	1515.1	7.531	4.51	13.0
286	287	13.12	35.587	3.06				26.841	13.079	129.7	08134	1506.7	9.331	3.34	18.0
334	335	10.42	35.109	3.09			014	26.983	10.379	115.9	08727	1497.5	11.209	3.34	17.0
382	383	8.305	34.849	2.81			019	27.129	8.264	101.6	09252	1490.1	13.130	1.69	35.0
430	431	7.475	34.727	2.83			023	27.157	7.431	99.0	09737	1487.6	15.149	1.71	35.0
478	480	6.980	34.679	2.92			023	27.190	6.933	96.3	1.0209	1486.4	17.347	1.81	33.0
533	555	6.325	34.543	2.98			026	27.250	6.273	91.0	1.0916	1485.0	21.085	1.67	36.0
599	602	5.780	34.589	3.08				27.277	5.727	88.3	1.1331	1483.5	23.842	1.84	32.0
645	648	5.525	34.600	3.07			029	27.317	5.468	84.8	1.1733	1483.2	26.105	2.15	27.0
692	695	5.415	34.662	3.16			030	27.380	5.355	79.3	1.2121	1483.6	28.773	0.98	61.0
738	742	5.535	34.668	3.10			029	27.362	5.529	81.8	1.2495	1485.1	31.521	1.01	59.5
784	788	5.510	34.664	3.20			029	27.370	5.440	81.6	1.2874	1485.3	34.487	1.59	37.0
830	835	5.315	34.669	3.26			030	27.397	5.242	79.2	1.3247	1485.5	37.580	2.12	28.0
922	927	5.370	34.833	3.75			027	27.520	5.288	68.9	1.3594	1487.0	43.752	2.18	27.5
1014	1020	5.120	34.951	4.42			022	27.644	5.031	58.0	1.4524	1488.2	49.600	1.36	40.4
1106	1113	4.935	34.970	4.73			021	27.680	4.839	55.2	1.5050	1489.0	55.331	1.49	40.4
1199	1207	4.715	34.998	5.17			019	27.728	4.612	51.2	1.5550	1489.8	61.256	0.00	0.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1627 23- II -70 23.9 13 12.0 N 60 53.0 W 1383

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.65	36.096	4.90			002	23.676	26.650	422.9	.00005	1539.8	.000	1.76	34.2
29	29	26.61	36.088	4.75			002	23.682	26.603	423.5	.11875	1540.2	.1825	3.16	19.0
48	48	26.48	36.095	4.38			002	23.729	26.468	419.8	.1989	1540.2	.4985	5.19	11.6
87	87	25.69	36.172	4.24			002	24.035	25.669	392.2	.3576	1539.2	1.584	8.42	7.1
96	96	25.15	36.212	4.12			002	24.231	25.128	373.8	.3921	1538.1	1.908	6.28	9.6
106*	106	24.83	36.240	4.02			002	24.350	24.806	362.9	.4291	1537.6	2.289	5.34	11.2
116	116	24.63	36.271	3.99			002	24.434	24.604	355.3	.46515	1537.3	2.698	11.22	5.3
125*	125	23.57	36.322	4.09			002	24.789	23.543	321.8	.49565	1534.9	3.075	9.16	6.6
135	135	23.33	36.574	4.10			002	25.050	23.301	297.3	.52675	1534.8	3.488	10.95	5.5
145*	145	22.33	36.689	3.87			003	25.426	22.299	261.9	.55475	1532.6	3.889	8.71	6.9
169	169	20.19	36.654	3.43			003	25.990	20.157	208.8	.6114	1527.4	4.794	6.94	8.6
193*	193	18.04	36.389	3.20			004	26.343	18.005	175.8	.6578	1521.4	5.649	4.25	14.1
241	241	15.56	35.944	3.14			007	26.591	15.521	153.0	.7371	1514.2	7.400	3.76	16.0
290*	291	13.03	35.490	3.09			010	26.784	12.989	135.1	.80815	1506.3	9.322	3.14	19.1
338	339	11.86	35.362	2.93			012	26.915	11.815	123.3	.87055	1503.0	11.324	3.35	17.9
386	387	9.265	34.956	2.83			017	27.057	9.241	109.2	.92665	1494.0	13.402	2.42	24.7
434	435	8.235	34.835	2.90			019	27.129	8.188	102.5	.9778	1490.7	15.551	1.93	31.2
482*	484	7.875	34.823	2.92			021	27.174	7.824	93.8	1.0264	1490.1	17.836	1.96	30.7
406*	407	8.525	34.856	2.96			018	27.100	8.481	104.9	.9485	1491.4	14.293	1.97	30.5
452	454	8.130	34.836	2.93			020	27.146	8.082	101.1	.9962	1490.6	16.392	1.89	31.8
545	547	6.645	34.659	3.02			025	27.220	6.593	94.1	1.0876	1486.1	21.057	1.46	41.0
639	642	6.000	34.605	3.16			027	27.262	5.942	90.6	1.1751	1485.0	26.369	1.49	40.3
734*	738	5.540	34.592	3.32			030	27.309	5.475	86.7	1.2599	1484.7	32.348	2.13	28.2
831	836	5.350	34.721	3.39			029	27.434	5.277	75.8	1.3394	1485.7	38.716	1.84	32.5
928*	933	5.185	34.810	3.76			030	27.524	5.104	68.2	1.4099	1486.8	45.076	2.02	29.8
1026	1032	4.965	34.917	4.39			025	27.635	4.876	58.6	1.4726	1487.7	51.358	1.46	41.0
1126*	1133	4.885	34.973	5.01			020	27.688	4.787	54.5	1.5298	1489.1	57.675	1.24	48.4
1227	1236	4.765	34.997	5.23			018	27.721	4.659	52.3	1.5843	1490.3	64.272	1.10	54.6
1329*	1339	4.650	35.008	5.35			017	27.743	4.535	51.0	1.6376	1491.6	71.279	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1626 23- II -70 8.1 13 2.0 N 60 54.0 W 1442

DEPTH	PRESS	TEMP	SAL	σ _t	P ₀₄	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.65	36.079				002	23.663	26.650	424.1	.0000	1539.8	.000	1.16	51.6
29	29	26.68	36.080	4.72			002	23.654	26.673	426.2	.1192	1540.4	.184	2.32	25.8
57	57	26.63	36.095	4.69			002	23.681	26.616	424.7	.2385	1540.7	.7092	3.14	19.1
86	86	26.44	36.107	4.51			002	23.751	26.419	419.3	.3611	1540.8	1.605	12.13	4.9
95	95	25.35	36.206	4.16			002	24.165	25.328	380.1	.3972	1538.6	1.938	7.53	8.0
105*	105	24.78	36.205	4.02			002	24.339	24.756	363.9	.4345	1537.4	2.320	10.12	5.9
114	114	24.09	36.311	4.03			002	24.626	24.065	336.8	.4661	1536.0	2.674	8.42	7.1
124	124	23.63	36.421	4.05			002	24.846	23.603	316.3	.4989	1535.2	3.072	6.69	9.0
133	133	23.15	36.397	3.93			002	24.968	23.121	304.9	.5269	1534.1	3.441	9.83	6.1
143	143	22.43	36.521	3.91			003	25.270	22.400	276.6	.5561	1532.6	3.853	10.17	5.9
166	166	20.05	36.635	3.30			003	26.013	20.018	206.5	.6119	1526.9	4.726	6.41	9.4
190*	190	18.25	36.418	3.20			004	26.312	18.216	178.6	.6583	1522.0	5.569	4.08	14.7
233	233	16.14	36.052	3.15			007	26.541	16.101	157.9	.7395	1516.1	7.337	4.45	13.5
285*	285	12.92	35.492	2.92			010	26.808	12.880	132.6	.8081	1505.9	9.164	2.90	20.7
333			35.333	2.87			012								
380*	381	10.67	35.218	2.85			014	27.023	10.622	113.3	.9256	1499.3	13.129	2.49	24.1
428	429	9.60	35.077	2.90			016	27.099	9.550	106.4	.9787	1496.0	15.326	1.86	32.3
475*	477	8.67	34.926	2.75			019	27.133	8.617	103.3	1.0283	1493.1	17.625	2.50	24.0
524*	526	7.07	34.714	2.96			023	27.205	7.018	95.7	1.0774	1487.5	20.139	1.74	34.5
572	574	6.70	34.693	2.98			025	27.239	6.645	92.7	1.1230	1486.8	22.702	1.74	34.4
663*	671	5.78	34.625	3.12			028	27.305	5.720	86.5	1.2097	1484.7	28.212	1.74	34.4
763	767	5.49	34.675	3.48			029	27.381	5.423	80.2	1.2896	1485.1	34.072	1.39	43.2
859*	864	5.2302	34.697	3.42			029	27.4242	5.205	77.0	1.3657	1485.9	40.414	1.95	30.8
955	961	5.450	34.860	3.82			029	27.532	5.364	68.4	1.4361	1488.4	46.966	2.13	28.2
1051*	1058	5.275	34.989	4.71			020	27.655	5.181	57.7	1.4973	1489.5	53.252	1.58	37.9
1148	1156	4.925	35.007	5.12			018	27.711	4.825	52.8	1.5515	1489.7	59.370	1.29	46.3
1245*	1254	4.665	35.009	5.35				27.742	4.558	50.2	1.6020	1490.2	65.588	1.15	52.2
1343	1353	4.430	35.002	5.56				27.763	4.316	48.6	1.6510	1490.9	72.115	1.29	46.3
1442*	1453	4.080	34.989					27.790	3.960	45.9	1.6983	1491.1	78.901	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1625 23- II -70 5.4 12 48.0 N 60 55.0 W 1405

DEPTH	PRESS	TEMP	SAL	σ _t	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.59	36.030	4.120			002	23.645	26.590	425.8	.0000	1539.6	.0006	1.15	52.0
29	29	26.63	36.035	4.66			002	23.636	26.623	427.9	.1197	1540.2	.1846	2.76	21.7
58	58	26.59	36.083	4.61			002	23.685	26.576	424.4	.24356	1540.6	.735	5.23	11.5
87	87	26.00	36.143	4.41			002	23.916	25.979	403.5	.36386	1539.9	1.623	9.93	6.0
96	96	25.23	36.193	4.14			002	24.192	25.208	377.5	.3990	1538.3	1.953	6.71	8.9
106*	106	24.89	36.236	4.08			002	24.329	24.866	364.9	.43626	1537.7	2.337	5.50	10.9
116	116	24.64	36.254	4.03			002	24.418	24.614	356.8	.47246	1537.3	2.748	5.23	11.5
125*	125	24.58	36.326	4.09			002	24.491	24.552	350.2	.50436	1537.4	3.142	10.80	5.6
135	135	23.96	36.563	4.06			002	24.856	23.9306	315.8	.53776	1536.3	3.586	6.46	9.3
144*	144	23.63	36.564	4.16			002	24.969	23.598	305.46	.56576	1535.7	3.986	7.07	8.5
169	169	22.53	36.685	3.88			002	25.351	22.544	269.9	.63736	1533.6	5.133	9.97	6.0
193*	193	19.58	36.579	3.27			003	26.094	19.543	199.7	.69456	1526.0	6.177	6.10	9.8
241	241	15.26	35.306	3.03			007	26.630	15.222	149.3	.77876	1513.3	8.019	3.50	17.2
289*	290	12.96	35.480	3.00			010	26.791	12.919	134.4	.84716	1506.1	9.871	3.05	19.6
337			35.162	2.91			013								
385*	385	9.42	34.949	2.81			016	27.029	9.375	111.9	.9661	1494.5	13.931	2.10	28.5
433	434	8.550	34.835	2.83			020	27.080	8.502	107.3	1.0190	1491.9	16.152	1.87	32.1
482*	484	8.740	34.6346	2.81			019	27.128	8.686	104.0	1.0712	1493.5	18.598	4.33	13.8
485*6	4876	8.775	34.964	2.85				27.146	8.7216	102.4	1.0743	1493.8	18.753	2.51	23.9
529	5316	8.075	34.918	2.92			018	27.218	8.0136	95.6	1.1182	1491.8	21.034	2.21	27.1
573*	5756	6.805	34.743	2.96			023	27.264	6.7496	90.5	1.1594	1487.3	23.367	1.016	59.2
617	6206	6.365	34.633	3.010			028	27.237	6.307	93.2	1.2001	1486.2	25.858	2.656	22.6
661*	6646	6.170	34.716	2.98			028	27.328	6.1096	85.0	1.2396	1486.2	28.447	.976	62.0
705	7086	5.585	34.619	3.28			029	27.325	5.5236	84.9	1.2773	1484.5	31.092	1.58	37.9
793	7976	5.305	34.645	3.20			031	27.379	5.2366	80.4	1.3506	1484.8	36.730	1.75	34.3
881	8866	5.320	34.743	3.43			029	27.455	5.242	74.4	1.4194	1486.5	42.632	2.036	29.5
970*	9766	5.285	34.872	3.96			026	27.561	5.199	65.5	1.4822	1488.0	48.596	1.736	34.6
1057	10646	5.255	34.958	4.27				27.633	5.1616	59.8	1.5372	1489.4	54.325	1.56	38.4
1234	12436	4.700	35.002	5.28			018	27.733	4.5946	51.1	1.6364	1490.2	65.952	.00	.0

SHIP AN CRUISE 056 STATION 1624 DATE 23- 11 -70 GMT 2.42 LATITUDE 12 34.0 N LONGITUDE 60 56.0 W DEPTH 1412

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.69	36.012	4.71			002	23.600	26.690	430.2	.0000	1539.8	.0000	1.61	37.3
28	28	26.70	36.019	4.65			002	23.602	26.693	431.1	.11642	1540.3	.1732	4.17	14.4
57	57	26.63	36.174	4.51			001	23.741	26.616	419.1	.2399	1540.8	.7082	7.84	7.7
85	85	25.03	36.213	4.09			002	24.269	25.010	369.8	.3506	1537.7	1.502	10.14	5.9
95	95	24.80	36.545	4.082			002	24.590	24.778	339.6	.3861	1537.7	1.829	8.52	7.0
104*	104	24.44	36.668	4.10			002	24.792	24.416	320.8	.4159	1537.1	2.133	7.81	7.7
114	114	23.82	36.671	4.07			002	24.979	23.795	303.3	.4472	1535.8	2.482	6.11	9.8
124	124	22.90	36.463	3.94			002	25.031	22.873	292.9	.4772	1533.4	2.846	6.16	9.7
133	133	22.37	36.398	3.87			003	25.194	22.342	283.4	.5032	1532.2	3.188	7.82	7.7
142*	142	22.03	36.514	3.96			002	25.364	22.050	267.6	.5281	1531.7	3.538	8.07	7.4
165	166	21.19	36.524	3.58			002	25.848	21.156	222.4	.5871	1530.2	4.463	6.19	9.7
190	190	19.01	36.424	3.27			005	26.124	18.975	196.6	.6376	1524.2	5.381	5.76	10.4
237	237	15.09	35.805	3.01			008	26.590	15.053	152.8	.7201	1512.5	7.163	4.31	13.9
285	286	12.23	35.365	2.98			011	26.846	12.191	128.7	.7881	1503.4	8.967	2.79	21.5
332			35.062	2.96			014								
380*	381	9.195	34.916	2.85			017	27.040	9.152	110.6	.9024	1493.5	12.827	1.86	32.3
427	428	8.470	34.815	2.85			019	27.077	8.423	107.4	.9540	1491.5	14.961	2.13	28.2
475*	477	7.850	34.767	2.92			020	27.132	7.810	102.5	1.0047	1489.9	17.308	1.52	39.5
471*	473	7.830	34.758	2.96			021	27.129	7.781	102.7	1.0006	1489.7	17.107	2.10	28.6
518	520	6.970	34.663	3.012			023	27.178	6.919	97.9	1.0481	1487.0	19.516	2.15	27.9
555*	567	6.805	34.711	2.982			024	27.239	6.750	92.8	1.0932	1487.2	22.025	1.54	39.1
612	615	6.715	34.730	2.932			025	27.266	6.656	90.8	1.1367	1487.6	24.652	1.98	30.3
659*	662	6.240	34.707	3.032			027	27.3112	6.178	86.6	1.1787	1486.5	27.394	1.85	32.4
706	710	5.830	34.689	3.27			028	27.350	5.766	83.0	1.2189	1485.6	30.210	1.52	39.6
753*	757	5.535	34.672	3.322			029	27.373	5.468	80.9	1.2577	1485.1	33.121	1.84	32.7
847	852	5.420	34.765	3.472			028	27.460	5.345	73.7	1.3310	1486.4	39.135	1.70	35.2
942		5.380		4.262											
1130	1137	5.155	35.003	4.832			019	27.681	5.054	56.0	1.5163	1490.3	57.616	1.12	53.4
1318	1328	4.835	35.006	5.332			017	27.720	4.719	53.6	1.6205	1492.1	70.717	.00	.0

SHIP AN CRUISE C56 STATION 1660 DATE 14-III -70 GMT 9.2 LATITUDE 11 42.0 N LONGITUDE 61 58.0 W DEPTH 746

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH85	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.88	35.483	4.48			003	23.141	26.880	474.0	.00001	1539.7	.0001	1.17	51.5
34	34	26.92	35.486	4.67			003	23.130	26.912	476.4	.1570	1540.3	.282	10.38	5.8
68	68	26.25	36.720	4.37			002	24.273	26.234	368.8	.3009	1540.7	1.001	9.83	6.1
78	78	25.46	36.791	4.07			002	24.573	25.442	340.6	.3364	1539.2	1.266	11.74	5.1
88	88	24.38	36.927	4.04			001	25.006	24.360	299.8	.3665	1537.0	1.538	10.69	5.6
98*	98	23.27	36.964	3.73			002	25.363	23.249	266.1	.3969	1534.5	1.807	12.44	4.8
108	108	21.04	36.771	3.53			003	25.849	21.018	220.1	.4213	1528.8	2.064	7.17	8.4
117*	117	20.15	36.641	3.36			003	25.991	20.127	206.8	.4406	1526.4	2.286	9.26	6.5
127	127	18.61	36.465	3.19			004	26.258	18.587	181.6	.4601	1522.1	2.529	3.66	16.4
137*	137	18.37	36.435	3.28			004	26.295	18.345	178.4	.4782	1521.5	2.773	4.63	13.0
166	166	17.03	36.244	3.18				26.479	17.002	161.7	.5278	1517.9	3.539	4.70	12.8
195*	195	14.38	35.701	3.32			008	26.665	14.350	144.2	.5723	1509.5	4.360	1.98	30.3
243	243	12.89	35.350	3.28			009	26.704	12.856	141.3	.6412	1504.9	5.906	3.261	18.4
292*	293	12.55	35.458	2.94			010	26.855	12.509	128.2	.7076	1504.7	7.720	2.97	20.2
340	341	10.89	35.198	2.95			014	26.968	10.847	117.7	.7670	1499.4	9.640	1.931	31.1
388*	389	10.29	35.114	3.03			015	27.010	10.242	114.5	.8231	1497.9	11.733	1.991	30.1
437	439	9.57	35.014	2.87			017	27.055	9.519	110.7	.8786	1496.0	14.083	2.92	20.6
485*	487	7.92	34.814	3.04			021	27.160	7.869	100.1	.9295	1490.3	16.490	1.69	35.3
510*	512	7.73	34.799	3.03			022	27.176	7.677	98.8	.9546	1490.0	17.770	1.59	37.8
558	560	7.30	34.752	2.99			023	27.202	7.244	96.7	1.0019	1489.0	20.362	1.80	33.3
606*	609	6.74	34.697	2.98			025	27.237	6.681	93.5	1.0479	1487.6	23.112	2.03	29.6
655	658	6.17	34.663	3.29			027	27.286	6.109	88.8	1.0929	1486.1	26.026	2.26	26.5
704*	708	5.68	34.668	3.14			029	27.352	5.617	82.5	1.1352	1484.9	28.978	.001	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	C56	1661	15-III -70	23.2	11 48.0 N	61 55.0 W	265

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.18	35.201	4.85			004	22.833	27.180	503.4	.0000	1540.0	.000	2.55	23.6
20	20	27.22	35.251	4.79			003	22.857	27.215	501.9	.0956	1540.5	.103	3.22	18.7
39	39	27.22	35.315	4.76			003	22.906	27.210	498.0	.1906	1540.9	.3892	7.10	8.5
58	58	27.06	35.633	4.51			002	23.196	27.046	471.1	.2828	1541.2	.844	17.49	3.4
68	68	26.03	36.484	4.31			002	24.164	26.014	379.2	.3254	1540.0	1.116	16.82	3.6
78*	78	24.05	36.866	4.08			002	25.058	24.033	294.3	.3591	1535.9	1.366	10.212	5.9
88	88	23.04	36.903	3.92			002	25.384	23.021	263.7	.3871	1533.7	1.603	8.90	6.7
98	98	22.07	36.861	3.75			002	25.630	22.0502	240.6	.4124	1531.4	1.843	11.80	5.1
107	107	20.27	36.726	3.57			003	26.023	20.249	203.4	.4325	1526.6	2.053	6.57	9.1
117*	1172	19.49	36.628	3.47			003	26.155	19.4682	191.1	.4523	1524.6	2.280	5.86	10.2
136	136	18.10	36.421	3.37			004	26.352	18.0762	172.9	.4870	1520.7	2.729	4.44	13.5
156*	156	17.08	36.245	3.24			005	26.467	17.0532	162.5	.5207	1517.8	3.232	4.83	12.4
176	176	15.65	35.988	3.11			007	26.605	15.6222	149.7	.5521	1513.5	3.764	2.37	25.3
195*	195	15.17	35.881	3.12			007	26.630	15.139	147.7	.5805	1512.2	4.304	2.26	26.5
214	214	14.86	35.822	3.24			008	26.654	14.8272	146.0	.6086	1511.5	4.893	4.51	13.3
234	234	13.64	35.637	3.08			009	26.772	13.6062	134.9	.6368	1507.6	5.580	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1664 16-111 -70 11.8 11 32.0 N 61 55.0 W 565

DEPTH	PRESS	TEMP	SAL	σ _t	P84	PH85	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	26.89	35.678	4.48			003	23.284	26.890	460.3	.0000	1539.9	.000	1.48	40.5
26	26	26.92	35.689	4.92			003	23.283	26.914	461.4	.1153	1540.4	.160	9.21	6.5
59	59	25.13	36.118	4.42			002	24.151	25.166	379.9	.2544	1537.5	.742	13.70	4.4
93	93	19.29	36.570	3.64			003	26.163	19.273	189.5	.3515	1523.5	1.441	6.21	9.7
103	103	15.42	36.432	3.30			005	26.280	18.401	178.6	.3700	1521.1	1.626	6.17	9.7
113*	113	17.54	36.298	3.11			005	26.396	17.520	167.8	.3874	1518.6	1.819	3.02	19.9
123	123	17.32	36.260	3.18			006	26.421	17.299	165.8	.4041	1518.02	2.021	4.76	12.6
133*	133	16.81	36.188	3.16			007	26.488	16.787	159.6	.4205	1516.6	2.235	3.62	16.6
152	152	16.22	36.099	3.13			007	26.559	16.195	153.5	.4504	1515.0	2.672	3.53	16.9
162*	162	15.87	36.040	3.30			007	26.594	15.844	150.3	.4656	1514.0	2.917	2.93	20.5
191	191	14.95	35.857	3.13			008	26.661	14.920	144.7	.5086	1511.4	3.694	2.47	24.3
221*	221	14.03	35.657	3.14			008	26.706	13.997	141.0	.5517	1508.7	4.604	3.42	17.5
270	271	12.85	35.553	3.61			010	26.869	12.812	126.4	.6176	1505.5	6.255	2.36	25.4
319*	320	11.73	35.358	3.04			012	26.937	11.687	120.7	.6785	1502.2	8.092	3.03	19.8
368	369	9.62	35.024	3.05			016	27.054	9.577	109.3	.7352	1495.0	10.085	2.21	27.1
417*	419	8.40	34.845	2.85			019	27.111	8.355	104.0	.7878	1491.1	12.202	1.93	30.8
466	468	7.98	34.823	2.95			021	27.158	7.931	100.1	.8381	1490.2	14.482	1.52	39.6
516*	518	7.61	34.784	2.94			022	27.182	7.557	98.3	.8881	1489.6	17.000	2.92	20.5
565*	568	6.22	34.679	2.93			025	27.292	6.168	87.1	.9338	1484.8	19.533	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1665	16-III -70	14.2	11 30.0 N	61 56.0 W	366

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.00	35.632	4.47			004	23.215	27.000	466.9	.00001	1540.1	.0001	3.82	15.7
23	23	26.87	35.691	4.54			004	23.301	26.864	459.6	.10201	1540.3	.1241	7.04	8.5
56	56	26.07	36.015	4.42			003	23.798	26.057	413.6	.24631	1539.4	.695	14.31	4.2
88	88	21.07	36.805	3.51			003	25.8661	21.052	217.7	.3476	1528.6	1.390	7.68	7.8
98	98	19.94	36.643	3.30			004	26.0481	19.921	200.7	.36861	1525.5	1.590	9.51	6.3
107*	107	18.72	36.560	3.21			005	26.3021	18.700	176.7	.38571	1522.2	1.768	2.73	22.0
116	116	18.04	36.357	3.08			005	26.318	18.019	175.4	.40161	1520.1	1.950	4.82	12.4
126*	126	17.67	36.328	3.15			005	26.388	17.648	169.1	.41891	1519.2	2.165	5.57	10.8
135	135	17.02	36.232	3.13			006	26.4721	16.997	161.3	.43381	1517.3	2.364	4.59	13.1
149*	149	16.27	36.114	3.17			006	26.5591	16.245	153.4	.45601	1515.1	2.686	2.65	22.6
167	167	15.87	36.036	3.19			006	26.5911	15.843	150.8	.48351	1514.1	3.131	3.51	17.1
186*	186	15.10	35.895	3.13			007	26.657	15.071	145.0	.51171	1511.8	3.642	3.13	19.1
209	209	14.42	35.762	3.14			008	26.719	14.388	139.6	.54461	1509.9	4.308	3.54	17.0
232	232	13.42	35.613	2.93			011	26.800	13.386	132.2	.57601	1506.8	5.018	1.81	33.2
256	257	13.24	35.587	2.92			011	26.816	13.203	131.2	.6078	1506.6	5.813	2.79	21.5
279	280	12.61	35.484	2.90			012	26.864	12.571	127.1	.63771	1504.7	6.633	2.84	21.1
325	326	11.09	35.236	2.85			014	26.961	11.048	118.1	.69441	1499.9	8.387	2.44	24.6
349*	350	10.48	35.141	2.85			015	26.997	10.437	114.9	.72251	1498.0	9.360	.00	.0

SHIP AN CRUISE 056 STATION 1666 DATE 16-III -70 GMT 18-1 LATITUDE 11 23.0 N LONGITUDE 61 55.0 W DEPTH 159

DEPTH	PRESS	TEMP	SAL	OX	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.08	35.624	4.57			004	23.183	27.080	470.0	.0000	1540.3	.000	4.15	14.4
24	24	26.88	35.684	4.43			004	23.292	26.874	460.5	.1071	1540.3	.136	11.53	5.2
57	57	24.65	36.568	4.12			003	24.668	24.637	330.6	.2379	1536.7	.642	11.18	5.4
90	90	20.55	36.743	3.41			003	25.961	20.532	208.7	.3272	1527.1	1.280	6.42	9.3
100	100	19.76	36.631	3.42			004	26.087	19.741	197.1	.3476	1525.0	1.478	7.29	8.2
109*	109	19.13	36.609	3.44			003	26.234	19.110	183.3	.3647	1523.4	1.662	9.60	6.3
119	119	18.00	36.611	3.30			004	26.523	17.979	156.1	.3813	1520.4	1.860	6.78	8.9
123*	123	16.85	36.419	3.35			005	26.649	16.858	144.3	.3954	1517.0	2.032	2.89	20.8
138	138	16.09	36.204	3.23			006	26.670	16.067	142.5	.4098	1514.5	2.228	3.59	16.7
152*	152	15.43	36.074	3.22			007	26.721	15.406	138.0	.4295	1512.5	2.521	.00	.0

SHIP AN CRUISE 056 STATION 1667 DATE 16-III -702 GMT 20.1 LATITUDE 11 19.0 N LONGITUDE 61 56.0 W DEPTH 144

DEPTH	PRESS	TEMP	SAL	θX	PE4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.90	35.604	4.50			005	23.226	26.900	465.9	.00002	1539.9	.000	4.88	12.3
19	19	26.74	35.7002	4.60			005	23.349	26.735	454.9	.08302	1539.9	.084	11.75	5.1
38	38	25.15	36.133	4.12			004	24.172	25.141	377.1	.1621	1537.1	.3082	13.86	4.3
48	48	23.71	36.361	3.87			004	24.777	23.699	319.8	.1971	1534.1	.460	14.75	4.1
57	57	22.24	36.616	3.35			005	25.396	22.228	261.2	.2233	1530.8	.6002	13.84	4.3
66*	66	20.62	36.741	3.38			004	25.940	20.607	209.7	.2446	1526.9	.7332	5.67	10.6
76	76	20.39	36.787	3.56			003	26.038	20.375	200.9	.2652	1526.5	.8822	5.56	10.8
86*	86	19.77	36.692	3.43			003	26.130	19.754	192.4	.2849	1524.9	1.046	6.72	8.9
95	95	19.05	36.609	3.44			003	26.255	19.032	180.8	.3018	1523.0	1.202	6.22	9.6
104*	104	18.17	36.455	3.45			004.2	26.3612	18.151	171.0	.3177	1520.4	1.364	6.55	9.2
114	114	16.89	36.217	3.26			005	26.491	16.871	158.7	.3342	1516.6	1.549	2.79	21.5
124*	124	16.64	36.166	3.51			006	26.512	16.619	157.1	.3501	1515.9	1.743	3.51	17.1
133	133	16.38	36.127	3.25				26.543	16.358	154.4	.3642	1515.2	1.928	4.03	14.9
142*	142	15.97	36.058	3.29			007	26.585	15.947	150.6	.3780	1514.0	2.123	.00	.0

SHIP AN CRUISE 056 STATION 1668 DATE 16-III -70 GMT 22:1 LATITUDE 11 13:0 N LONGITUDE 61 56:0 W DEPTH 155

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.70	33.052	4.71			016	21.370	26.700	643.5	.0000	1536.6	.000	3.18	18.9
8	7	26.69	33.071	4.72			016	21.387	26.688	642.1	.0450	1536.7	.021	28.99	2.1
16	16	26.52	35.833	4.38			005	23.523	26.516	438.2	.0882	1539.5	.070	9.13	6.6
24	24	26.51	36.108	4.22			004	23.729	26.504	418.8	.1225	1539.9	.140	20.66	2.9
32	32	23.06	36.156	3.51			007	24.812	23.053	315.8	.1519	1532.0	.223	11.83	5.1
40*	40	23.83	36.920	4.13			002	25.165	23.821	282.6	.1760	1534.9	.311	9.68	6.2
48	48	23.29	37.019	4.02			002	25.399	23.280	260.7	.1978	1533.8	.409	7.23	8.3
56*	56	22.81	37.004	3.99			001	25.527	22.798	248.8	.2182	1532.7	.517	9.85	6.1
64	64	21.79	36.941	3.75			002	25.770	21.777	226.0	.2373	1530.2	.634	5.59	10.7
72*	72	21.38	36.889	3.63			002	25.845	21.365	219.1	.2551	1529.2	.758	7.90	7.5
85	88	19.66	36.684				003	26.153	19.643	190.3	.2880	1524.6	1.026	5.74	10.5
120	120	17.06	36.244	3.63			006	26.471	17.039	160.9	.3444	1517.2	1.620	4.81	12.3
136*	136	15.99	36.059	3.15			007	26.581	15.963	150.8	.3695	1514.0	1.948	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1669	17-III -70	14.6	11 12.8 N	60 47.3 W	21

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.91	35.508	4.45				23.150	26.910	473.1	.0000	1539.8	.000	2.28	26.3
5*	6	26.95	35.509	4.58				23.138	26.949	474.5	.0237	1540.0	.009	2.41	24.9
11	11	26.94	35.512	5.16				23.144	26.937	474.1	.0474	1540.0	.029	.97	61.8
16*	16	26.94	35.509	4.70				23.141	26.936	474.6	.0712	1540.1	.062	.00	.0

SHIP AN CRUISE 056 STATION 1670 DATE 17-III -70 GMT 15.6 LATITUDE 11 14.1 N LONGITUDE 60 47.6 W DEPTH 36

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.98	35.524	4.50				23.140	26.980	474.1	.0000	1540.0	.000	2.64	22.7
6*	6	26.95	35.521	4.53				23.147	26.949	473.6	.0237	1540.0	.008	8.43	7.1
11	11	26.89	35.541	4.72				23.257	26.887	463.3	.0472	1540.0	.029	7.91	7.6
16*	16	26.78	35.722	4.63				23.353	26.776	454.4	.0701	1540.0	.061	4.51	13.3
21	21	26.73	35.739	4.56				23.381	26.725	451.8	.0928	1540.0	.103	4.91	12.2
26*	26	26.68	35.764	4.78				23.416	26.674	448.7	.1154	1540.0	.158	8.07	7.4
31	31	26.49	35.817	4.56				23.516	26.482	439.4	.1376	1539.7	.222	14.47	4.1
36*	36	25.92	36.017	4.88				23.846	25.911	408.1	.1588	1538.7	.295	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	C56	1671	17-III -70	18.3	11 12.2 N	60 49.4 W	36

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND. VEL	PθT EN	V FREQ	PERIOD
1	1	27.04	35.477	4.73				23.085	27.040	479.3	.0000	1540.0	.000	2.20	27.2
6*	6	27.03	35.478	4.62				23.089	27.029	479.1	.0240	1540.1	.009	5.35	11.2
11	11	27.01	35.525	4.54				23.131	27.007	475.3	.0479	1540.2	.029	9.70	6.2
16*	16	26.80	35.630	4.58				23.277	26.796	461.6	.0713	1539.9	.062	9.90	6.1
21	21	26.64	35.765	4.67				23.430	26.635	447.2	.0941	1539.8	.105	6.78	8.9
26*	26	26.53	35.811	4.73				23.499	26.524	440.8	.1163	1539.7	.158	3.10	19.4
31	31	26.51	35.818	5.01				23.511	26.502	439.9	.1383	1539.7	.222	9.90	6.1
36*	36	26.21	35.895	4.78				23.663	26.201	425.6	.1600	1539.2	.297	∞	∞

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	C56	1672	17-III-70	19.2	11 11.3 N	60 48.5 W	16

DEPTH	PRESS	TEMP	SAL	σ _t	σ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	27.01	35.542	4.65				23.144	27.010	473.7	.0000	1540.0	.000	-1.46	-41.2
6	6	27.03	35.541	4.64				23.137	27.029	474.6	.0237	1540.2	.009	6.98	8.6
11	11	26.95	35.605	4.57				23.210	26.947	467.8	.0473	1540.1	.029	10.83	5.5
16*	16	26.72	35.751	4.51				23.394	26.716	450.5	.0703	1539.9	.061	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1673 18-III -70 16.9 11 31.0 N 61 57.0 W 541

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.92	35.617	5.09			004	23.229	26.920	465.6	.00002	1539.9	.0002	3.29	18.2
34	34	27.00	35.769	4.75			003	23.318	26.992	458.5	.15262	1540.8	.2712	12.23	4.9
69	69	24.27	36.826	3.92			002	24.962	24.254	303.1	.28622	1536.3	.9272	11.73	5.1
78	78	23.19	36.917	3.77			002	25.351	23.173	266.4	.31192	1533.9	1.119	6.15	9.8
88	88	22.88	36.949	3.69			002	25.465	22.861	255.9	.33812	1533.3	1.342	9.45	6.3
98*	98	21.74	36.888	3.63			002	25.744	21.720	229.8	.36252	1530.6	1.574	9.06	6.6
108	108	20.52	36.782	3.63			002	25.999	20.499	205.8	.38432	1527.4	1.804	7.07	8.5
118*	118	19.61	36.665	3.59			003	26.152	19.588	191.5	.40432	1525.0	2.034	6.05	9.9
127	127	18.892	36.551	3.57			004	26.252	18.866	182.2	.4212	1523.0	2.246	7.15	8.4
137*	137	17.43	36.278	3.18			006	26.408	17.406	167.5	.4388	1518.6	2.483	3.66	16.4
167	167	16.51	36.139	3.12			007	26.522	16.482	157.5	.4877	1516.2	3.245	2.54	23.7
196*	196	15.93	36.024	3.27			006	26.568	15.898	153.9	.5331	1514.8	4.089	3.73	16.1
245	245	13.82	35.672	3.47			009	26.762	13.784	136.3	.6046	1508.4	5.695	3.52	17.0
294*	295	11.54	35.304	3.02			013	26.931	11.501	120.5	.6679	1501.1	7.435	2.50	24.0
343	344	10.43	35.146	2.82			014	27.010	10.388	113.5	.7256	1497.7	9.318	2.27	26.4
392*	393	9.29	34.976	2.93			017	27.072	9.245	107.9	.7802	1494.2	11.375	2.12	28.2
441	443	8.32	34.846	2.85			020	27.124	8.272	103.1	.8323	1491.2	13.599	1.86	32.3
490*	492	7.83	34.803	2.86			021	27.165	7.779	99.7	.8823	1490.0	15.989	1.45	41.3
539*	541	7.56	34.780	3.08			022	27.186	7.505	98.2	.9311	1489.8	18.569	.002	.0

SHIP AN CRUISE 056 STATION 1674 DATE 19-III -70 GMT 16.1 LATITUDE 11 47.0 N LONGITUDE 61 55.0 W DEPTH 304

DEPTH	PRESS	TEMP	SAL	σ _t	σ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	27.08	35.141	4.37			003	22.820	27.080	504.7	.0000	1539.82	.000	3.17	18.9
30	30	26.98	35.193	4.37			003	22.891	26.973	499.1	.1456	1540.12	.230	12.302	4.9
59	59	25.60	36.445	4.20			002	24.268	25.586	368.8	.2717	1538.8	.776	11.26	5.3
89	89	22.86	36.936	3.95			002	25.461	22.841	256.4	.3657	1533.3	1.462	3.16	19.0
98	98	22.78	36.936	3.92			001	25.484	22.759	254.5	.3888	1533.2	1.683	9.76	6.1
108	108	21.51	36.853	3.78			002	25.781	21.488	226.6	.4129	1530.1	1.937	10.99	5.5
118	118	19.44	36.616	3.79			003	26.159	19.418	190.8	.4339	1524.4	2.179	4.81	12.5
128*	128	18.94	36.536	3.80			003	26.227	18.916	184.6	.4527	1523.1	2.416	4.15	14.4
138	138	18.55	36.471	3.39			004	26.277	18.525	180.1	.4711	1522.1	2.666	7.46	8.0
148*	148	17.19	36.254	3.21			005	26.448	17.164	164.1	.4884	1518.0	2.919	3.62	16.6
158	158	16.87	36.202	3.34			005	26.485	16.843	160.8	.5047	1517.2	3.175	2.69	22.3
167*	167	16.61	36.143	3.58			005	26.501	16.582	159.5	.5192	1516.5	3.416	3.19	18.8
177	177	16.38	36.109	3.20			006	26.529	16.350	157.1	.5351	1515.9	3.696	2.50	24.0
197*	197	16.11	36.068	3.13			006	26.561	16.077	154.7	.5664	1515.4	4.297	4.11	14.6
222	222	14.62	35.790	3.14			007	26.682	14.586	143.5	.6039	1510.8	5.101	3.37	17.8
246*	246	13.72	35.639	3.24			009	26.757	13.684	136.7	.6377	1508.1	5.911	1.28	47.0
271	272	13.66	35.629	3.02			009	26.762	13.620	136.9	.6721	1508.3	6.824	3.58	16.8
296*	297	12.525	35.446	3.18			010	26.851	12.484	128.7	.7055	1504.7	7.794	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1675 19-III -707 17.9 11 43.0 N 61 57.0 W 746

DEPTH	PRESS	TEMP	SAL	OX	PO4	PH6S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.36	34.976	4.69			003	22.606	27.360	525.1	.00007	1540.2	.000	9.64	6.2
34	34	27.02	36.095	4.54			002	23.557	27.012	435.7	.1587	1541.2	.259	11.57	5.2
68	68	24.14	36.804	3.66			002	24.985	24.125	300.9	.2842	1535.9	.874	6.93	8.7
78	78	23.91	36.907	3.69			002	25.131	23.893	287.4	.3137	1535.7	1.095	12.00	5.77
88	88	22.53	36.972	3.85			002	25.583	22.511	244.7	.3404	1532.5	1.320	8.07	7.4
98	98	21.59	36.887	3.80			002	25.785	21.570	225.8	.3640	1530.2	1.545	7.10	8.4
107	107	20.55	36.694	3.41			003	25.924	20.529	212.9	.3838	1527.4	1.753	6.41	9.77
117*	117	19.94	36.644	3.76			003	26.049	19.917	201.3	.4046	1525.8	1.991	6.19	9.7
127	127	19.22	36.549	3.29			003	26.165	19.196	190.5	.4243	1523.9	2.237	5.57	10.8
137*	137	18.52	36.436	3.42			004	26.258	18.495	181.9	.4430	1521.9	2.490	5.20	11.5
166	166	16.57	36.1197	3.57			006	26.492	16.542	160.3	.4928	1516.3	3.259	4.08	14.7
195*	195	14.67	35.737	3.39			007	26.630	14.640	147.6	.5377	1510.4	4.087	3.35	17.9
244	244	13.25	35.549	3.06			009	26.785	13.215	133.8	.6070	1506.4	5.640	2.59	23.1
292*	293	12.11	35.364	2.91			011	26.869	12.070	126.7	.6699	1503.1	7.365	2.73	22.0
341	342	10.60	35.125	2.91			014	26.967	10.557	118.0	.7302	1498.3	9.319	2.72	22.0
390*	391	9.47	34.993	2.85			016	27.060	9.395	109.1	.7862	1494.7	11.415	2.13	28.1
439	441	8.52	34.872	3.09			019	27.114	8.472	104.2	.8388	1491.9	13.652	1.71	35.2
488	490	8.09	34.829	2.95			020	27.146	8.038	101.7	.8896	1491.0	16.069	1.36	44.2
533*	535	7.74	34.781	3.24			021	27.161	7.584	100.7	.9355	1490.4	18.474	1.73	34.7
583	586	7.32	34.747	2.92			023	27.195	7.261	97.8	.9855	1489.5	21.339	2.22	27.1
633*	636	6.54	34.666	3.29			025	27.255	6.479	91.9	1.0333	1487.2	24.322	2.14	28.1
683	686	5.93	34.657	3.28			028	27.312	5.868	86.4	1.0782	1485.6	27.357	2.32	25.9
733*	737	5.54	34.688	3.39			029	27.385	5.475	79.5	1.1200	1484.9	30.398	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1676 19-III -70 21.1 11 38.0 N 61 57.0 W 680

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	27.51	35.071	4.58			003	22.629	27.510	522.9	.00000	1540.6	.000	9.39	6.4
34	34	27.07	36.080	4.75			002	23.529	27.062	438.3	.1587	1541.3	.2610	13.49	4.4
69	69	22.25	36.804	3.80			003	25.536	22.236	248.4	.27920	1531.3	.836	4.06	14.8
79	79	22.11	36.813	4.07			003	25.582	22.093	244.4	.3039	1531.1	1.023	9.78	6.1
89	89	20.91	36.767	3.42			003	25.881	20.892	216.3	.3271	1528.1	1.222	8.76	6.8
98	98	19.69	36.619	3.24			003	26.096	19.671	196.1	.3457	1524.8	1.400	5.17	11.6
108	108	19.03	36.515	3.37			004	26.175	19.060	188.8	.3650	1523.1	1.603	3.07	19.5
118*	118	18.92	36.494	3.30			004	26.201	18.898	186.8	.3839	1522.8	1.822	3.58	16.8
128	128	18.69	36.464	3.31			004	26.236	18.666	183.7	.4025	1522.3	2.056	6.83	8.8
138*	138	17.79	36.356	3.38			004	26.379	17.766	170.3	.4203	1519.8	2.299	4.50	13.3
167	167	15.88	35.986	3.18			006	26.551	15.853	154.6	.4676	1514.1	3.035	3.73	16.1
197*	197	14.28	35.678	3.63			008	26.669	14.250	143.9	.5126	1509.1	3.873	2.84	21.1
246	246	13.39	35.575	3.19			009	26.776	13.354	134.8	.5813	1506.9	5.428	2.67	22.5
296*	297	12.32	35.419	2.94			011	26.870	12.279	126.7	.6470	1503.9	7.251	3.22	18.7
345	346	10.38	35.132	2.93			015	27.008	10.337	113.8	.7063	1497.6	9.193	2.21	27.2
394*	395	9.29	34.968	2.85			017	27.066	9.245	108.6	.7611	1494.2	11.270	2.12	28.3
443	445	8.46	34.867	2.85			019	27.119	8.412	103.8	.8135	1491.8	13.518	1.79	33.5
492*	494	8.00	34.824	2.97			021	27.156	7.948	100.7	.8639	1490.8	15.939	.91	65.6
532*	534	7.89	34.806	3.15			023	27.158	7.834	101.1	.9046	1491.0	18.079	1.88	31.7
580	583	7.30	34.746	3.04			021	27.197	7.241	97.5	.9526	1489.4	20.821	1.78	33.6
623*	632	6.79	34.700	2.96			025	27.232	6.729	94.3	1.0000	1488.2	23.762	2.32	25.9
677*	680	6.06	34.659	3.08			028	27.297	5.998	87.9	1.0441	1486.0	26.718	.00	.0

SHIP AN CRUISE 056 STATION 1677 DATE 20-III -70 GMT .7 LATITUDE 11 33.0 N LONGITUDE 61 57.0 W DEPTH 547

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.04	35.269	4.75			004	22.929	27.040	494.3	.0000	1539.8	.000	11.77	5.1
34	34	25.09	36.360	4.29			003	24.361	25.082	358.9	.1410	1537.10	.215	11.36	5.3
69	69	21.33	36.784	3.58			003	25.779	21.316	225.3	.2435	1528.9	.7140	7.02	8.5
79	79	20.58	36.713	3.43			003	25.930	20.564	211.2	.2654	1527.0	.879	2.80	21.4
89	89	20.49	36.707	3.34			003	25.950	20.472	209.7	.2865	1526.90	1.061	3.33	18.0
92	92	20.39	36.707	3.47			003	25.977	20.371	207.5	.3054	1526.8	1.242	5.54	10.8
108	108	19.99	36.688	3.57			003	26.069	19.969	199.0	.3258	1525.9	1.457	6.95	8.6
118*	118	18.96	36.529	3.58			004	26.217	18.938	185.2	.3451	1523.0	1.680	6.51	9.2
128	128	17.90	36.348	3.24			005	26.346	17.877	173.2	.3631	1519.9	1.907	4.83	12.4
138*	138	17.31	36.250	3.35			005	26.416	17.286	166.8	.3802	1518.2	2.140	3.82	15.7
148	148	16.86	36.163	3.24			006	26.457	16.835	163.1	.3968	1517.0	2.383	3.81	15.8
172*	172	16.02	36.036	3.23			006	26.557	15.992	154.2	.4350	1514.6	3.010	3.18	18.9
182	182	15.38	35.907	3.24			007	26.603	15.350	150.2	.4610	1512.8	3.491	2.88	20.8
236*	236	13.89	35.620	3.41			009	26.707	13.855	141.3	.5299	1508.4	4.987	3.01	20.0
284	284	12.98	35.532	3.09			010	26.827	12.940	130.9	.5956	1506.1	6.734	2.98	20.2
331			35.185	2.96			014								
373	373	9.84	35.064	3.24			016	27.048	9.795	110.3	.7096	1496.1	10.563	1.74	34.4
426*	428	9.08	34.941	3.21			018	27.079	9.031	107.8	.7623	1493.9	12.736	2.36	25.4
473*	475	8.08	34.824	2.94			021	27.144	8.030	101.6	.8118	1490.7	15.021	1.78	33.6
520	522	7.65	34.787	2.92			022	27.179	7.596	98.7	.8592	1489.8	17.438	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1678 19-III -70 4:1 11 28.0 N 61 56.0 W 406

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.82	35.625	4.60			004	23.267	26.820	462.0	0000	1539.7	0000	12.39	4.8
34	34	23.90	36.545	3.99			004	24.860	23.892	311.4	1278	1534.5	0187	9.93	6.0
67	67	20.89	36.756	3.98			004	25.878	20.877	215.7	2151	1527.7	0612	3.37	17.8
77	77	20.78	36.757	3.43			003	25.909	20.765	213.1	2366	1527.5	0771	6.78	8.8
86	86	20.29	36.750	3.50			003	26.036	20.273	201.4	2553	1526.4	0927	8.59	7.0
96	96	19.07	36.630	3.46			004	26.266	19.052	179.8	2745	1523.1	10105	7.89	67.2
106	106	18.77	36.519	3.69			004	26.258	18.750	180.9	2926	1522.2	10292	6.89	8.7
115	115	17.97	36.427	3.86			005	26.389	17.949	168.6	3084	1520.0	10471	4.91	12.2
125	125	17.41	36.341	3.47			005	26.461	17.388	162.1	3250	1518.4	10675	3.17	16.9
134	134	17.03	36.253	3.19			006	26.485	17.007	160.0	3396	1517.3	10869	4.09	14.7
168	168	15.79	36.090	3.65			007	26.651	15.763	145.1	3917	1513.9	20672	3.63	16.5
192	192	14.85	35.932	3.30				26.741	14.820	137.1	4257	1511.2	30300	3.50	17.1
216	216	13.98	35.796	3.48			008	26.824	13.948	129.7	4579	1508.6	30972	.25	235.5
240	241	13.35	35.613	3.18			009	26.814	13.315	131.0	4894	1506.7	40709	2.77	21.6
288	289	12.27	35.461	3.53			012	26.913	12.230	122.5	5506	1503.7	60363	3.40	17.6
336	337	10.850	35.319	2.92			013	27.070	10.807	108.1	6062	1499.3	80137	.29	207.7
384	385	10.020	35.110	3.15			015	27.053	9.974	110.1	6589	1496.9	100087	000	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1679	20-III -70	6.3	11 24.0 N	61 55.0 W	161

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.52	35.603	4.61			004	23.346	26.520	454.4	.0000	1539.0	.000	11.91	5.0
33	33	24.07	36.493	4.07			003	24.770	24.063	319.9	.1241	1534.8	.181	10.32	5.8
66	66	21.14	36.836	4.08			003	25.871	21.127	216.4	.2129	1528.4	.602	7.10	8.5
76	76	20.25	36.722	3.52			003	26.026	20.235	202.0	.2339	1526.1	.755	5.91	10.2
86	86	19.43	36.576	3.56			004	26.131	19.414	192.3	.2537	1523.8	.919	6.40	9.4
95*	95	18.79	36.507	3.46			004	26.244	18.772	181.8	.2706	1522.1	1.075	7.38	8.1
104	104	17.57	36.305	3.16			006	26.394	17.552	167.7	.2864	1518.5	1.236	3.96	15.2
114*	114	17.22	36.253	4.64			006	26.440	17.200	163.7	.3030	1517.6	1.422	3.68	16.3
124	124	16.83	36.181	3.40			006	26.478	16.809	160.3	.3193	1516.5	1.621	4.08	14.7
133*	133	16.49	36.133	3.06			006	26.522	16.468	156.4	.3336	1515.6	1.809	3.15	19.0
152	152	16.01	36.055	3.11			007	26.574	15.985	152.0	.3631	1514.3	2.239	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1630 20-III 70 8.2 11 18.0 N 61 55.0 W 153

DEPTH	PRESS	TEMP	SAL	EX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.23	33.815	4.88			012	22.091	26.230	574.4	.0000	1536.4	.0002	23.36	2.6
9	9	26.25	35.662	4.54			005	23.475	26.248	442.4	.0407	1538.6	.0192	5.11	11.8
19	19	26.09	35.696	4.31			005	23.551	26.085	435.6	.0847	1538.4	.0812	21.00	2.9
28	28	22.182	36.590	4.09			003	24.811	24.174	315.8	.11852	1535.1	.160	12.84	4.7
38*	38	23.18	36.886	3.97				25.330	23.172	266.8	.14772	1533.2	.258	10.19	5.9
48	48	22.04	36.883	3.97			002	25.655	22.030	236.2	.17302	1530.5	.368	5.56	10.8
67*	67	21.37	36.868	3.87			002	25.831	21.356	220.2	.21652	1529.1	.623	8.21	7.3
87	87	18.73	36.494	3.41			005	26.2249	18.714	181.0	.25682	1521.8	.937	5.06	11.9
106*	106	17.53	36.292	3.02			005	26.394	17.511	167.8	.29012	1518.4	1.265	4.97	12.1
116	116	17.01	36.224	3.24			006	26.468	16.990	161.0	.30662	1517.0	1.453	4.30	14.0
126*	126	16.56	36.155	3.22			006	26.522	16.539	156.2	.32252	1515.7	1.651	.95	63.0
136	136	16.50	36.135	3.34			006	26.521	16.477	156.6	.33822	1515.6	1.862	3.09	19.4
145*	145	16.35	36.120	3.25			007	26.545	16.326	154.6	.3523	1515.3	2.065	.002	.0

SHIP AN	CRUISE 056	STATION 1679	DATE 20-III -70	GMT 6.3	LATITUDE 11 24.0 N	LONGITUDE 61 55.0 W	DEPTH 161
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DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.52	35.603	4.613			004	23.346	26.520	454.4	.0000	1539.0	.000	11.913	5.0
33	33	24.07	36.493	4.07			003	24.770	24.063	319.9	.1241	1534.8	.181	10.32	5.8
66	66	21.14	36.836	4.08			003	25.871	21.127	216.4	.2129	1528.4	.6023	7.10	8.5
76	76	20.25	36.722	3.52			003	26.026	20.235	202.0	.2339	1526.1	.755	5.91	10.2
86	86	19.43	36.576	3.56			004	26.131	19.414	192.3	.2537	1523.8	.9193	6.40	9.33
95*	95	18.79	36.507	3.46			004	26.244	18.772	181.8	.2706	1522.1	1.075	7.38	8.1
104	104	17.57	36.305	3.16			006	26.394	17.552	167.7	.2864	1518.5	1.236	3.96	15.2
114*	114	17.22	36.253	4.64			006	26.440	17.200	163.7	.3030	1517.6	1.422	3.68	16.3
124	124	16.83	36.181	3.40			006	26.478	16.809	160.3	.3193	1516.5	1.621	4.08	14.7
133*	133	16.49	36.133	3.06			006	26.522	16.468	156.4	.3336	1515.6	1.809	3.15	19.0
152	152	16.01	36.055	3.11			007	26.574	15.985	152.0	.3631	1514.3	2.239	.00	.0

SHIP AN CRUISE 056 STATION 1680 DATE 20-III-70 GMT 8.2 LATITUDE 11 18.0 N LONGITUDE 61 55.0 W DEPTH 153

DEPTH	PRESS	TEMP	SAL	BX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.23	33.815	4.88			012	22.091	26.230	574.4	.0000	1536.4	.000	23.36	2.6
9	9	26.25	35.662	4.54			005	23.475	26.248	442.4	.0407	1538.6	.019	5.11	11.8
19	19	26.09	35.696	4.31			005	23.551	26.085	435.6	.0847	1538.4	.081	21.00	2.9
28	28	24.18	36.590	4.09			003	24.811	24.174	315.8	.1185	1535.1	.160	12.84	4.7
38*	38	23.18	36.886	3.97				25.330	23.172	266.8	.1477	1533.2	.258	10.19	5.9
48	48	22.04	36.883	3.97			002	25.655	22.030	236.2	.1730	1530.5	.368	5.56	10.8
67*	67	21.37	36.868	3.87			002	25.831	21.354	220.2	.2165	1529.1	.623	8.21	7.3
87	87	18.73	36.494	3.41			005	26.249	18.714	181.0	.2568	1521.8	.937	5.06	11.9
106*	106	17.53	36.292	3.02			005	26.394	17.511	167.8	.2901	1518.4	1.265	4.97	12.1
116	116	17.01	36.224	3.24			006	26.468	16.990	161.0	.3066	1517.0	1.453	4.30	14.0
126*	126	16.56	36.155	3.22			006	26.522	16.539	156.2	.3225	1515.7	1.651	.95	63.0
136	136	16.50	36.135	3.34			006	26.521	16.477	156.6	.3382	1515.6	1.862	3.09	19.4
145*	145	16.35	36.120	3.25			007	26.545	16.326	154.6	.3523	1515.3	2.065	.00	.0

SHIP AN CRUISE 056 STATION 1681 DATE 20-111 -702 GMT 9.8 LATITUDE 11 14.0 N LONGITUDE 61 56.0 W DEPTH 153

		TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1		26.75	32.609	4.94			017	21.021	26.750	676.9	.00002	1536.2	.000	8.78	6.8
9	90	26.45	35.304	4.60			006	23.142	26.428	477.5	.5137	1540.0	1.986	-5.64	10.6
19	18	25.65	35.995	4.43			004	23.913	25.646	401.0	.20142	1537.8	.149	18.37	3.3
28	27	28.42	36.772	3.97			003	24.876	24.414	309.6	.23342	1535.9	.2232	9.85	6.1
32*	37	23.69	36.884	3.75			003	25.179	23.682	281.2	.26312	1534.4	.3222	9.99	6.0
47	46	22.15	36.666	3.46			004	25.459	22.140	254.8	.2873	1530.5	.4272	8.50	7.1
56*	56	22.13	36.925	3.89			002	25.662	22.118	235.9	.30942	1530.9	.5432	9.29	6.5
66	66	20.41	36.654	3.33			004	25.2931	20.397	210.6	.33182	1526.3	.6822	8.44	7.1
75*	75	19.68	36.661	3.46			003	26.131	19.666	192.0	.35002	1524.4	.8132	5.22	11.5
85	85	19.16	36.590	3.35			004	26.212	19.144	184.5	.36892	1523.1	.9682	25.432	11.1
103*	103	17.81	36.352	3.37			005	26.371	17.792	169.9	.40102	1519.2	1.275	5.13	11.7
122	122	16.56	36.154	3.29			006	26.521	16.540	156.1	.43212	1515.6	1.632	2.47	24.3
141*	141	16.27	36.103	3.13			007	26.550	16.247	153.9	.46172	1515.0	2.031	.00	.0

SHIP AN CRUISE 056 STATION 1682 DATE 20-III -70 GMT 11.3 LATITUDE 11 9.0 N LONGITUDE 61 56.0 W DEPTH 153

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.44	32.797	4.60			016	21.260	26.440	654.0	.0000	1535.7	.000	21.84	2.7
18	18	25.67	35.893	4.34			006	23.830	25.666	408.9	.0904	1537.7	.070	16.72	3.6
27	27	23.99	36.272	3.94			005	24.627	23.984	333.3	.1238	1534.3	.145	12.41	4.8
36	36	23.32	36.588	3.83			004	25.064	23.312	292.1	.1521	1533.2	.235	13.41	4.5
45*	45	22.35	36.892	4.48			002	25.574	22.341	243.8	.1762	1531.2	.335	7.56	7.9
54	54	21.84	36.911	3.94			002	25.733	21.829	229.1	.1976	1530.1	.443	6.81	8.8
63*	63	21.30	36.881	3.76			003	25.861	21.287	217.2	.2178	1528.8	.563	5.28	11.4
72	72	20.95	36.853	3.77			002	25.936	20.936	210.4	.2371	1528.0	.697	6.01	10.0
81*	81	20.45	36.804	3.78			003	26.034	20.434	201.4	.2557	1526.8	.842	8.07	7.4
90	90	19.16	36.595	3.74			004	26.216	19.143	184.4	.2731	1523.2	.995	6.18	9.7
99*	99	18.44	36.491	4.03				26.320	18.422	174.7	.2893	1521.2	1.152	5.38	11.2
117	117	16.99	36.229	3.37			005	26.477	16.970	160.2	.3196	1516.9	1.486	2.59	23.2
135*	135	16.71	36.182	3.19			006	26.507	16.687	157.9	.3484	1516.3	1.857	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1683 22-III -70 4.6 13 25.0 N 61 1.0 W 935

DEPTH	PRESS	TEMP	SAL	OX	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.03	34.390	4.54			004	22.271	27.030	557.2	.0000	1538.8	.0003	8.38	7.2
29	29	26.99	35.177	4.73			003	22.875	26.983	500.5	.1481	1540.1	.216	7.67	7.8
58	58	27.21	35.965	4.84			003	23.398	27.196	451.8	.2864	1541.9	.8213	10.64	5.6
88	88	25.52	36.663	4.02			003	24.458	25.499	352.0	.4072	1539.3	1.700	8.90	6.7
98	98	25.11	36.821	4.46			001	24.704	25.087	329.0	.4413	1538.7	2.0243	8.07	7.4
107*	107	24.23	36.726	4.45			002	24.884	24.256	312.1	.4703	1536.8	2.328	13.84	4.3
117	117	22.78	36.940	4.40			002	25.487	22.755	255.0	.4987	1533.6	2.6533	4.19	14.3
127*	127	22.29	36.820	4.20			002	25.537	22.263	250.6	.5241	1532.4	2.9693	12.00	5.0
135	135	21.04	36.896	4.16			002	25.944	21.013	212.1	.5450	1529.4	3.2503	8.33	7.2
145*	145	20.05	36.826	4.08			005	26.158	20.022	192.0	.5653	1526.8	3.543	6.26	9.6
155	155	18.81	36.556	4.25			004	26.276	18.781	181.0	.5840	1523.2	3.8323	6.61	9.1
166*	166	17.48	36.294	4.21			005	26.408	17.451	168.5	.6016	1519.2	4.1223	6.14	9.8
176	176	16.46	36.124	3.82			006	26.522	16.431	157.8	.6180	1516.2	4.4093	3.72	16.1
195*	195	15.14	35.826	3.41			008	26.595	15.109	151.1	.6475	1512.0	4.9693	3.71	16.2
219	219	13.44	35.472	4.23			009	26.686	13.408	142.5	.6829	1506.5	5.7193	4.88	12.3
244				3.21			009								
268	268	11.57	35.450	3.15			011	27.039	11.535	109.8	.7451	1500.9	7.252	3.79	15.8
292*	293	11.43	35.265	3.70			012	26.921	11.392	121.3	.77303	1500.6	8.055	2.10	28.3
339*	340	10.70	35.158	3.55			015	26.971	10.657	117.3	.8294	1498.7	9.879	2.60	23.1
387	388	9.89	35.088	3.43			016	27.059	9.844	109.6	.8842	1496.4	11.916	2.14	28.0
435			35.000	3.05			017								
484	486	8.02	34.839	3.08			020	27.165	7.969	99.8	.9864	1490.7	16.464	1.87	32.1
532*	534	7.36	34.764	3.42			023	27.203	7.306	96.3	1.0338	1488.9	18.936	2.07	28.9
580	583	7.01	34.770	3.30			024	27.257	6.953	91.6	1.0792	1488.3	21.523	1.87	32.1
629*	632	6.33	34.701	3.73			027	27.295	6.271	87.8	1.1235	1486.3	24.277	1.95	30.7
677	680	5.76	34.663	3.32			031	27.338	5.699	83.6	1.1650	1484.8	27.058	1.19	50.3
726*	730	5.76	34.683	3.18			029	27.354	5.694	82.7	1.2061	1485.6	30.021	2.43	24.7
822*	827	5.23	34.303	3.68			029	27.513	5.159	68.1	1.2791	1485.2	35.798	2.97	20.2
891*	896	4.67	34.944					27.690	4.596	51.3	1.3207	1484.3	39.438	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1684 23-III -70 17.7 13 27.0 N 61 8.0 W 1765

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.18	33.987	4.61			004	21.920	27.180	590.8	.0000	1538.7	.000	10.25	5.9
37	37	27.00	35.475	4.54			003	23.096	26.991	479.7	.1928	1540.50	.338	13.280	4.5
67	67	23.67	36.326	3.95			003	24.762	23.655	322.0	.3133	1534.2	.942	12.23	4.9
76	76	23.00	36.527	3.73			003	25.126	22.984	282.0	.3405	1533.1	1.141	9.33	6.4
86	86	22.20	36.582	3.75			002	25.457	22.182	256.5	.3675	1531.3	1.364	8.72	6.9
96*	96	21.19	36.521	3.57			003	25.693	21.171	234.4	.3922	1528.8	1.593	8.13	7.4
105	105	20.93	36.770	3.82			002	25.878	20.909	217.2	.4126	1528.4	1.803	6.01	10.0
115*	115	20.37	36.714	3.56			003	25.987	20.347	207.1	.4339	1527.0	2.043	5.09	11.8
124	124	20.17	36.735	4.24			003	26.057	20.146	200.8	.4523	1526.7	2.268	6.34	9.5
134	134	19.52	36.670	3.77			003	26.179	19.495	189.5	.4719	1525.0	2.527	5.73	10.5
162	162	16.93	36.182	3.46			005	26.455	16.902	163.8	.5216	1517.4	3.276	4.09	14.7
191	191	15.08	35.507	3.28			007	26.593	15.050	151.1	.5675	1511.8	4.103	3.96	15.2
239	239	12.34	35.344	3.17			011	26.808	12.307	131.1	.6356	1503.0	5.593	2.96	20.3
286*	287	11.51	35.287	3.35			013	26.923	11.472	121.0	.6952	1500.8	7.193	3.15	19.0
334	335	9.70	35.040	2.90			017	27.053	9.661	103.8	.7507	1494.8	8.951	1.87	32.1
382*	383	9.26	34.993	3.57			018	27.094	9.216	105.6	.8024	1493.9	10.853	1.29	46.7
430	432	9.05	34.972	2.97			019	27.1080	9.001	105.1	.8534	1493.9	12.975	1.06	56.6
478*	480	8.835	34.943	3.17			019	27.114	8.841	105.3	.9042	1494.1	15.347	1.80	33.4
534*	536	8.33	34.887	2.95			020	27.155	8.202	101.9	.9627	1492.8	18.383	1.97	30.5
583	586	7.38	34.758	3.56			023	27.195	7.321	97.9	1.0120	1489.8	21.211	1.76	34.1
632*	635	7.14	34.762	3.47			024	27.232	7.077	94.9	1.0596	1489.7	24.181	.46	129.8
680	683	7.19	34.766	3.00			024	27.229	7.121	96.1	1.1058	1490.6	27.296	3.50	17.1
778*	782	5.03	34.737	3.92			030	27.564	4.964	62.5	1.1841	1483.7	33.084	1.54	39.0
875	880	4.90	34.793	4.23			029	27.623	4.826	57.8	1.2430	1484.9	33.076	1.34	44.8
972*	978	4.73	34.719	4.34			030	27.663	4.648	54.8	1.2981	1485.8	43.305	1.10	54.3
1070	1077	4.57	34.924	4.40			030	27.685	4.480	53.4	1.3516	1486.8	48.926	1.20	50.1
1265*	1274	4.260	34.952	4.62			032	27.742	4.155	49.3	1.4528	1488.8	61.048	.91	65.7
1460	1471	4.135	34.963	4.76			033	27.764	4.013	48.7	1.5494	1491.6	74.611	.74	81.2
1655*	1669	4.110	34.967	4.79			034	27.770	3.970	49.9	1.6468	1494.7	90.251	.00	.0

SHIP AN CRUISE 056 STATION 1685 DATE 23-III -70 GMT 20.2 LATITUDE 13 30.0 N LONGITUDE 61 4.0 W DEPTH 549

DEPTH	PRESS	TEMP	SAL	EX	P04	PH08	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.10	34.182	4.90			003	22.092	27.100	574.3	.0000	1538.8	.000	10.97	5.5
33	33	27.10	35.814	5.30			002	23.294	27.172	460.7	.1657	1541.2	.258	9.93	6.0
66	66	25.07	36.279	4.34			003	24.3063	25.055	365.4	.3023	1537.5	.924	7.46	8.0
75	75	24.74	36.349	3.69			002	24.460	24.723	351.2	.3346	1537.0	1.157	5.44	11.0
85	85	24.29	36.285	4.22			002	24.547	24.271	343.2	.3694	1536.0	1.441	6.29	9.5
94*	94	23.96	36.297	4.17			002	24.655	23.939	333.3	.3999	1535.3	1.721	11.25	5.3
103	103	24.02	36.794	4.14			002	25.013	23.997	299.6	.4285	1536.2	2.008	4.63	13.0
113*	113	23.99	36.864	4.02			002	25.075	23.965	294.2	.4583	1536.4	2.338	9.43	6.4
122	122	23.58	37.033	4.06			001	25.324	23.553	270.8	.4838	1535.7	2.644	8.91	6.7
132*	132	22.33	36.8793	3.82			002	25.570	22.302	247.7	.5098	1532.6	2.982	7.51	8.0
160	160	20.46	36.8363	3.77			002	26.056	20.428	202.3	.5731	1528.1	3.919	8.35	7.2
188*	188	15.40	35.9783	3.82			007	26.654	15.370	145.4	.6220	1512.9	4.780	2.87	20.9
235	235	14.05	35.7303	3.73			008	26.756	14.025	136.7	.6886	1509.1	6.221	2.50	24.03
282*	283	13.15	35.5823	3.23			009	26.831	13.109	130.5	.7518	1506.7	7.891	2.53	23.7
329	330	12.22	35.4433	3.45			011	26.909	12.175	123.9	.8119	1504.2	9.773	2.28	26.3
376*	377	11.90	35.4453	3.12			011	26.972	11.849	118.9	.8694	1503.8	11.848	1.71	35.2
423	424	11.39	35.3563	2.97			012	26.999	11.334	117.2	.9252	1502.7	14.138	1.70	35.4
470*	472	10.93	35.2823	3.06			014	27.026	10.870	115.3	.9802	1501.8	16.659	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1686 23-III -70 21.9 13 36.0 N1 61 0 W 539

DEPTH	PRESS	TEMP	SAL	OX	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.11	34.785	4.67			003	22.542	27.110	531.2	.0000	1539.4	.0001	8.45	7.1
34	34	27.18	35.780	4.72			002	23.268	27.172	463.2	.1642	1541.2	.275	8.41	7.1
69	69	26.20	36.378	4.37			002	24.031	26.183	391.9	.3141	1540.3	1.043	5.54	10.8
78	78	26.19	36.482	4.60			002	24.112	26.171	384.5	.3491	1540.5	1.306	9.54	6.3
88	88	25.89	36.732	4.72			001	24.395	25.869	358.0	.3863	1540.3	1.6211	7.92	7.6
98*	98	25.61	36.872	4.51			001	24.588	25.587	340.0	.4213	1540.0	1.9541	10.90	5.5
108	108	24.70	36.994	4.67			001	24.959	24.675	305.0	.4537	1538.1	2.294	8.51	7.0
118*	118	24.09	37.047	4.34			001	25.183	24.064	284.1	.4832	1536.9	2.636	8.91	6.7
127	127	23.44	37.085	4.13			001	25.405	23.412	263.3	.5080	1535.5	2.9461	4.01	15.0
137*	137	23.39	37.125	4.11			001	25.450	23.360	259.4	.5342	1535.6	3.3001	6.87	8.7
167	167	21.31	36.911	4.18			002	25.881	21.276	219.4	.6063	1530.6	4.4141	6.01	10.0
196	196	19.57	36.709	4.12			003	26.196	19.533	190.2	.6660	1526.2	5.5171	3.84	15.6
245	245	18.27	36.539	3.98			003	26.400	18.226	172.2	.7552	1523.1	7.5231	4.91	12.2
294*	295	14.96	35.968	3.46			007	26.744	14.914	139.9	.8321	1513.3	9.629	3.53	17.0
343	344	12.58	35.536	3.39			011	26.910	12.532	124.4	.8972	1505.7	11.748	1.72	34.9
392*	393	11.99	35.424	2.86			012	26.938	11.937	122.6	.9581	1504.4	14.044	2.31	25.9
441	442	10.88	35.2371	2.99			014	27.000	10.824	117.0	1.0172	1501.1	16.567	1.50	40.0
490*	492	10.58	35.1941	2.97			015	27.021	10.518	116.0	1.0747	1500.7	19.314	3.53	17.0
539*	541	8.24	34.9021	2.88			021	27.181	8.182	99.5	1.1279	1492.5	22.114	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1687 25-III -70 1.5 13 21.0 N 60 55.0 W 1108

DEPTH	PRESS	TEMP	SAL	σ _t	Pθ ₄	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	27.30	33.630	4.83			005	21.613	27.300	620.1	.0000	1538.6	.0000	12.45	4.8
34	34	27.12	35.686	4.56			002	23.217	27.112	468.1	.1796	1541.0	.279	8.57	7.0
69	69	26.19	36.346	4.38			002	24.010	26.173	393.9	.3307	1540.2	1.052	12.88	4.7
78	78	24.88	36.430	4.20			002	24.478	24.862	349.5	.3642	1537.4	1.303	7.52	8.0
88	88	24.09	36.344	4.18			002	24.651	24.070	333.4	.3985	1535.6	1.594	8.70	6.9
98	98	24.32	36.746	4.00			002	24.887	24.293	311.5	.4308	1536.8	1.901	9.37	60.4
108	108	24.00	36.981	4.26			002	25.160	23.976	285.8	.4608	1536.5	2.216	11.13	5.4
118*	118	22.50	36.914	4.20			002	25.548	22.475	249.2	.4876	1532.8	2.526	8.16	7.4
127	127	21.078	36.889	3.87			002	25.733	21.754	231.9	.5094	1531.1	2.798	7.12	8.4
137			36.8950	3.98			002								
167	167	18.73	36.6330	3.89			002	26.355	18.699	173.8	.5909	1523.3	4.002	5.33	11.3
196*	196	16.40	36.207	3.41			005	26.600	16.367	151.1	.6382	1516.4	4.878	3.96	15.1
245	245	12.99	35.5200	3.29			010	26.815	12.955	130.9	.7077	1505.5	6.436	2.93	20.5
294*	295	11.49	35.2890	3.35			012	26.929	11.451	120.7	.7697	1500.9	8.144	2.67	22.5
343	344	10.09	35.082	2.81			015	27.020	10.048	112.4	.8272	1496.4	10.017	2.05	29.2
392*	393	9.45	35.0080	2.92			017	27.070	9.404	108.2	.8816	1494.8	12.067	2.01	29.9
441	443	8.39	34.8470	3.00			020	27.114	8.342	104.1	.9339	1491.4	14.304	2.12	28.2
490*	492	8.37	34.8220	3.03			020	27.176	8.317	99.2	.9841	1492.3	16.698	4.37	13.7
482	484	8.45	34.878	3.01			020	27.129	8.397	103.5	.9759	1492.4	16.291	2.03	29.5
531	533	7.92	34.8390	3.19			021	27.180	7.864	99.1	1.0259	1491.1	18.890	2.11	28.4
580*	583	7.17	34.767	2.97			024	27.232	7.1120	94.1	1.0736	1488.9	21.608	1.89	31.7
629	632	6.67	34.7320	3.00			026	27.274	6.6090	90.3	1.1191	1487.7	24.434	2.04	29.5
673*	681	5.98	34.677	3.37			028	27.321	5.9180	85.5	1.1625	1485.7	27.347	2.10	28.5
727	731	5.57	34.6830	3.31			029	27.377	5.505	80.2	1.2035	1484.9	30.301	1.86	32.3
777*	781	5.40	34.7150	3.50			030	27.423	5.332	76.3	1.2429	1485.1	33.349	1.80	33.3
826	831	5.220	34.7400	3.43			030	27.465	5.148	72.6	1.2797	1485.2	36.381	1.68	35.6
876*	881	5.290	34.8020	3.54			028	27.505	5.213	69.6	1.3156	1486.4	39.519	1.84	32.6
975*	981	4.955	34.8630	3.59			029	27.593	4.871	61.8	1.3813	1486.7	45.753	1.09	55.0
10740	1081	4.880	34.881	4.20			029	27.616	4.787	60.6	1.4425	1488.1	52.206	.00	.0

SHIP AN CRUISE 056 STATION 1688 DATE 25-III -70 GMT 3.2 LATITUDE 13 23.0 N LONGITUDE 60 59.0 W DEPTH 910

DEPTH	PRESS	TEMP	SAL	OX	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.30	33.657	4.59			005	21.634	27.300	618.2	.0000	1538.6	.0002	10.74	5.6
35	35	27.19	35.237	4.64			003	22.857	27.181	502.6	.1906	1540.7	.317	8.82	6.8
69	69	27.02	36.251	4.55			002	23.674	27.003	425.9	.3486	1542.0	1.134	8.06	7.4
79	79	26.48	36.287	4.44			002	23.874	26.461	407.3	.3903	1541.0	1.450	15.67	3.8
89	89	24.10	36.343	4.08			004	24.648	24.080	333.8	.4275	1535.7	1.767	4.84	12.4
99	99	23.96	36.378	3.98			003	24.716	23.938	327.7	.4607	1535.5	2.086	11.13	5.4
109	109	24.06	36.932	4.25			002	25.105	24.036	291.1	.4917	1536.6	2.416	10.20	5.9
119	119	23.23	37.037	4.59			002	25.430	23.204	260.6	.5194	1534.8	2.738	12.21	4.9
129	129	21.30	36.930	4.21			002	25.898	21.274	216.3	.5433	1530.0	3.041	9.53	6.3
139*	139	19.94	36.817	3.87			002	26.181	19.913	189.6	.5637	1526.4	3.320	4.97	12.1
168	168	18.42	36.578	3.74			003	26.392	18.389	170.3	.6161	1522.3	4.140	3.64	16.5
198*	198	17.07	36.287	3.29			005	26.502	17.036	160.6	.6660	1518.5	5.073	3.91	15.3
248	248	14.56	35.821	3.14			008	26.719	14.522	140.8	.7418	1511.1	6.793	3.06	19.6
297*	298	12.21	35.350	3.01			011	26.838	12.169	129.7	.8084	1503.5	8.649	2.97	20.2
346	347	11.14	35.243	3.03			013	26.958	11.095	119.0	.8697	1500.4	10.665	2.17	27.7
396*	397	10.20	35.099	3.10			016	27.014	10.152	114.2	.9284	1497.7	12.896	2.00	29.9
446	448	9.43	34.991	3.01			017	27.060	9.378	110.2	.9849	1495.6	15.335	2.18	27.6
495*	4972	8.70	34.913	2.87			019	27.118	8.645	105.1	1.0380	1493.6	17.899	2.89	20.8
484*	4862	9.03	34.950	2.73			018	27.094	8.978	107.5	1.0262	1494.7	17.308	2.90	20.7
532	534	7.41	34.765	2.872			023	27.196	7.356	97.0	1.0757	1489.1	19.880	2.24	26.8
580*	583	6.87	34.748	2.96			025	27.259	6.813	91.2	1.1211	1487.7	22.475	1.63	36.7
629	6322	6.26	34.677	3.08			027	27.285	6.201	88.6	1.1655	1486.0	25.232	1.89	31.7
677*	6802	5.88	34.669	3.18			029	27.328	5.819	84.7	1.2075	1485.3	28.045	1.69	35.4
726	730	5.67	34.680	3.39			029	27.363	5.6052	81.8	1.2486	1485.3	31.009	1.70	35.3
774*	778	5.59	34.714	3.13			029	27.399	5.521	78.8	1.2875	1485.8	34.004	2.26	26.5
822	827	5.31	34.756	3.53			029	27.467	5.238	72.6	1.3241	1485.5	37.008	1.67	35.9
871*	876	5.25	34.793	3.63			029	27.503	5.174	69.7	1.3593	1486.1	40.068	.00	.0

SHIP AN CRUISE 056 STATION 1689 DATE 25-111 -70 GMT 5.1 LATITUDE 13 25.0 N LONGITUDE 61 3.0 W DEPTH 777

DEPTH	PRESS	TEMP	SAL	OX	P04	PH0S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.24	33.622	4.59			004	21.627	27.240	618.9	.0000	1538.5	.0002	11.28	5.3
34	34	27.14	35.323	4.90			003	22.937	27.132	494.8	.1838	1540.6	.2942	8.44	7.1
69	69	26.82	36.208	4.74			002	23.706	26.803	422.9	.3446	1541.5	1.119	8.62	7.0
78	78	26.46	36.330	4.97			003	23.912	26.441	403.6	.3819	1540.9	1.399	15.07	4.0
88	88	24.38	36.428	4.13			002	24.628	24.360	335.6	.4189	1536.4	1.712	5.10	11.8
98*	98	23.86	36.323	3.98			004	24.704	23.833	328.8	.4522	1535.2	2.029	9.75	6.2
108	108	23.97	36.759	4.19			003	25.001	23.946	300.9	.4838	1536.1	2.361	9.06	6.6
118	118	23.33	36.846	3.91			002	25.256	23.304	277.1	.5128	1534.8	2.696	7.71	7.8
127	127	22.80	36.860	4.16			002	25.421	22.773	261.7	.5371	1533.7	3.001	5.60	10.7
137	137	22.18	36.749	4.22			002	25.514	22.151	253.1	.5630	1532.2	3.350	9.00	6.7
167	167	19.15	36.660	3.66			002	26.268	19.119	182.2	.6286	1524.5	4.354	5.99	10.0
196	196	16.23	36.130	3.48			005	26.580	16.197	152.8	.6774	1515.8	5.256	3.71	16.2
245	245	12.13	35.769	3.32			008	26.771	14.093	135.6	.7484	1509.6	6.851	3.04	19.7
294*	295	11.89	35.337	3.00			011	26.890	11.851	124.6	.8125	1502.3	8.617	2.81	21.4
343	344	10.30	35.093	2.87			014	26.992	10.253	115.2	.8716	1497.2	10.542	2.39	25.1
392*	393	9.27	34.960	2.88			017	27.063	9.225	108.8	.9269	1494.1	12.622	2.45	24.5
441	443	8.49	34.900	3.32			020	27.140	8.442	101.8	.9788	1491.9	14.838	2.16	27.8
490*	492	7.80	34.839	3.34			021	27.197	7.749	96.6	1.0277	1490.0	17.174	1.29	46.7
539*	541	7.65	34.831	3.53			022	27.213	7.594	93.8	1.0752	1490.2	19.682	1.14	52.7
583	591	7.52	34.820	3.05			022	27.224	7.459	95.5	1.1224	1490.5	22.415	2.66	22.6
604*	607	7.19	34.797	3.14			024	27.253	7.122	92.6	1.1376	1489.4	23.343	.82	72.9
652	655	6.970	34.757	3.07			024	27.252	6.905	93.1	1.1825	1489.3	26.242	2.61	23.0
701*	704	6.10	34.718	3.20			027	27.338	6.035	84.4	1.2263	1486.6	29.285	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1690 25-III -703 639 13 2830 N 61 830 W 1834

DEPTH	PRESS	TEMP	SAL	BX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27326	33.725	4.75			004	21.698	27.260	612.1	.0000	1538.6	.000	10.97	5.5
33	33	27303	35.227	4.859			003	22.900	27.022	498.3	.1777	1540.3	.2793	10.47	5.7
66	66	26.59	36.538	4.86			002	24.028	26.574	392.1	.3248	1541.3	.9943	14.16	4.2
76	76	24.08	36.350	4.38			003	24.659	24.063	332.2	.3611	1535.4	1.257	11.74	5.1
85*	85	23381	36.759	3.71			002	25.049	23.791	29525	.3895	1535.4	1.489	11.91	5.0
94	94	22.01	36.600	3.73			003	25.449	21.990	257.6	.4144	1530.8	1.717	3.07	19.5
104*	104	22312	36.673	3.81			003	25.473	22.098	255.7	.4402	1531.4	1.978	4.21	14.3
113	113	22.42	36.346	3.84			002	25.519	22.396	25137	.4631	1532.5	22233	3261	16.6
123*	123	22.33	36.859	3.80			002	25.555	22.304	248.7	.4882	1532.4	22536	3.94	15.2
132	1323	22.19	36.858	3.92			002	25.594	22.162	24534	.5105	1532.2	2.828	8.57	7.0
161*	1613	18.96	36.577	3.76			004	26.254	18.930	183.3	.5730	1523.7	3.751	5.24	11.5
189	1893	17.45	36.382	3.46			005	26.483	17.417	162.2	.6216	1519.6	4.619	4.30	14.0
236*	2363	14.17	35.728	3.48			008	26.731	14.134	139.1	.6928	1509.5	6.157	3.72	16.1
284	2853	11.34	35.237	2.98			013	26.916	11.303	121.6	.7557	1500.1	7.825	2.94	20.4
331*	3323	10.04	35.080	3.28			016	27.027	10.000	111.5	.8108	1496.0	9.558	1.38	43.4
378	3793	9.88	35.667	3.79			016	27.044	9.835	110.7	.8633	1496.2	11.469	2.44	24.5
425*	4263	9.11	34.997	3.31			019	27.118	9.061	104.1	.9142	1494.1	13.561	1.19	50.4
472*	4743	8.75	34.934				019	27.126	8.697	103.9	.9634	1493.4	15.829	1.72	35.0
519*	521	8.27	34.877	2.90			020	27.156	8.214	101.5	1.0129	1492.3	183302	1.45	41.4
566	568	8.00	34.850	2.96			021	27.176	7.940	100.1	1.0597	1492.0	20.961	1.06	56.9
614*	617	7.72	34.803	3.14			023	27.181	7.656	100.2	1.1082	1491.7	232898	2.41	24.9
662	665	6.84	34.731	3.53			024	27.250	6.775	93.3	1.1550	1488.9	26.962	3.31	18.1
758*	762	5.09	34.822	3.82			029	27.545	5.025	64.1	1.2311	1483.6	32.452	1.48	40.6
855	860	4.91	34.862	4.03			030	27.598	4.838	60.0	1.2919	1484.5	37.478	1.45	41.4
952*	958	4.75	34.902	4.20			030	27.648	4.670	56.1	1.3487	1485.5	42.749	1.25	47.8
1147	1155	4.43	34.940	4.54			031	27.714	4.334	51.2	1.4543	1487.5	54.111	.96	62.7
1343			34.961	4.68			032								
1539*	1551	4.13	34.966	4.82			033	27.767	4.001	49.2	1.6533	1492.9	81.558	.73	82.3
1734*	1749	4.10	34.967	4.78			033	27.771	3.952	50.5	1.7517	1496.0	98.175	.00	.0

SHIP AN CRUISE 056 STATION 1691 DATE 5-01V -700 GMT .4 LATITUDE 14 17.0 N LONGITUDE 60 54.9 W DEPTH 950

DEPTH	PRESS	TEMP	SAL	EX	P84	PH8S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P8T EN	V FREQ	PERIOD
1	1	27.26	35.554	4.76			002	23.072	27.260	480.5	.00000	1540.6	.0000	1.74	34.5
8	8	27.30	35.555	4.77			002	23.060	27.298	482.0	.03370	1540.8	.0160	2.27	26.4
16	16	27.29	35.560	4.75			002	23.067	27.286	481.6	.07230	1540.9	.0630	1.91	31.4
33	33	27.29	35.569	4.66			002	23.074	27.282	481.7	.15430	1541.2	.268	7.76	7.7
49	49	27.14	35.897	4.66			002	23.369	27.128	454.2	.22920	1541.5	.581	6.48	9.3
66	66	27.01	36.127	4.65			002	23.584	26.994	434.4	.30490	1541.8	1.025	9.78	6.1
83	83	26.61	36.629	5.14			001	24.090	26.590	386.9	.37480	1541.7	1.555	11.08	5.4
126.0	126	21.77	36.895	3.78			002	25.740	21.744	231.2	.5081	1531.1	2.907	6.00	10.0
1690	169	19.71	36.774	3.78			002	26.209	19.678	188.0	.5986	1526.2	4.254	4.51	13.3
213	213	17.88	36.502	3.83			003	26.469	17.842	164.5	.6766	1521.4	5.768	4.16	14.4
257	257	15.89	36.166	3.62			004	26.687	15.848	144.6	.7449	1515.8	7.406	3.02	19.9
348.	349	11.45	35.239	3.04			012	26.897	11.404	125.0	.8683	1501.5	11.194	2.40	25.0
441	443	10.60	35.222	2.93			014	27.039	10.545	113.2	.9798	1500.0	15.682	1.90	31.5
536.	535	9.31	35.035	2.78			017	27.115	9.248	106.9	1.0850	1496.7	20.948	2.22	27.0
633	636	7.26	34.772	2.86			023	27.223	7.196	95.9	1.1841	1490.2	26.872	1.82	33.0
731.	735	6.42	34.721	2.93			026	27.299	6.350	89.1	1.2755	1488.4	33.259	1.85	32.4
828	833	5.50	34.669	3.13			030	27.375	5.426	81.6	1.3590	1486.2	39.932	1.92	31.3
926.0	931	5.35	34.772	3.45			029	27.474	5.268	73.2	1.4355	1487.4	46.816	.00	.0

SHIP AN CRUISE 056 STATION 1692 DATE 5- IV -70 GMT 4.0 LATITUDE 14 21.6 N LONGITUDE 60 52.2 W DEPTH 402

DEPTH	PRESS	TEMP	SAL	σ _t	Pσ ₄	PHσ ₅	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	Pσ _T EN	V. FREQ	PERIOD
1	1	27.21	35.491	4.66			002	23.041	27.210	483.5	.0000	1540.4	.0000	1.51	39.7
10	10	27.24	35.486	4.76			002	23.028	27.238	485.2	.04360	1540.6	.0250	1.97	30.5
20	20	27.23	35.488	4.75			002	23.032	27.225	485.1	.09220	1540.8	.0990	1.75	34.3
39	39	27.22	35.489	4.800			002	23.036	27.210	485.5	.18450	1541.1	.3780	1.530	39.3
59	59	27.24	35.497	4.71			002	23.036	27.225	486.4	.28180	1541.5	.866	13.82	4.3
78*	78	25.64	36.341	4.44			002	24.178	25.622	378.2	.36410	1539.1	1.433	8.250	7.3
98	98	25.15	36.698	4.22			002	24.598	25.127	339.0	.43600	1538.7	2.076	9.200	6.3
137*	1370	22.85	37.147	4.19			001	25.624	22.821	242.8	.5498	1534.3	3.408	6.33	9.5
176	176	20.35	36.851	3.90			002	26.097	20.315	199.0	.63640	1528.1	4.778	6.050	9.9
215*	215	17.31	36.395	3.99			003	26.527	17.273	158.9	.70650	1519.7	6.168	4.98	12.0
255	255	14.17	35.8400	3.79			007	26.817	14.131	131.5	.7649	1509.9	7.564	1.60	37.4
294*	295	13.71	35.736	3.15			008	26.834	13.667	130.8	.81630	1508.9	9.012	3.85	15.6
343	344	11.03	35.319	2.96			013	27.037	10.986	111.4	.8760	1500.1	10.952	1.93	31.1
392*	393	10.11	35.160	2.86			015	27.077	10.062	108.1	.93020	1497.4	12.991	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1693 5- IV -70 5.8 14 17.0 N 60 53.1 W 805

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.20	35.597	4.80			002	23.124	27.200	475.6	.0000	1540.5	.0002	.79	.75.6
10	10	27.22	35.594	5.26			002	23.115	27.218	476.8	.04292	1540.7	.0242	1.16	51.6
19	19	27.22	35.590	4.75			002	23.112	27.215	477.4	.08592	1540.9	.0882	4.26	14.1
39	39	27.21	35.719	4.68			002	23.213	27.200	468.7	.18062	1541.3	.3682	10.62	5.7
58	58	26.72	36.398	5.05			001	23.831	26.706	405.7	.2638	1541.3	.775	10.85	5.5
78	78	24.51	36.464	4.19			002	24.616	24.492	336.4	.33822	1536.6	1.286	10.06	6.0
97	97	23.15	36.725	4.19			002	25.217	23.129	279.9	.39692	1533.9	1.807	6.58	9.1
146	146	21.73	37.042	4.02			001	25.863	21.700	220.3	.52002	1531.5	3.301	5.33	11.3
195	1952	19.17	36.677	3.97			002	26.276	19.133	182.5	.61912	1525.0	5.010	4.43	13.5
244	244	16.65	36.724	4.02			004	26.554	16.609	157.1	.70272	1518.0	6.877	5.09	11.8
292	2932	12.73	35.583	3.15			010	26.916	12.689	122.5	.77022	1505.5	8.711	1.74	34.5
341	342	11.97	35.428	3.02			011	26.945	11.924	120.6	.8301	1503.5	10.656	2.91	20.5
390	391	10.20	35.150	2.87			015	27.054	10.152	110.3	.8870	1497.7	12.787	1.89	31.7
438	440	9.45	35.042	3.02			017	27.092	9.429	107.2	.9396	1495.7	15.018	1.82	33.0
487	489	8.96	34.980	2.83			019	27.129	8.905	104.2	.9917	1494.5	17.494	2.12	28.3
535	538	7.405	34.811	2.91			023	27.233	7.345	94.4	1.0893	1490.0	22.867	1.29	46.5
683	685	7.040	34.784	2.96			024	27.264	6.972	92.6	1.1811	1490.1	28.813	2.58	23.2
720	724	5.455	34.735	3.62			029	27.432	5.386	75.5	1.2642	1485.4	35.013	.00	.0

SHIP AN CRUISE 056 STATION 1694² DATE 5- IV -70 GMT 7.6 LATITUDE 14 15.2 N LONGITUDE 60 54.0 W DEPTH 805

DEPTH	PRESS	TEMP	SAL	σ _t	σ _θ	PH ₀₄	PH ₀₅	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.08	35.531	4.78				002	23.113	27.080	476.6	.00002	1540.2	.000	1.25	47.9
10	10	27.12	35.533	4.73				002	23.102	27.118	478.1	.04302	1540.4	.0242	2.59	23.1
19	19	27.10	35.541	4.73				002	23.114	27.095	477.3	.08602	1540.5	.0882	1.47	40.7
39	39	27.13	35.552	4.68				002	23.113	27.120	478.2	.18172	1540.9	.3722	12.102	5.0
53	53	26.43	36.415	4.59				002	23.986	26.416	395.7	.2649	1540.6	.7772	7.602	7.9
77	77	25.74	36.573	4.48				002	24.322	25.722	364.5	.33722	1539.6	1.274	9.812	6.1
97	97	23.88	36.617	4.12				002	24.920	23.858	308.2	.40472	1535.6	1.869	8.21	7.3
145	145	19.74	36.406	3.51				004	25.920	19.712	214.5	.5306	1525.4	3.374	5.25	11.4
194	194	17.38	36.152	3.30				005	26.324	17.346	177.4	.6271	1519.2	5.027	4.02	14.9
242*	242	15.36	35.976	3.22				007	26.547	15.820	157.3	.7078	1515.2	6.820	3.19	18.8
291	292	14.32	35.707	3.15				008	26.682	14.276	145.4	.7824	1510.8	8.851	3.78	15.9
340*	341	12.14	35.385	3.07				011	26.879	12.094	126.9	.8495	1504.0	11.012	1.99	30.1
389	390	11.41	35.263	2.93				012	26.923	11.359	123.5	.9112	1502.1	13.320	3.21	18.7
433*	440	10.06	35.130	2.84				015	27.052	10.007	110.5	.9689	1497.9	15.762	2.26	26.5
485	490	9.03	34.999	2.87				018	27.124	9.024	104.8	1.0231	1495.0	18.334	2.24	26.8
586*	589	7.14	34.772	2.87				023	27.240	7.081	93.4	1.1209	1488.9	23.702	1.60	37.5
686	689	6.50	34.733	3.01				026	27.297	6.434	88.7	1.2126	1488.0	29.686	1.68	35.6
786*	790	5.78	34.696	3.45				028	27.362	5.709	82.8	1.2991	1486.7	36.214	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1695 5- IV -70 11.6 14 12.6 N 60 53.0 W 690

DEPTH	PRESS	TEMP	SAL	OX	PH4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.06	35.539	5.11			002	23.125	27.060	475.5	.0000	1540.1	.0002	1.14	52.6
29	29	27.09	35.539	4.75			002	23.116	27.083	477.5	.13362	1540.7	.2052	1.79	33.6
59	59	27.08	35.545	4.71			002	23.124	27.065	478.0	.27712	1541.2	.8522	10.37	5.8
88	88	26.28	36.497	4.51			001	24.095	26.259	386.6	.40272	1540.9	1.777	10.83	5.5
117	117	22.44	36.377	3.76			003	25.158	22.415	286.2	.5005	1532.1	2.782	8.83	6.8
137	137	21.13	36.533	3.59			003	25.643	21.102	240.7	.5534	1529.2	3.465	6.86	8.7
157	157	19.19	36.230	3.52			004	25.929	19.161	213.9	.5990	1523.9	4.150	6.82	8.8
176	176	18.76	36.443	3.63			004	26.203	18.728	188.6	.6375	1523.3	4.803	6.31	9.5
196	196	16.82	36.132	3.14			006	26.443	16.787	166.0	.6731	1517.6	5.480	3.45	17.4
245	245	15.52	35.551	3.36			007	26.606	15.481	151.8	.7514	1514.2	7.240	3.32	18.1
295	295	13.91	35.687	3.17			008	26.754	13.866	138.4	.8229	1509.5	9.208	3.03	19.8
343	344	12.60	35.497	3.05			010	26.876	12.552	127.6	.8884	1505.7	11.345	2.71	22.2
392	393	11.27	35.287	2.91			012	26.968	11.219	119.3	.9493	1501.7	13.635	1.38	43.4
441	443	11.24	35.302	2.92			013	26.985	11.182	118.8	1.0080	1502.4	16.145	3.17	19.0
489	491	9.36	35.040	2.92			017	27.110	9.303	106.4	1.0624	1496.1	18.736	2.98	20.1
538	540	7.51	34.813	2.87			022	27.220	7.455	95.0	1.1121	1489.6	21.350	1.13	53.3
587	590	7.33	34.792	2.92			023	27.229	7.270	94.7	1.1589	1489.7	22.0562	2.71	22.1
685	688	5.54	34.732	3.37			028	27.420	5.480	75.7	1.2431	1484.1	29.5092	.00	.0

SHIP AN CRUISE 056 STATION 1696 DATE 7- 1V -70 GMT 4.0 LATITUDE 15 14.0 N LONGITUDE 61 6.5 W DEPTH 993

DEPTH	PRESS	TEMP	SAL	σ _t	ρ ₀₄	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	26.66	35.019	4.74			003	22.862	26.660	500.7	.0000	1538.7	.0000	8.69	6.9
20	20	26.38	35.490	4.84			002	23.305	26.375	459.1	.0913	1538.9	.0940	9.64	6.2
39	39	26.37	36.214	4.77			002	23.853	26.361	407.6	.1737	1540.0	.3380	9.15	6.6
59	59	25.79	36.662	4.68			002	24.373	25.776	358.8	.25060	1539.5	.7190	7.78	7.7
73*	78	25.08	36.839	4.48			001	24.726	25.062	326.0	.31580	1538.4	1.173	7.96	7.5
98	98	24.14	36.878	4.17			001	25.116	24.118	289.6	.37750	1536.6	1.726	7.06	8.5
147*	147	21.32	36.891	3.74			002	25.863	21.290	220.3	.50300	1530.3	3.257	6.28	9.6
196	196	17.76	36.436	3.75			003	26.448	17.725	165.8	.5980	1520.7	4.895	3.69	16.2
245*	245	15.75	36.057	3.55			006	26.635	15.710	149.1	.6756	1515.0	6.638	3.19	18.8
294	295	14.97	36.008	3.68			005	26.773	14.924	137.3	.7461	1513.3	8.582	2.84	21.1
392*	393	11.87	35.442	3.08			011	26.975	11.817	119.0	.87250	1504.0	12.985	2.06	29.2
490	492	10.13	35.153	2.85			015	27.068	10.070	111.1	.98600	1499.1	18.107	2.27	26.4
588*	591	8.11	34.884	2.81			021	27.186	8.047	99.7	1.0901	1492.8	23.842	1.83	32.8
686	689	6.88	34.747	3.39			025	27.257	6.812	93.00	1.1853	1489.5	30.058	1.76	34.1
784*	788	6.09	34.701	3.09			027	27.326	6.017	86.7	1.2741	1487.9	36.752	1.72	34.9
882	887	5.65	34.720	3.31			029	27.397	5.570	80.5	1.3567	1487.8	43.819	2.70	22.2
980*	986	5.015	34.881	4.05			028	27.601	4.930	61.4	1.4269	1487.1	50.493	.00	.0

SHIP AN CRUISE 056 STATION 1697 DATE 7- IV -70 GMT 8.7 LATITUDE 15 13.1 N LONGITUDE 61 2.6 W DEPTH 775

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.48	35.007	4.76			003	22.909	26.480	496.1	.0000	1538.3	.000	6.94	8.6
24	24	26.49	35.458	4.84			002	23.246	26.484	464.9	.1106	1539.2	.137	8.92	6.7
	49	26.34	36.212	4.77			002	23.861	26.328	407.2	.2198	1540.1	.536	5.74	10.4
	33	26.01	36.386	4.78			002	24.096	25.993	385.8	.3152	1539.9	1.128	10.83	5.5
	38	24.03	36.806	3.96			002	25.019	24.008	298.9	.4010	1536.2	1.866	6.53	9.2
122*	122	23.17	36.881	3.82			002	25.329	23.144	270.2	.4695	1534.5	2.634	7.66	7.8
146	146	22.03	37.021	4.08			001	25.763	22.000	229.9	.5298	1532.2	3.455	6.15	9.7
171*	171	20.07	36.688	3.53			003	26.048	20.037	203.4	.5842	1527.1	4.334	7.10	8.5
195	195	17.85	36.425	3.68			004	26.417	17.815	168.7	.6291	1521.0	5.171	4.38	13.7
244*	244	15.17	35.957	3.31			006	26.689	15.131	143.7	.7060	1513.1	6.887	3.11	19.3
293	294	13.95	35.780	3.27			008	26.818	13.906	132.5	.7741	1509.8	8.755	2.94	20.4
342*	343	12.78	35.615	3.20			009	26.931	12.732	122.5	.8369	1506.5	10.796	2.36	25.4
390	391	11.51	35.379	2.93			012	26.995	11.458	116.9	.8947	1502.6	12.965	2.16	27.8
433*	441	10.21	35.141	2.92			015	27.045	10.156	112.3	.9512	1498.5	15.367	2.91	20.6
488	490	8.76	34.971	2.81			019	27.154	8.705	101.7	1.0040	1493.8	17.873	1.73	34.4
586*	589	7.53	34.813	2.87			022	27.217	7.470	96.1	1.1016	1490.5	23.245	2.02	29.7
683	686	6.25	34.707	3.06			027	27.310	6.186	87.1	1.1912	1486.9	29.062	1.25	48.1
732*	736	6.11	34.703	2.60			027	27.325	6.042	86.1	1.2339	1487.2	32.172	.00	.0

SHIP AN CRUISE 056 STATION 1698 DATE 7- IV -70 GMT 10.7 LATITUDE 15 13.6 N LONGITUDE 61 9.4 W DEPTH 1316

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.48	35.127	4.73			003	23.000	26.480	487.5	.0000	1538.4	.000	11.89	5.0
20	20	26.39	36.207	5.31			002	23.842	26.385	407.9	.0852	1539.7	.084	6.61	9.1
39	39	26.20 Q	36.46 Q	4.80			002	24.092	26.191	384.8	.1606	1539.9	.310	1.77	33.8
59	59	26.31 Q	36.46 Q	4.78			002	24.058	26.296	388.9	.2382	1540.4	.699	2.51	23.9
78	78	25.95	36.342	4.76			001	24.082	25.931	387.4	.3121	1539.8	1.218	7.17	8.4
117*	117	24.71	36.645	4.61			001	24.693	24.683	330.7	.4525	1537.9	2.598	9.49	6.3
155	155	22.19	37.074	4.23			001	25.758	22.157	230.7	.5596	1532.9	4.053	6.01	10.0
231*	231	17.36	36.484	3.62			003	26.583	17.320	154.1	.7065	1520.2	6.846	3.39	17.7
305	306	15.00	36.073	3.67			005	26.816	14.952	133.5	.8135	1513.7	9.759	3.90	15.4
378	379	11.92	35.653	3.23			009	27.129	11.869	104.2	.9008	1504.2	12.778	1.72	34.8
450	452	10.15	35.282	2.93			013	27.165	10.095	101.1	.9752	1498.7	15.937	1.99	30.2
520	522	8.43	34.991	2.82			018	27.221	8.373	95.6	1.0446	1493.1	19.385	1.32	45.4
590	593	7.65	34.862	2.84			021	27.238	7.589	94.4	1.1116	1491.1	23.203	2.06	29.2
659	662	6.53	34.756	2.93			024	27.305	6.517	87.7	1.1749	1487.9	27.257	1.02	58.6
728	732	6.24	34.708	3.00			026	27.312	6.172	87.5	1.2358	1487.6	31.601	1.72	34.8
796*	800	5.88	34.711	3.05			027	27.361	5.807	83.2	1.2943	1487.3	36.181	1.93	31.0
864	869	5.52	34.737	3.31			029	27.426	5.443	77.3	1.3494	1487.0	40.874	2.41	24.9
932*	936	5.18	34.826	3.74			028	27.538	5.098	67.0	1.3989	1486.9	45.437	.00	.0

SHIP AN CRUISE 056 STATION 1699 DATE 7- IV -70 GMT 11.9 LATITUDE 15 13.7 N LONGITUDE 61 12.8 W DEPTH 1152

DEPTH	PRESS	TEMP	SAL	σ _t	Pθ ₄	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	26.38	35.206	4.92			002	23.091	26.380	478.8	.0000.	1538.3	.000	8.21	7.3
49	49	26.18	36.444	5.46			001	24.087	26.168	385.7	.2078.	1540.0	.477	6.07	9.9
74	74	25.73	36.622	4.67			001	24.362	25.712	360.6	.3013	1539.6	1.062	6.88	8.7
98	98	25.03	36.793	4.45			001	24.707	25.007	328.6	.3843.	1538.5	1.787	8.84	6.8
147	147	21.03	36.827	3.74			002	25.894	21.000	217.3	.5185.	1529.4	3.403	5.38	11.2
197*	197	18.83	36.628	3.89			002	26.326	18.794	177.7	.6177.	1524.0	5.127	4.45	13.5
246	246	16.61	36.282	3.88			003	26.608	16.568	152.0	.6989.	1518.0	6.956	3.08	19.5
295*	296	15.30	36.051	3.73			005	26.732	15.253	141.3	.7712	1514.4	8.954	3.31	18.2
344	345	13.64	35.773	3.43			007	26.877	13.589	128.1	.8376	1509.6	11.123	2.63	22.8
393*	394	12.02	35.460.	2.94			011	26.961	11.967	120.5	.8989	1504.5	13.438	2.23	26.9.
492	494	9.86	35.102.	2.78			016	27.075	9.801	110.3	1.0139	1498.1	18.638	2.24	26.8
590*	593	8.03	34.874.	2.85			021	27.191	7.967	99.3	1.1173	1492.5	24.359	1.59	37.6
688	691	7.25	34.794.	2.89			023	27.242	7.180	95.0	1.2133	1491.0	30.650	1.71	35.1
786*	790	6.43	34.730	3.04			026	27.304	6.355	89.3	1.3044	1489.4	37.538	2.14	28.0
885	890	5.64	34.749	3.35			028	27.421	5.560	78.3	1.3881	1487.9	44.703	2.67	22.5
983*	989	4.97	34.897	4.13			028	27.618	4.885	59.6	1.4563	1487.0	51.212	1.80	33.4
1081	1088	4.54	34.934	4.45			030	27.697	4.450	52.4	1.5117	1486.9	57.081	1.12	53.6
1180*	1188	4.40	34.944	4.73			031	27.720	4.302	50.8	1.5634	1488.0	63.087	.00	.0

SHIP AN CRUISE 056 STATION 1700 DATE 7- IV -70 GMT 13.1 LATITUDE 15 14.4 N2 LONGITUDE 61 15.3 W DEPTH 300

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
9	9	26.39	35.088	4.77			003	22.999	26.388	487.9	.0000	1538.3	.000	8.46	7.1
18	18	26.40	35.356	4.75			002	23.197	26.396	469.3	.0431	1538.7	.059	9.25	6.5
36	36	26.36	35.973	4.73			002	23.675	26.351	424.5	.1237	1539.6	.278	6.87	8.7
53	53	26.24	36.246	4.70			002	23.918	26.227	401.9	.1940	1539.9	.5982	6.11	9.8
71	71	26.07	36.442	4.69			001	24.120	26.053	383.5	.2649	1540.1	1.046	9.08	6.6
89	89	25.41	36.779	4.59			001	24.579	25.389	340.4	.3302	1539.2	1.5782	7.78	7.7
111	111	24.57	36.980	4.48			001	24.988	24.545	302.4	.4011	1537.9	2.300	9.01	6.7
134	134	22.74	37.030	4.02			001	25.567	22.711	248.1	.4647	1533.8	3.090	6.88	8.7
178*	178	19.62	36.734	3.86			002	26.202	19.586	189.0	.5612	1526.0	4.6042	5.06	11.8
222	222	17.27	36.394	3.91			003	26.536	17.231	153.3	.6380	1519.7	6.1642	3.34	18.0
267*	268	15.97	36.172	3.82			004	26.673	15.926	146.3	.7069	1516.2	7.885	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1701	10- IV -70	4.5	13 38.8 N	60 56.5 W	33

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _θ	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	27.38	34.671	4.63			004	22.370	27.380	547.7	.0000	1539.9	.000	3.22	18.7
20	20	27.42	34.752	4.66			004	22.418	27.415	543.9	.1037	1540.4	.111	14.82	4.0
30	30	27.04	35.509	4.64			003	23.109	27.033	478.2	.1549	1540.5	.240	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1702 10- 1V -70 5.9 13 34.9 N 60 55.1 W 219

DEPTH	PRESS	TEMP	SAL	OX	PO4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	27.40	34.658	4.65			004	22.354	27.400	549.2	.0000	1539.9	.000	5.58	10.8
9	9	27.39	34.751	4.73			004	22.427	27.388	542.6	.0437	1540.1	.022	7.41	8.1
19	19	27.44	34.995	4.65			004	22.594	27.435	527.0	.0972	1540.7	.098	13.97	4.3
28	28	27.44	35.730	4.58			003	23.147	27.433	474.5	.1423	1541.6	.206	7.59	7.9
35*	38	27.51	35.994	4.64			002	23.323	27.500	458.2	.1890	1542.2	.363	7.25	8.3
61	61	26.69	36.132	4.26			002	23.690	26.675	424.1	.2906	1541.0	.873	7.04	8.5
85*	85	25.80	36.239	4.27			002	24.051	25.780	390.6	.3885	1539.8	1.600	10.34	5.8
104	104	24.76	36.656	3.99			002	24.686	24.736	330.9	.4573	1537.2	2.252	10.54	5.7
132	132	21.36	36.643	3.63			003	25.658	21.353	239.2	.5373	1529.9	3.208	11.06	5.4
156	156	15.53	35.911	3.25			008	26.573	15.505	152.1	.5845	1512.7	3.891	5.66	10.5
180*	180	13.31	35.592	3.11			010	26.806	13.284	130.1	.6186	1505.6	4.474	.00	.9

SHIP AN CRUISE 056 STATION 1703 DATE 10-1V-70 GMT 7.9 LATITUDE 13 30.1 N LONGITUDE 60 57.3 W DEPTH 512

DEPTH	PRESS	TEMP	SAL	OX	P04	PHSS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.39	34.810	4.61			004	22.471	27.390	538.0	.00003	1540.1	.000	1.253	48.0
10	10	27.43	34.812	4.72			003	22.460	27.428	539.5	.04853	1540.3	.027	7.41	8.1
19	19	27.43	35.012	4.66			003	22.610	27.425	525.5	.09643	1540.7	.0983	12.09	5.0
29	29	27.43	35.621	4.51			003	23.068	27.423	482.1	.14693	1541.5	.2213	11.58	5.2
35	33	27.34	36.084	4.49			002	23.446	27.331	446.4	.18873	1542.0	.3633	6.91	8.7
42*	48	27.02	36.139	4.32			003	23.590	27.008	433.1	.23273	1541.5	.5573	3.87	15.5
72*	72	26.73	36.144	4.22			002	23.686	26.712	424.9	.33593	1541.3	1.189	9.93	6.33
96	96	24.78	36.315	4.25			002	24.422	24.758	355.6	.4297	1537.4	1.986	11.02	5.33
120	120	22.31	36.562	3.70			003	25.335	22.285	269.5	.5050	1532.0	2.805	10.94	5.5
144*	144	18.45	36.390	3.25				26.233	18.454	184.5	.5597	1521.9	3.532	5.45 ³	11.0
163	163	16.64	36.082	3.26			007	26.447	16.612	164.6	.6018	1516.5	4.202	4.36	13.7
192*	192	15.47	35.904	3.20			008	26.581	15.439	152.4	.6400	1513.1	4.906	3.36	17.9
240	240	14.03	35.631	3.13			010	26.732	13.994	139.1	.7104	1509.1	6.455	2.36	25.4
287*	288	13.35	35.592	3.09			010	26.798	13.308	133.9	.7749	1507.5	8.196	2.97	20.2
335	336	11.90	35.366	3.01			012	26.911	11.855	123.7	.8371	1503.1	10.174	3.14	19.1
383*	384	10.32	35.158	2.87			015	27.039	10.273	111.7	.8939	1498.0	12.262	2.47	24.3
431	432	9.23	35.027	2.86				27.113	9.230	104.8	.9462	1494.8	14.443	.00	.0

SHIP AN CRUISE 056 STATION 1704 DATE 10- IV -70 GMT 9.6 LATITUDE 13 25.5 N LONGITUDE 60 58.5 W DEPTH 832

DEPTH	PRESS	TEMP	SAL	ØX	PØ4	PHØS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PØT EN	V FREQ	PERIOD
1	1	27.38	34.992	4.79			003	22.611	27.380	524.6	.0000	1540.3	.000	6.93	8.7
49	.49	27.48	35.963	4.72			002	23.309	27.468	459.9	.2365	1542.3	.567	6.56	9.1
74	74.	26.91	36.149	4.26			003	23.633	26.892	430.1	.3479	1541.7	1.263	12.39	4.8
98	98.	24.58	36.720	3.90			002	24.789	24.558	320.8	.4382	1537.4	2.042	10.55	5.7
147	147	16.53	36.105	3.19			006	26.491	16.505	159.8	.5565	1515.9	3.426	3.93	15.3
196*	196	15.22	36.000	3.44			006	26.711	15.189	140.2	.6303	1512.5	4.712	2.90	20.7
245	245	13.16	35.568	3.15			010	26.818	13.125	130.7	.6971	1506.1	6.215	3.00	20.0
294*	295	11.54	35.312	2.91			012	26.937	11.501	120.0	.7588	1501.1	7.916	1.28	47.0
343	344	11.32	35.274	2.90			013	26.949	11.275	119.9	.8180	1501.1	9.849	1.41	42.5
392*	393	10.94	35.205	3.030			014	26.965	10.890	119.3	.8770	1500.4	12.074	2.56	23.4
441	443	10.10	35.122	2.87			016	27.049	10.046	111.8	.9339	1498.1	14.507	2.28	26.3
490*	492	8.96	34.955	2.85			018	27.109	8.904	106.1	.9877	1494.5	17.074	2.27	26.4
536	538	8.08	34.853	2.81			021	27.167	8.023	100.6	1.0356	1491.8	19.594	2.32	25.9
580*	583	7.15	34.752	2.90			024	27.223	7.092	94.9	1.0789	1488.8	22.076	1.74	34.5
668	671	6.29	34.679	2.97			027	27.283	6.227	89.5	1.1607	1486.8	27.308	1.95	30.8
754*	758	5.67	34.683	3.21			030	27.365	5.602	81.9	1.2350	1485.7	32.724	.00	.0

SHIP AN CRUISE 056 STATION 1705 DATE 10- IV 70 GMT 11.2 LATITUDE 13 22.2 N LONGITUDE 61 1.8 W DEPTH 824

DEPTH	PRESS	TEMP	SAL	BX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.40	35.099	4.69			003	22.685	27.400	517.5	.00003	1540.4	.000	6.95	8.6
49	49	27.23	35.958	4.67			002	23.386	27.218	452.6	.23313	1541.8	.558	6.373	9.3
73	73	26.74	36.151	4.19			003	23.688	26.722	424.7	.3385	1541.3	1.212	10.823	5.3
98	98	24.35	36.383	4.083			003	24.603	24.328	338.4	.43413	1536.4	2.035	12.983	4.33
122	122	19.82	36.373	3.44			005	25.874	19.797	218.0	.50113	1525.2	2.772	8.74	6.9
146*	146	17.04	36.201	3.22			006	26.443	17.015	164.4	.54723	1517.5	3.397	4.99	12.0
171	171	14.98	35.822	3.20			008	26.627	14.953	147.3	.58643	1511.13	4.030	3.71	16.2
195*	195	13.80	35.614	3.11			009	26.721	13.771	138.7	.62093	1507.5	4.675	2.58	23.3
244	244	13.02	35.517	3.09			010	26.807	12.985	131.7	.68753	1505.6	6.170	3.37	17.8
293*	294	11.22	35.268	2.94			013	26.962	11.182	117.4	.7488	1499.9	7.852	.87	68.8
340	341	10.88	35.185	2.91			014	26.960	10.837	118.5	.80463	1499.3	9.664	2.22	27.0
386*	387	10.07	35.073	2.88			016	27.016	10.023	113.7	.85833	1497.0	11.664	2.37	25.3
478	480	8.15	34.840	2.83			021	27.146	8.099	101.6	.95803	1491.1	16.060	1.84	32.5
568*	570	6.95	34.705	2.96			024	27.214	6.894	95.3	1.04733	1487.8	20.843	1.86	32.2
655	658	6.45	34.716	3.14			026	27.291	6.388	89.8	1.12803	1487.3	25.902	1.69	35.6
741*	745	6.06	34.727	3.21			027	27.350	5.991	83.8	1.20283	1487.1	31.259	1.87	32.0
824	829	5.69	34.763	3.44			028	27.426	5.615	77.2	1.2701	1487.1	36.668	.00	.0

SHIP AN CRUISE Q56 STATION 1706 DATE 10- IV -70 GMT 12.7 LATITUDE 13 21.1 N LONGITUDE 61 6.6 W DEPTH 375

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	27.36	35.192	4.69			003	22.768	27.360	509.6	.0000	1540.4	.000	3.33	18.0
20	20	27.37	35.266	4.74			003	22.820	27.365	505.4	.0965	1540.8	.1033	8.13	7.4
40	40	27.32	35.784	4.80Q			003	23.226	27.310	467.5	.19393	1541.6	.3983	8.31	7.2
60	60	26.78	36.118	4.29			003	23.651	26.765	427.8	.2835	1541.1	.8533	8.20	7.3
80	80	25.90	36.298	4.47			002	24.064	25.881	389.1	.3654	1539.7	1.435	14.02	4.3
100	100	21.69	36.288	3.90			004	25.302	21.669	271.8	.4317	1529.8	2.034	10.78	5.6
125	125	18.613	36.406	3.33			004	26.212	18.587	185.8	.48913	1522.0	2.682	5.35	11.2
150*	150	17.31	36.265	3.33			005	26.427	17.284	166.1	.53333	1518.4	3.301	3.64	16.5
200	200	15.35	35.911	3.18			007	26.613	15.318	149.6	.61263	1512.9	4.713	4.49	13.4
250*	250	11.85	35.347	3.37Q			012	26.905	11.817	122.0	.68093	1501.5	6.271	3.28	18.3
300	301	9.97	35.101	2.90			016	27.055	9.934	108.1	.73873	1495.3	7.895	2.60	23.1
350*	351	8.71	34.349	3.02Q			019	27.144	8.671	99.8	.7910	1491.3	9.634	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1707	19 IV -70	03	11 46.8 N	61 59.0 W	274

DEPTH	PRESS	TEMP	SAL	OX	P04	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.04	35.502	4.57			003	23.104	27.040	477.5	0000	1540.1	0000	0.38	159.9
10	10	27.06	35.502	4.60			003	23.098	27.058	478.5	0431	1540.3	0024	2.71	22.1
19	19	27.02	35.504	4.62			003	23.112	27.015	477.5	0861	1540.3	0088	4.02	14.9
29	29	26.96	35.537	4.41			003	23.156	26.953	473.7	1337	1540.4	0205	3.15	19.1
35	35	26.93	35.553	4.38			003	23.178	26.921	472.0	1763	1540.5	0351	14.10	4.3
62	62	23.67	36.218	3.92			003	24.681	23.656	329.6	2727	1534.0	0823	13.50	4.4
86	86	19.14	36.384	3.31				26.050	19.124	199.0	3363	1522.8	1.286	5.11	11.7
134	134	16.74	36.097	3.760			006	26.435	16.717	164.7	4240	1516.3	2.254	3.82	15.7
182	182	14.90	35.811	3.16			008	26.636	14.872	146.7	4991	1511.0	3.460	4.37	13.7
230	230	12.37	35.477	3.25			009	26.906	12.338	121.7	5639	1503.1	4.814	0.00	0.0

SHIP AN CRUISE 056 STATION 1708 DATE 19- IV -70 GMT 1.3 LATITUDE 11 44.4 N LONGITUDE 61 59.5 W DEPTH 723

DEPTH	PRESS	TEMP	SAL	σ _t	ρ _{σ_t}	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	v FREQ	PERIOD
1	1	27.22	35.440	4.77				23.000	27.220	487.5	.0000	1540.4	.000	2.43	24.7
8	8	27.28	35.441	5.03Q			003	22.931	27.278	489.5	.0342	1540.6	.016	4.422	13.6
23	23	27.13	35.486	4.63			003	23.063	27.124	482.3	.1072	1540.6	.1312	-1.15	52.0
39	39	27.10	35.448	4.63			003	23.044	27.090	484.8	.1846	1540.8	.377	9.22	6.5
58	58	25.79	35.564	4.60			003	23.545	25.776	437.7	.2724	1538.2	.8082	16.84	3.6
78*	78	21.67	36.330	3.87			003	25.339	21.654	267.4	.3430	1529.4	1.282	8.87	6.8
117	117	18.00	36.313	3.27			005	26.295	17.979	177.7	.4302	1520.0	2.117	4.77	12.6
156*	156	16.00	36.031	3.17			006	26.558	15.974	153.7	.4951	1514.3	3.016	4.86	12.3
195	195	13.58	35.697	3.07			009	26.831	13.551	128.2	.5503	1506.9	4.000	4.77	12.6
234	234	10.79	35.336	3.24			010	27.094	10.761	103.3	.5958	1497.5	4.990	.96	62.2
312	313	9.03	34.945	3.22			015	27.090	8.995	104.4	.6773	1491.8	7.276	.48	123.7
390*	391	7.78	34.675	3.60			019	27.072	7.740	106.7	.7601	1488.0	10.265	1.98	30.3
468	470	7.65	34.758	2.90			021	27.156	7.602	100.0	.8412	1488.9	13.829	1.70	35.3
546*	548	6.93	34.693	2.90			023	27.207	6.876	95.6	.9180	1487.3	17.823	.00	.0

SHIP AN CRUISE 056 STATION 1709 DATE 19- IV -70 GMT 2.9 LATITUDE 11 39.4 N LONGITUDE 61 59.0 W DEPTH 702

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	27.07	35.499	4.67			002	23.092	27.070	478.6	.0000	1540.1	.000	1.56	38.6
10	10	27.12	35.502	4.81			002	23.078	27.118	480.3	.0432	1540.4	.024	2.55	23.5
29	29	27.07	35.514	4.85			002	23.103	27.063	478.7	.1344	1540.6	.206	7.95	7.5
48	48	26.57	35.792	4.38			002	23.472	26.558	444.3	.2222	1540.1	.549	17.39	3.5
71	71	20.37	36.478	3.51			004	25.672	20.856	235.4	.3005	1527.4	.998	6.56	9.1
95*	95	19.55	36.430	3.31			004	25.938	19.532	206.1	.3537	1524.1	1.446	6.29	9.5
143	143	15.65	35.944	3.16			007	26.569	15.637	152.1	.4401	1513.0	2.467	3.88	15.5
190*	190	12.96	35.455	3.22			010	26.771	12.933	133.6	.5076	1504.4	3.608	2.65	22.6
238	238	11.54	35.213	3.14			012	26.860	11.509	125.8	.5702	1500.0	4.978	2.17	27.6
285*	286	11.11	35.184	2.98			012	26.917	11.073	121.4	.6286	1499.3	6.544	2.23	26.9
381	382	8.69	34.802	3.23			017	27.032	8.648	111.0	.7408	1491.5	10.355	1.64	36.6
475	477	8.31	34.803	2.75			019	27.092	8.259	106.7	.8438	1491.6	14.874	2.11	28.4
571		6.84	34.663	2.76			024	27.196	6.784	96.9	.9422	1487.3	20.141	1.90	31.6
		5.93	34.616	3.13			028	27.279	5.869	89.2	1.0313	1485.2	25.786	.00	.0

SHIP AN CRUISE 056 STATION 1710 DATE 19- IV -70 GMT 4.2 LATITUDE 11 34.3 N LONGITUDE 62 .5 W DEPTH 621

DEPTH	PRESS	TEMP	SAL	BX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
0		26.90													
5	5	26.99	35.567	4.71			003	23.169	26.989	471.5	.00000	1540.1	.000	2.54	23.5
26	26	26.93	35.573	4.62			002	23.196	26.924	469.7	.0989	1540.3	.1570	6.23	9.6
44	44	26.52	35.633	4.45				23.406	26.509	450.5	.18180	1539.8	.4520	16.82	3.6
67	67	21.32	36.368	3.96			003	25.465	21.306	255.0	.2632	1528.4	.888	9.75	6.2
89*	89	18.67	36.304	3.38			005	26.119	18.654	193.4	.31270	1521.4	1.276	5.810	10.3
135	135	15.20	35.833	3.50			007	26.591	15.179	149.7	.39190	1511.3	2.162	3.50	17.1
181*	181	13.00	35.433	3.83			009	26.750	12.974	135.3	.4578	1504.4	3.222	2.49	24.1
227	227	11.65	35.192	3.13			012	26.823	11.620	129.1	.5190	1500.2	4.498	2.50	24.0
274*	275	11.40	35.236	3.05			013	26.904	11.364	122.5	.5784	1500.2	6.024	2.20	27.2
371	372	9.50	34.954	3.07			016	27.020	9.457	112.6	.6931	1494.6	9.798	1.74	34.6
470*	472	8.55	34.344	2.89			019	27.087	8.493	107.4	.8027	1492.5	14.518	2.47	24.3
570	573	6.45	34.654	3.11			026	27.242	6.396	92.1	.9032	1485.8	19.847	.00	.0

SHIP AN CRUISE 056 STATION 1711 DATE 19- IV -70 GMT 5.9 LATITUDE 11 29.2 N LONGITUDE 62 0 W DEPTH 358

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHBS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	POT EN	V FREQ	PERIOD
1	1	26.92	34.022	4.65			009	22.029	26.920	580.3	.0000	1538.2	.000	21.25	2.8
9	9	26.82	35.501				003	23.173	26.818	471.2	.0421	1539.7	.020	6.43	9.3
28	28	26.45	35.659	4.52			003	23.410	26.443	449.4	.1296	1539.4	.183	10.28	5.8
46	46	25.24	35.947	4.45			002	24.004	25.229	393.5	.2056	1537.2	.467	15.38	3.9
70	70	20.15	36.388	3.54			004	25.798	20.136	223.4	.2798	1525.3	.882	9.08	6.6
93*	93	17.00	36.119	3.19			006	26.390	16.984	167.7	.3250	1516.4	1.252	3.99	15.0
141	141	14.81	35.754	3.26			008	26.612	14.788	147.7	.4010	1510.0	2.152	3.34	18.0
189*	189	12.26	35.262	3.40			010	26.761	12.234	134.3	.4691	1501.8	3.295	2.36	25.4
238	238	11.87	35.259	3.08			011	26.833	11.838	128.5	.5338	1501.2	4.710	3.07	19.6
287*	288	10.51	35.102	2.97			014	26.962	10.474	116.9	.5943	1497.1	6.332	1.84	32.6
336	337	9.78	34.985	2.97			015	26.999	9.740	114.0	.6512	1495.1	8.150	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1712	19- IV -70	7.2	11 26.4 N	62 .6 W	183

DEPTH	PRESS	TEMP	SAL	BX	PB4	PH6S	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PBT EN	V FREQ	PERIOD
1	1	26.90	33.994	4.61			009	22.014	26.900	581.7	.00003	1538.1	.0003	11.77	5.1
9	9	26.94	34.472	4.65			007	22.361	26.938	548.9	.04523	1538.8	.0233	13.92	4.3
26	26	26.52	35.673	4.56			002	23.398	26.514	450.4	.13023	1539.5	.167	10.99	5.5
44	44	25.00	35.943	4.27			003	24.078	24.990	386.3	.20563	1536.6	.4323	14.92	4.0
65	65	21.35	36.498	3.51			004	25.556	21.337	246.3	.27233	1528.5	.7883	10.87	5.5
87*	87	17.16	36.144	3.42			005	26.371	17.145	169.3	.31823	1516.8	1.136	4.87	12.3
109	109	15.84	35.343	3.19			0073	26.527	15.822	155.0	.35403	1513.0	1.494	3.52	17.1
130*	130	15.01	35.726	3.37			0073	26.601	14.990	148.5	.38603	1510.5	1.885	3.52	17.0
152	152	13.94	35.496	3.30			0083	26.678	13.917	141.6	.41813	1507.2	2.348	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1713 20- IV -70 22.7 16 59.0 N 64 1.0 W 2150

DEPTH	PRESS	TEMP	SAL	θX	Pθ4	PHθS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PθT EN	V FREQ	PERIOD
1	1	27.06	36.162	5.320			002	23.594	27.060	430.7	.0000	1540.8	.000	3.54	16.9
49	49	26.60	36.174	5.02			002	23.750	26.588	417.8	.2040	1540.6	.515	7.57	7.9
74	74	26.06	36.530	4.65			002	24.189	26.042	377.0	.3036	1540.2	1.135	9.63	6.2
98	98	24.68	36.882	4.19			002	24.881	24.658	312.1	.3865	1537.8	1.856	7.45	8.0
143	143	21.94	36.948	3.73			002	25.733	21.909	232.8	.5232	1532.0	3.528	6.07	9.9
197*	197	18.83	36.563	3.50			003	26.276	18.794	182.4	.6254	1524.0	5.304	.00	.0

SHIP AN CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 056 1714 26-IV-70 11:1 27 00 N 73 00 W 4883

DEPTH	PRESS	TEMP	SAL	ΘX	PΘ4	PHΘS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PΘT EN	V FREQ	PERIOD
1	1	23.40	36.634	5.02			001	25.075	23.400	289.6	.0000	1532.8	.0002	5.34	11.2
50	50	22.15	36.707	5.45			001	25.491	22.140	252.0	.1332	1530.6	.3252	6.93	8.7
75	75	20.85	36.716	5.18			001	25.859	20.835	217.9	.1922	1527.7	.6982	3.14	19.1
99	99	20.62	36.716	5.10			001	25.921	20.600	212.8	.24412	1527.4	1.160	3.08	19.5
124	124	20.30	36.684	5.04			001	25.983	20.276	207.8	.29702	1527.0	1.764	3.30	18.2
149*	149	20.02	36.682	4.98			001	26.057	19.991	201.8	.34842	1526.6	2.484	3.39	17.7
174	174	19.65	36.656	4.91			001	26.135	19.617	195.2	.39832	1526.0	3.309	3.43	17.5
198	198	19.33	36.648	4.86			001	26.212	19.293	188.7	.44462	1525.5	4.193	2.98	20.1
297	298	18.17	36.562	4.81			002	26.443	18.116	170.0	.62322	1523.7	8.682	1.94	31.0
395*	397	17.72	36.508	4.77			002	26.513	17.650	166.5	.78922	1524.0	14.570	1.92	31.2
591	594	16.26	36.229	4.28			003	26.649	16.1602	159.0	1.1105	1522.5	30.770	2.85	21.1
736*		11.95		3.64											
982	989	7.60	35.081	3.71			018	27.417	7.495	84.2	1.5902	1497.7	66.592	2.27	26.4
1179*	1188	5.62	35.049	4.96			016	27.660	5.510	59.7	1.7335	1493.1	82.277	1.24	48.5
1375	1386	5.01	35.016	5.82			014	27.708	4.886	55.9	1.8482	1493.8	97.318	1.46	41.0
1572*	1586	4.20	34.999	6.10			014	27.786	4.066	48.0	1.9519	1493.8	112.980	.91	65.7
1769	1785	3.36	34.965	6.17			015	27.800	3.810	47.6	2.0474	1496.1	129.416	.97	61.8
1967*	1986	3.74	34.982	6.22			015	27.820	3.574	46.4	2.1418	1498.5	147.603	.88	68.3
2125*	2143	3.61	34.976	6.18			017	27.829	3.430	46.3	2.2167	1500.6	163.423	.92	65.0
2320	2345	3.442	34.971	6.18			018	27.841	3.243	45.8	2.3076	1503.2	184.263	.97	61.5
2513*	2541	3.21	34.960	6.19			020	27.855	2.997	44.6	2.3963	1505.5	205.406	.90	66.5
2606			34.949	6.22			021								
2997*	3034	2.82	34.934	6.26			0232	27.870	2.564	43.8	2.6144	1512.2	268.459	.94	63.5
3288			34.926	6.32			0242								
3580			34.916	6.33	2		0272								
3874	3931	2.255	34.910	6.32			029	27.900	1.915	41.1	2.9949	1525.0	403.282	.79	76.1
4171			34.904	6.29			0302								
4471*	4543	2.300	34.896	6.25			033	27.885	1.886	45.5	3.2599	1535.7	518.377	1.00	60.3
4778*	4858	2.185	34.892	6.22			0362	27.892	1.736	45.0	3.4026	1540.7	586.850	.00	.0

SHIP CRUISE STATION DATE GMT LATITUDE LONGITUDE DEPTH
 AN 056 1715 27- IV -70 21.7 30 56.2 N 72 9.0 W 5410

DEPTH	PRESS	TEMP	SAL	OX	P04	PH05	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	16	21.06	36.587	5.890			001	25.703	21.060	229.8	.0000	1526.8	.000	6.13	9.8
24	246	20.09	36.588	5.40			001	25.966	20.085	205.7	.0503	1524.6	.0616	5.87	10.2
47	476	19.14	36.577	5.39			001	26.207	19.131	183.6	.0953	1522.4	.2226	3.54	17.0
94	946	18.65	36.432	5.31			001	26.372	18.643	169.6	.1788	1521.9	.8186	1.93	31.1
141	141	18.54	36.636	5.16			001	26.406	18.514	168.1	.2586	1522.3	1.780	1.34	44.9
188*	189	18.53	36.639	5.16			001	26.411	18.496	169.3	.3383	1523.1	3.127	2.81	21.4
281.6	2826	16.80	36.353	4.56			003	26.598	16.832	154.2	.4897	1519.4	6.739	2.91	20.6
375*	377	14.62	35.950	4.03			006	26.805	14.562	136.5	.6273	1513.5	11.333	2.42	24.8
468	470	13.04	35.690	3.80			008	26.937	12.972	125.5	.7501	1509.5	16.625	2.41	24.9
560*6	563	11.54	35.479	3.700			011	27.067	11.465	114.3	.8613	1505.7	22.476	2.36	25.5
652	656	10.12	35.307	3.46			014	27.190	10.039	103.2	.9622	1501.9	28.740	2.69	22.3
742*	747	8.33	35.139	3.72			016	27.352	8.248	87.3	1.0488	1496.6	34.909	2.56	23.5
832	838	7.04	35.087	4.09			017	27.502	6.955	72.7	1.1215	1493.0	40.762	2.31	26.0
918*	925	5.94	35.040	4.66			016	27.613	5.854	61.5	1.1798	1490.0	45.987	1.82	33.0
1000	1003	5.42	35.038	5.460			015	27.676	5.330	55.5	1.2282	1489.3	50.761	1.52	39.4
1074*	1082	5.09	35.034	5.32			014	27.713	4.995	52.2	1.2685	1489.2	55.059	.00	.0

SHIP AN CRUISE 056 STATION 1716 DATE 27- IV '70 GMT 23.9 LATITUDE 31 9.0 N LONGITUDE 72 0 W DEPTH 5400

DEPTH	PRESS	TEMP	SAL	BX	P04	PHBS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	P0T EN	V FREQ	PERIOD
1	1	20.96	36.548	5.16			001	25.701	20.960	230.0	.0000	1526.5	.000	7.55	7.9
24	24	19.40	36.534	5.63			000	26.107	19.395	192.3	.0488	1522.7	.057	4.34	13.3
48	48	18.96	36.558	5.38			001	26.239	18.951	180.6	.0938	1521.9	.2225	3.53	17.0
95	95	18.43	36.597	5.04				26.404	18.413	166.6	.1758	1521.25	.816	2.11	28.5
142	142	18.21	36.583	5.03				26.449	18.184	164.0	.2540	1521.3	1.765	1.86	32.3
190*	191	17.94	36.535	4.79			002	26.479	17.906	162.7	.3329	1521.3	3.109	1.87	32.2
285	286	17.49	36.471	4.76			002	26.541	17.440	160.0	.4871	1521.4	6.865	1.88	31.9
380*	382	16.82	36.342	4.63			003	26.604	16.755	156.9	.6387	1520.9	12.034	2.30	26.0
476	479	15.63	36.132	4.21			004	26.720	15.552	148.3	.7863	1518.6	18.502	2.69	22.3
572*	575	13.60	35.778	3.95			007	26.890	13.515	133.3	.9225	1513.2	25.803	2.70	22.2
667	671	11.58	35.479	3.58			011	27.059	11.490	117.7	1.0423	1507.6	33.425	2.91	20.6
763*	768	9.27	35.217	3.50			015	27.263	9.180	97.5	1.1470	1500.55	41.039	2.87	20.9
859	865	7.33	35.090	3.97				27.463	7.241	77.3	1.2317	1494.6	48.056	2.45	24.5
955*	962	6.01	35.042	4.88			016	27.605	5.920	62.8	1.2996	1490.9	54.363	1.76	34.0
1052	1060	5.42	35.035	5.19				27.674	5.325	56.4	1.3581	1490.1	60.383	1.44	41.7
1147*	1156	5.06	35.031	5.53			015	27.714	4.958	52.9	1.4106	1490.3	66.316	.00	.0

SHIP	CRUISE	STATION	DATE	GMT	LATITUDE	LONGITUDE	DEPTH
AN	056	1717	28- IV -70	2.9	31 32.5 N	71 58.0 W	5400

DEPTH	PRESS	TEMP	SAL	ΘX	PΘ4	PHOS	SIL	SIGMAT	THETA	DELTA	DYN HT	SND VEL	PΘT EN	V FREQ	PERIOD
1	1	21.46	36.522	5.26			001	25.544	21.460	245.0	.0000	1527.8	.000	5.74	10.5
24	24	20.78	36.577	5.33			001	25.772	20.775	224.1	.0542	1526.52	.067	4.76	12.6
48	48	19.94	36.492	5.29			0012	25.933	19.931	209.7	.1065	1524.5	.258	4.56	13.2
95	95	19.18	36.609	4.94 ²				26.221	19.162	184.0	.1995	1523.3	.926	3.19	18.8
143	143	18.61	36.591	4.69			001	26.354	18.584	173.1	.2857	1522.5	1.972	2.66	22.3
191*	192	18.21	36.571	4.70			001	26.439	18.175	166.6	.3678	1522.1	3.374	1.84	32.3
286	287	17.79	36.511	4.69			002	26.498	17.739	164.2	.5259	1522.4	7.241	1.79	33.5
382*	384	17.30	36.424	4.59			002	26.551	17.233	162.2	.6837	1522.4	12.648	1.91	31.3
477	480	16.84	36.366	4.69 ^Q			003	26.618	16.758	153.8	.8373	1522.6	19.418	2.41	24.9
572*	575	15.22	36.041	4.14			006	26.742	15.128	148.7	.9845	1518.7	27.329	2.87	20.9
668	672	13.05	35.695	3.86			009	26.939	12.953	130.8	1.1198	1512.9	35.908	2.95	20.3
763*2	7652	10.62	35.360	3.41			014	27.143	10.522	110.8	1.2356	1505.6	44.379	2.90	20.7
859	865	8.54	35.170	3.58			020	27.344	8.443	90.6	1.3332	1499.3	52.471	2.71	22.1
954*	9612	6.78	35.057	4.28			017	27.515	6.684	72.9	1.4117	1494.0	59.747	2.23	26.3
1049	1057	5.76	35.039	4.90			018	27.635	5.662	60.8	1.4759	1491.5	66.333	1.66	36.1
1145*	1154	5.27	35.036	5.22			019	27.693	5.167	55.4	1.5322	1491.1	72.687	.00	.0

Woods Hole Oceanographic Institution
Reference No. 71-13

HYDROGRAPHIC STATION DATA FROM ATLANTIS II CRUISE 56 TO THE SOUTHEASTERN APPROACHES TO THE CARIBBEAN SEA, FEBRUARY - APRIL 1970. By William G. Metcalf, Marvel C. Stalcup and Marguerite E. Zemanovic, 7 pp. 11 Figures and 160 Station Data. February 1971. ISF GA-15730.

Hydrographic station data from 160 stations occupied during ATLANTIS II Cruise 56 are presented in tabularized form. The tables include the actual observations of temperature, salinity, oxygen and silicate along with various computed parameters such as potential temperature, density and various dynamic calculations. Nearly 90 of these stations, occupied during February 1970, were in two long hydrographic sections extending parallel to the chain of islands of the Lesser Antilles from Guadeloupe to the South American shelf. Vertical profiles of temperature, salinity, oxygen and silicate from these sections are included.

1. Caribbean
2. Currents
3. Hydrographic stations
4. Profiles

- I. Metcalf, William G.
- II. Stalcup, Marvel C.
- III. Zemanovic, Marguerite E.
- IV. GA 15730

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