

# UNIVERSITY OF WASHINGTON

## DEPARTMENT OF

# OCEANOGRAPHY

Technical Report No. 250

PHYSICAL, CHEMICAL AND PRODUCTIVITY DATA  
FROM AN INVESTIGATION OF  
THE NORTHEASTERN TROPICAL PACIFIC OCEAN

*RV Thomas G. Thompson* CRUISE 026 (PONCHO):  
3 January—14 March 1968

Prepared by

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With the Data Analysis and Applied Mathematics Staff

Scientific Program

Under the general direction of

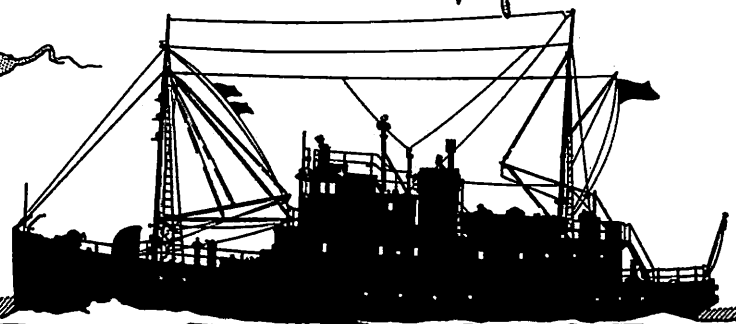
F. A. RICHARDS

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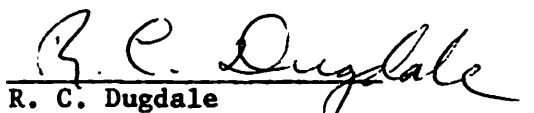
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## ABSTRACT

This report contains the tabulated physical, chemical, and biological data obtained in the northeastern tropical Pacific Ocean during January, February, and March 1968 during Cruise 026 of RV *Thomas G. Thompson*. Designated PONCHO, the cruise was undertaken to investigate the effects of chemical properties on biological and physical processes in a nutrient rich area. The various observations, and methods of collection, and analyses are described.

## ACKNOWLEDGEMENTS

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## INTRODUCTION

The PONCHO Cruise was planned to extend the investigations by the Chemical Oceanography group of the chemistry of low-oxygen environments into oceanic waters and to continue studies on nutrient circulation and productivity relationships in the Northeast Tropical Pacific Ocean. The area chosen for the investigations, the waters off Mexico and Central America, is characterized by an extensive layer of low-oxygen water and a wide range in primary productivity levels. The cruise track, Figure 1, was determined by the requirements of the five major projects: (1) Chemistry of Rising Waters, (2) Chemistry of Trench Waters, (3) Chemistry of Oxygen-Deficient Waters, (4) Origin and Fate of Secondary Nitrite Peak and (5) Nutrient-Productivity Studies. The Costa Rica Dome was studied intensively as a region of upwelling, the Mexico Trench was sampled frequently, sections were made south of Acapulco to identify and follow the development of the low-oxygen and core of high-nitrite water, and productivity measurements were made once daily.

The cruise track was made up of four legs, each terminating at a port. The ranges of each leg are outlined below.

CRUISE LEG	DATES	FULL STATIONS	STD STATIONS	TOTAL MILES
Seattle-Acapulco	3 Jan - 17 Jan	9	5	2670
Acapulco-Puntarenas	20 Jan - 6 Feb	31		2288
Puntarenas-Acapulco	10 Feb - 27 Feb	35		2903
Acapulco-Seattle	1 Mar - 14 Mar	3	5	2660

Emphasis was placed upon rapid reduction and analysis of the cruise data, and extensive use was made of the shipboard IBM 1130 Computer

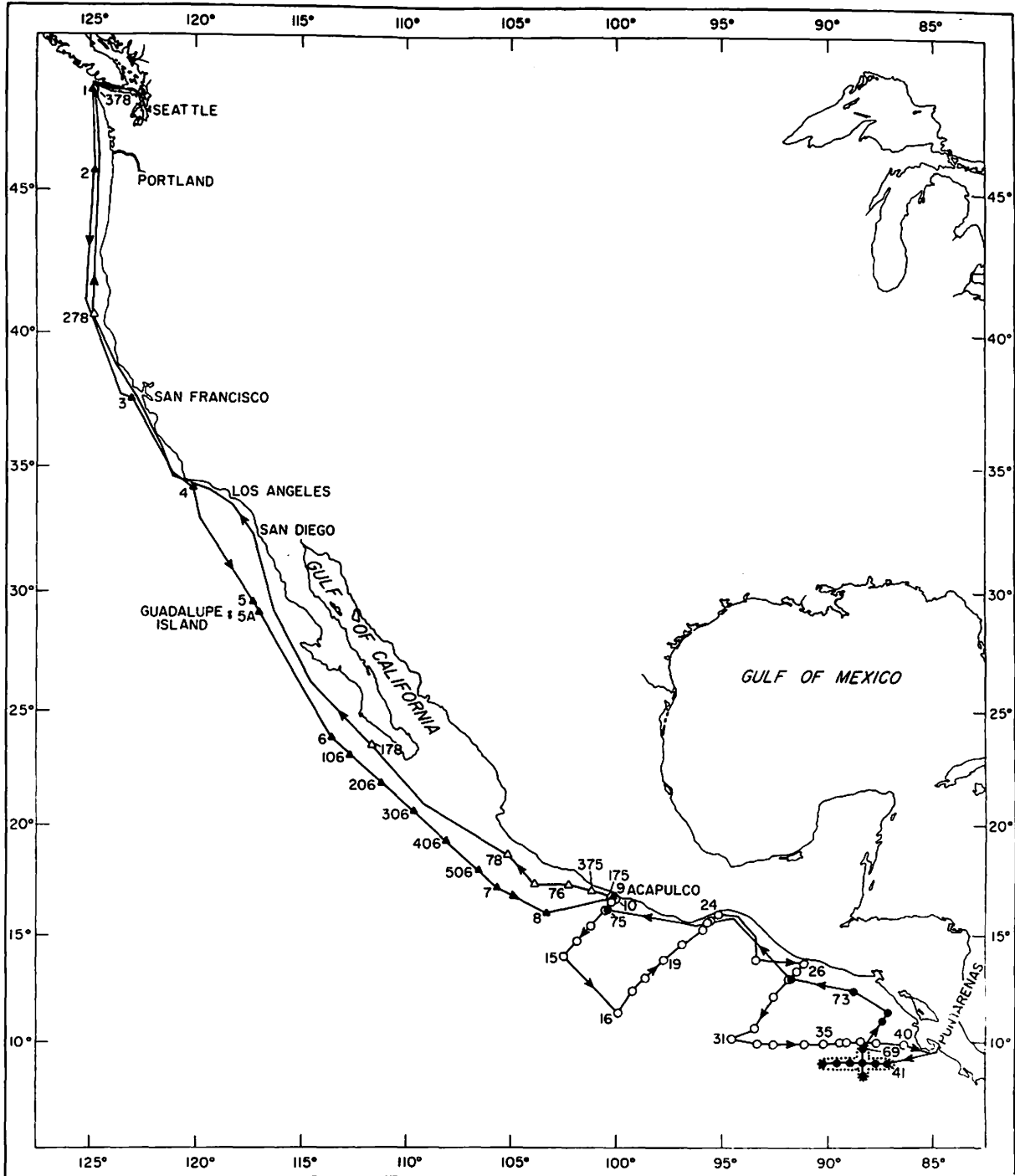


Fig. 1. Thomas G. Thompson Cruise 026, 3 January - 14 March 1968.  
(▲ - Leg I, ○ - Leg II, ● - Leg III, △ - Leg IV.)

and Calcomp plotter. A short course in Fortran programming was conducted on Leg 1 and considerable programming was accomplished onboard by the computer staff and scientific personnel. Routine calculations and a preliminary Chemistry Edit List of the variables measured were made with the computer, usually within 6-12 hours after the end of a station. In addition to this printed output, vertical plots of selected variables and sections were produced on the plotter. Paper tapes punched during routine lowerings of the Bisset-Berman STD unit were read, listed, and plotted by computer.

#### METHODS

Hydrographic casts were made using 5-liter plastic Niskin bottles equipped with reversing thermometers. Large volume samples were collected with 50-liter Pheobe bottles made of P.V.C. and with a 60-liter teflon-lined Bodman sampler made of metal. Sampling depths were determined from wire angle and unprotected reversing thermometer readings. Standard water drawing procedures were used for all chemical samples except pH and micro- $O_2$ . pH samples were collected in citrate bottles normally used for salinity. The water was drawn using Winkler oxygen procedure except that  $CO_2$  samples were sealed with a small bubble to allow for water expansion. Micro- $O_2$  samples were drawn first using a 25 ml syringe to reduce  $O_2$  contamination. A listing of analytical methods, all performed at sea, and their references follows.

A number of parameters were determined routinely throughout the water column at every station. Salinity was measured with a Bissett-Berman STD and with the University of Washington salinometer (Paquette,

1958). Phosphate was determined by the method of Murphy and Riley (1962), and silicate by that of Mullin and Riley (1955). Nitrate, nitrite, and ammonia were analyzed respectively with the methods of Wood *et al.* (1967), Bendschneider and Robinson (1952) and Richards and Kletsch (1964) or for productivity work, Průchazková (1964).

In the oxygen-minimum zone, attention was devoted to careful definition of the zone by precise oxygen determinations. The dissolved oxygen content of waters containing less than 1 ml/l was determined colorimetrically according to the procedure of Broenkow and Cline (1968). In all other waters, the conventional Winkler analysis was used.

Total CO<sub>2</sub> was determined by gas chromatography, using a Fisher gas partitioner, Model 29 equipped with an external gas stripper modified from the design of Swinnerton *et al.* (1962). Alkalinity was measured by the technique of Strickland and Parsons (1968). pH was measured by an unpublished method.

The routine hydrographic data are on file at the National Oceanographic Data Center and at the University of Washington.

## EXPLANATION OF DATA TABLES

The information in the data tables was transcribed directly from IBM cards. The codes used to describe weather, sea conditions, etc., can be found in NODC Publication M-2 (National Oceanographic Data Center, 1964), and the abbreviations and column headings are described below.

### Abbreviations and Headings Used in Data Tables

DATE	Expressed as Greenwich day/month/year.
HOUR	Greenwich mean time to the nearest tenth of an hour of the messenger drop on the first cast
LAT LONG	Latitude and longitude in degrees and minutes; or in degrees, minutes, and tenths of minutes
BARO	In millibars (To obtain barometric pressure, add 900 if this number is above 50 and 1000 if below 50.)
TEMP DRY and TEMP WET	In degrees Celsius
REL HUMID	Relative humidity expressed in percent
WEATHER	State of present weather (Coded in accordance with WMO Code 4501). A preceding X has no significance except to avoid confusion with previously used two-digit codes.)
VISIBILITY	Range of visibility (WMO code 4300)
CLOUD TYPE	Cloud type (WMO code 0500)
CLOUD AMT	Amount of cloud cover (WMO code 2700)
WIND VELOC	Wind velocity in knots
WIND DIREC	Wind direction (from NODC Publication M-2)
WAVE DIREC	Direction from which dominant waves approached (from NODC Publication M-2)
WAVE HEIGHT	Height of dominant waves (WMO code 1555)

WAVE PERIOD	Period of dominant waves (WMO code 3155)
SECCHI	Depth in meters to which a 12-inch (30.5 cm) Secchi disk could be seen on daylight stations
SOUNDING	Depth of water in meters in the station as determined by the ship's echo sounder
CAST	Cast number
DEPTH	Depth in meters from which sample was obtained
TEMP	Temperature in degrees Celsius
SAL	Salinity in parts per thousand (‰)
SIGMA-T	An expression for the density of seawater at atmospheric pressure at the indicated temperature and salinity (To convert sigma-t values to density, divide by 1000 and add 1; thus, sigma-t 22.42 = density 1.02242)
02 (Dissolved oxygen)	
UGAT/L	In microgram-atoms per liter, by the Winkler method in the first column, and by the micro method in the second.
AOU	Apparent oxygen utilization in microgram-atoms per liter ( $\mu\text{gm-atoms/liter}$ )
SATN	Percent of oxygen saturation
PO4	Reactive phosphorus in microgram-atoms per liter ( $\mu\text{g-atoms/liter}$ )
N03	Nitrate-nitrogen in microgram-atoms per liter ( $\mu\text{g-atoms/liter}$ )
SI04	Reactive-silicate in microgram-atoms per liter ( $\mu\text{g-atoms/liter}$ )
N02	Nitrite-nitrogen in microgram-atoms per liter ( $\mu\text{g-atoms/liter}$ )
pH	pH corrected for <i>in situ</i> temperature
ALK	Alkalinity in millequivalents per liter
NH3	Ammonia-nitrogen in microgram-atoms per liter ( $\mu\text{g-atoms/liter}$ )

CO2

Total carbon dioxide as determined directly  
by gas chromatography in millimoles per liter  
(mmole/liter)

\* AND ●

Indicate questionable values

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**PHYSICAL AND CHEMICAL DATA**

T G THOMPSON CRUISE 026 STATION 002 OBSERVED VALUES

DATE 05/01/68	BARO 1030.4	WEATHER X1	WIND VELOC 14	WAVE PERIOD 2
HOUR 17.8	TEMP DRY 9.2	VISIBILITY 8	WIND DIREC 03	SECCHI 13
LAT 45-33.5N	TEMP WET 7.7	CLOUD TYPE 8	WAVE DIREC 34	SOUNDING 600
LONG 124-45.5W	REL HUMID 82	CLOUD AMT 2	WAVE HEIGHT 4	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	3	9.43	32.415	25.05	567		-2	101	0.81	10.42	7.61		
1	10	9.43	32.413	25.05	566		-1	100	0.78	9.54	7.61		
1	25	9.38	32.420	25.06	567		-2	100	0.68	6.65	3.91		
1	100	8.38	32.499	25.28	302		276	52	1.83	32.50	25.00		
1	251	6.65	33.677	26.45	198		399	33	2.29	51.45	28.78		

T G THOMPSON CRUISE 026 STATION 003 OBSERVED VALUES

DATE 07/01/68	BARO 1023.5	WEATHER X1	WIND VELOC 06	WAVE PERIOD 2
HOUR 22.2	TEMP DRY 8.9	VISIBILITY 7	WIND DIREC 10	SECCHI 17
LAT 37-32.5N	TEMP WET 7.7	CLOUD TYPE 2	WAVE DIREC 03	SOUNDING 100
LONG 122-56.0W	REL HUMID 85	CLOUD AMT 2	WAVE HEIGHT 0	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	1	11.84	33.417	25.41	530		1	100	0.58	5.65	4.83		8.37
1	10	11.80	33.423	25.42	531		1	100	0.60	6.27	4.83		8.37
1	11	11.82	33.422	25.42	532		0	100	0.60	6.78	4.92		8.36
1	59	10.39	33.600	25.81	349		199	64	1.54	21.71	18.07		8.27
1	89	9.75	33.699	26.00	314		241	57	1.62	25.98	20.97		8.15

T G THOMPSON CRUISE 026 STATION 003 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	1		2.38	
1	10		2.36	
1	11		2.39	
1	59		2.38	
1	89		2.44	

T G THOMPSON CRUISE 026 STATION 004 OBSERVED VALUES

DATE	09/01/68	BARO	1020.0	WEATHER	X2	WIND VELOC	02	WAVE PERIOD	2
HOUR	2.1	TEMP DRY	12.9	VISIBILITY	7	WIND DIREC	09	SECCHI	
LAT	34-13.3N	TEMP WET	10.8	CLOUD TYPE	2	WAVE DIREC	00	SOUNDING	571
LONG	120-02.6W	REL HUMID	77	CLOUD AMT	7	WAVE HEIGHT	0		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	1	13.51	33.386	25.06	554		-40	108	0.35	2.76	0.79	0.05	8.39
1	25	13.22	33.383	25.12	521		-4	101	0.51	3.39	1.73	0.12	8.37
1	26	13.22	33.385	25.12	520		-4	101	0.45	3.01	1.52	0.12	
1	76	10.88	33.492	25.64	387		154	72	2.40	14.56	14.13	0.03	
1	151	9.82	33.884	26.13	261		293	47	1.99	27.86	21.70	0.02	8.05
1	152	9.81	33.888	26.14	265		289	48	1.86	27.74	21.91	0.02	
1	302	8.00	34.158	26.63	103		473	18	2.73	54.84	31.41	0.02	
1	503	6.44	34.250	26.92	19		578	3	3.48	101.03	26.67	0.01	7.75
1	568	6.39	34.253	26.93	31		567	5	3.90	119.73	16.66	0.02	7.72
1	569	6.40	34.256	26.94	14		583	2	4.02	118.85	16.83	0.02	

T G THOMPSON CRUISE 026 STATION 004 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	1		2.38	
1	25		2.28	
1	26			
1	76			
1	151		2.38	
1	152			
1	302	0.00		
1	503	0.06	2.47	
1	568	1.06	2.47	
1	569	0.31		

T G THOMPSON CRUISE 026

STATION 005

OBSERVED VALUES

DATE 10/01/68  
 HOUR 17.3  
 LAT 29-32.0N  
 LONG 117-16.0W

BARO 1018.4  
 TEMP DRY 16.1  
 TEMP WET 15.5  
 REL HUMID 94

WEATHER X1  
 VISIBILITY 7  
 CLOUD TYPE 3  
 CLOUD AMT 6

WIND VELOC 02  
 WIND DIREC 30  
 WAVE DIREC 30  
 WAVE HEIGHT 1

WAVE PERIOD 3  
 SECCHI 34  
 SOUNDING 519

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	1	16.62	33.605	24.55	500		-17	104	0.31	0.88	0.00	0.01	8.40
1	10	16.62	33.601	24.55	503		-20	104	0.26	0.75	0.07	0.00	8.43
1	20	16.64	33.603	24.55	503		-21	105	0.24	0.88	0.00	0.00	8.40
1	40	16.60	33.594	24.55	500		-18	104	0.25	0.38	0.02	0.00	8.40
1	70	14.85	33.410	24.80	516		-16	103	0.37	2.89	0.52	0.07	8.38
1	101	11.50	33.333	25.41	461		74	86	0.90	8.03	8.68	0.02	8.30
1	201	9.03	34.151	26.47	278		284	49	1.84	30.75	26.93	0.00	8.07
1	302	7.64	34.148	26.68	154		427	26	2.49	51.08	31.98	0.00	7.94
1	403	6.74											
1	514	6.25	34.333	27.02	29		571	5	3.12	78.44	41.43	0.00	7.78

T G THOMPSON CRUISE 026 STATION 005 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	1	0.93		
1	10	0.81		
1	20	0.15		
1	40	0.40		
1	70	0.58		
1	101	0.37		
1	201	1.01		
1	302	0.11		
1	403			
1	514	0.13		

T G THOMPSON CRUISE 026 STATION 006 OBSERVED VALUES

DATE 12/01/68	BARO 1019.0	WEATHER X1	WIND VELOC 02	WAVE PERIOD 2
HOUR 17.5	TEMP DRY 20.1	VISIBILITY 8	WIND DIREC 04	SECCHI 30
LAT 23-43.0N	TEMP WET 17.5	CLOUD TYPE 2	WAVE DIREC 31	SOUNDING 3242
LONG 113-30.0W	REL HUMID 77	CLOUD AMT 1	WAVE HEIGHT 2	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	1	21.66	34.504	23.96	444		-6	102	0.31	1.00	0.03	0.17	8.42
1	10	21.60	34.492	23.96	441		-3	101	0.32	1.38	0.03	0.00	8.43
1	25	21.60	34.499	23.97	444		-5	101	0.31	0.25	0.18	0.06	8.42
1	76	15.57	33.732	24.89	443		48	90	0.59	4.02	1.88	0.38	8.35
1	604	6.65	34.487	27.08	15		578	3	3.17	78.06	38.03	0.06	7.82

T G THOMPSON CRUISE 026

STATION 006

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	1	0.75		
1	10	0.39		
1	25	0.15		
1	76	0.00		
1	604	0.00		

T G THOMPSON CRUISE 026 STATION 007 OBSERVED VALUES

DATE	15/01/68	BARO	1012.4	WEATHER	X1	WIND VELOC	05	WAVE PERIOD	2
HOUR	14.5	TEMP DRY	24.0	VISIBILITY	9	WIND DIREC	01	SECCHI	11
LAT	17-08.0N	TEMP WET	21.7	CLOUD TYPE	8	WAVE DIREC	30	SOUNDING	3164
LONG	105-39.0W	REL HUMID	82	CLOUD AMT	3	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	S104 UGAT/L	N03 UGAT/L	N02 UGAT/L	PH
1	0	26.13	34.008	22.27	416		-7	102	0.26	0.88	0.75	0.22	8.28
1	10	26.10	34.014	22.28	414		-5	102	0.23	0.88	0.14	0.11	
1	11	26.09											
1	25	26.11	34.009	22.27	417		-8	102	0.17	0.63	2.50	0.15	8.27
1	50		34.277		425				0.28	1.25	2.05	0.05	
1	75	19.48	34.344	24.42	324	114.96	131	71	0.87	5.52	5.27	0.79	
1	100	15.70	34.461	25.42	111	78.41	376	23	1.98	17.32	21.61	0.07	7.67
1	101	15.56											
1	150	12.96	34.776	26.25	16	0.34	497	3	2.60	29.24	25.38	1.49	
1	201	12.03	34.784	26.43	11	0.85	513	2	2.64	33.51	23.50	2.58	7.77
2	246	11.48	34.761	26.52	21	1.19	509	4	2.70	35.64	22.93	2.35	7.70
2	294	10.68	34.714	26.63	18	0.51	521	3	2.86	40.41	23.47	1.63	7.67
2	394	9.10	34.624	26.83	15	1.02	545	3	3.07	52.46	27.92	0.62	7.67
2	495	7.79	34.572	26.99	9	1.19	568	2	3.26	65.89	32.51	0.44	7.62
2	594	6.80	34.551	27.11	21	1.61	569	4	3.36	74.17	36.57	0.07	7.60
2	795	5.45	34.533	27.27	13	2.63	597	2	3.43	92.37	41.88	0.01	
2	997	4.39	34.561	27.42	50	18.70	576	8	3.50	107.55	43.77	0.01	
2	1199	3.75	34.580	27.50	54	41.44	583	8	3.32	122.99	43.65	0.01	
2	1404	3.21	34.595	27.56	89		557	14	3.29	128.39	41.47	0.00	7.67
2	1706	2.59	34.633	27.65	144		512	22	3.11	142.32	41.39	0.01	

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T G THOMPSON CRUISE 026 STATION 007 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	0.00	2.46	2.01
1	10	0.13		
1	11			
1	25	0.27	2.40	2.02
1	50	0.48		
1	75	0.62		
1	100	0.26	2.42	2.31
1	101			
1	150			
1	201		2.48	2.33
2	246	0.00	2.43	2.41
2	294		2.44	2.41
2	394		2.44	2.49
2	495	0.00	2.44	2.45
2	594		2.44	2.48
2	795	0.15		
2	997			2.52
2	1199	0.01		
2	1404		2.49	2.54
2	1706	0.15		

T G THOMPSON CRUISE 026 STATION 008 OBSERVED VALUES

DATE	16/01/68	BARO	1012.5	WEATHER	X1	WIND VELOC	03	WAVE PERIOD	3
HOUR	13.4	TEMP DRY	25.6	VISIBILITY	9	WIND DIREC	05	SECCHI	41
LAT	16-05.0N	TEMP WET	25.4	CLOUD TYPE	8	WAVE DIREC	34	SOUNDING	0
LONG	103-22.0W	REL HUMID	98	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
2	0	27.81	33.989	21.72	413		-15	104	0.16	1.25	0.05	0.00	8.04
2	10	27.72	33.985	21.75	414		-15	104	0.16	0.75	0.00	0.05	
2	25	27.70	33.986	21.75	412		-14	104	0.15	0.75	0.07	0.02	8.03
2	50		34.264		418				0.19	1.38	0.03	0.01	
2	76	19.27	34.384	24.50	262	111.01	194	57	1.17	8.16	9.93	0.71	7.80
2	101	15.32	34.576	25.59	49	32.38	442	10	2.30	20.33	25.95	0.06	7.53
2	151	12.82	34.796	26.29	11	0.89	504	2	2.59	29.24	25.52	2.02	
2	201	11.74	34.784	26.49	15	2.42	512	3	2.65	33.13	25.66	1.84	7.44
1	252	11.31	34.763	26.55	12	0.68	520	2	2.78	34.76	24.99	1.92	7.44
1	298	10.66	34.724	26.64	12	1.23	528	2	2.81	39.53	23.58	1.56	7.43
1	397	9.10	34.633	26.83	11	1.87	548	2	3.05	51.96	28.16	0.63	7.40
1	497	7.85	34.583	26.99	11	1.36	565	2	3.19	64.26	31.58	0.57	7.40
1	596	6.72	34.553	27.13	11	0.85	581	2	3.41	75.93	37.45	0.03	7.46
1	797	5.50	34.554	27.28	11	2.89	599	2	3.41	91.49	41.83	0.02	
1	1000	4.51	34.558	27.40	32	12.45	593	5	3.49	107.68	43.77	0.01	
1	1202	3.70	34.579	27.50	61	36.00	577	10	3.36	125.25	42.94	0.00	
1	1405	3.12	34.599	27.58	96		552	15	3.23	136.29	41.46	0.01	7.41
1	1707	2.59	34.626	27.64	148		508	23	3.08	145.58	41.38	0.01	

T G THOMPSON CRUISE 026

STATION 008

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
2	0	0.63	2.38	2.14
2	10	0.25		
2	25	0.29	2.38	2.12
2	50	0.41	2.40	2.18
2	76	0.00	2.40	2.37
2	101	0.24	2.42	2.49
2	151	0.00		
2	201	0.00	2.43	2.56
1	252	0.00	2.43	2.53
1	298	0.00	2.43	2.54
1	397	0.03	2.43	2.60
1	497	0.00	2.44	2.61
1	596	0.00	2.52	2.64
1	797	0.10		
1	1000	0.23		2.62
1	1202	0.08		
1	1405	0.53	2.49	2.66
1	1707	0.23		

T G THOMPSON CRUISE 026

STATION 009

OBSERVED VALUES

DATE 17/12/68  
 HOUR 13.5  
 LAT 16-44.5N  
 LONG 100-09.2W

BARO 1013.2  
 TEMP DRY 26.1  
 TEMP WET 25.3  
 REL HUMID 94

WEATHER X0  
 VISIBILITY 8  
 CLOUD TYPE  
 CLOUD AMT

WIND VELOC 03  
 WIND DIREC 36  
 WAVE DIREC 34  
 WAVE HEIGHT 1

WAVE PERIOD 2  
 SECCHI 33  
 SOUNDING 924

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.61	34.091	21.86	414		-15	104	0.25	2.76	0.25	0.00	
1	48	20.09	34.470	24.35	198		251	44	1.45	11.42	12.76	0.78	
1	95	14.25	34.947	26.03	17	1.83	483	3	2.44	25.60	28.72	0.02	
1	118		34.845		10				2.43	27.48	30.82	0.02	
1	141	12.90	34.836	26.30	16		498	3	2.46	29.74	28.18	0.74	
1	186	12.38	34.820	26.39	14	1.53	506	3	2.45	30.37	30.28	0.23	
1	234	11.87	34.815	26.49	14		511	3	2.55	32.88	30.34	0.25	
1	281	11.24	34.738	26.55	13	1.61	520	2	2.63	35.89	28.20	0.89	
1	376	10.34	34.718	26.69	12	1.70	532	2	2.77	42.04	25.77	1.18	
1	471	8.64	34.627	26.90	18	1.36	548	3	3.04	57.48	28.70	0.89	
1	869	4.80	34.559	27.37	28		592	5	3.36	103.41	44.16	0.00	

T G THOMPSON CRUISE 026 STATION 009 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	2.27		
1	48	0.17		
1	95	0.66		
1	118	0.22		
1	141	0.00		
1	186	0.09		
1	234	1.31		
1	281	0.09		
1	376	0.44		
1	471	0.44		
1	869	1.58		

T G THOMPSON CRUISE 026 STATION 010 OBSERVED VALUES

DATE	20/01/68	BARO	1010.2	WEATHER	X0	WIND VELOC	03	WAVE PERIOD	3
HOUR	21.1	TEMP DRY	28.4	VISIBILITY	8	WIND DIREC	27	SECCHI	22
LAT	16-45.0N	TEMP WET	25.3	CLOUD TYPE		WAVE DIREC	19	SOUNDING	217
LONG	099-56.0W	REL HUMID	78	CLOUD AMT	0	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.65	34.055	21.82	440		-41	111	0.21	2.51	0.14	0.01	8.40
1	10	27.34	34.041	21.91	431		-30	108	0.21	3.14	0.19	0.00	8.39
1	25	26.77	33.952	22.03	457		-52	113	0.25	1.88	0.19	0.01	
1	50	23.15	34.179	23.29	325		102	76	1.04	7.40	9.73	1.21	
1	76	19.61	34.430	24.45	168	102.25	285	37	1.59	15.31	21.04	0.14	8.05
1	101	14.36	34.802	25.98	14	4.72	485	3	2.37	26.48	30.10	0.03	
1	126	13.41	34.847	26.21	9	1.78	499	2	2.43	26.61	29.94	0.02	7.89
1	151	12.86	34.848	26.32	21	8.12	493	4	2.43	28.11	31.19	0.03	
1	206	11.94	34.802	26.47	10		515	2	2.52	32.38	30.41	0.14	7.87

T G THOMPSON CRUISE 026 STATION 011 OBSERVED VALUES

DATE	21/01/68	BARO	1011.2	WEATHER	X0	WIND VELOC	10	WAVE PERIOD	2
HOUR	2.1	TEMP DRY	27.2	VISIBILITY	8	WIND DIREC	32	SECCHI	
LAT	16-33.0N	TEMP WET	25.2	CLOUD TYPE	X	WAVE DIREC	32	SOUNDING	2377
LONG	100-10.5W	REL HUMID	85	CLOUD AMT	9	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	28.14	34.004	21.62	414		-18	105	0.45	0.63	0.16	0.01	8.29
1	49	20.90	34.363	24.06	144		299	33	1.57	11.42	12.36	0.08	
1	99	14.78	34.824	25.90	17	3.23	478	3	2.62	23.97	29.46	0.04	7.78
1	149	12.86	34.841	26.32	18	1.27	496	4	2.48	28.24	30.07	0.27	
1	198	12.25	34.832	26.43	11	1.06	510	2	2.50	30.75	31.07	0.02	7.75
1	248	11.56	34.783	26.52	10	1.10	519	2	2.55	33.01	31.16	0.02	
1	299	10.75	34.739	26.64	15	1.02	524	3	2.71	37.90	27.49	1.18	7.71
1	401	9.35	34.661	26.82	11	0.89	545	2	3.23	49.82	26.74	1.17	7.73
1	501	8.06	34.597	26.97	5	3.02	568	1	3.11	63.00	30.91	0.78	
1	649	6.46	34.563	27.17	6	2.72	590	1	3.25	76.43	39.16	0.00	

T G THOMPSON CRUISE 026 STATION 012 OBSERVED VALUES

DATE	21/01/68	BARO	1012.0	WEATHER	X0	WIND VELOC	05	WAVE PERIOD	2
HOUR	5.9	TEMP DRY	27.8	VISIBILITY	8	WIND DIREC	33	SECCHI	
LAT	16-18.0N	TEMP WET	25.0	CLOUD TYPE		WAVE DIREC	33	SOUNDING	4645
LONG	100-25.0W	REL HUMID	80	CLOUD AMT	0	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.61	34.051	21.83	420		-21	106	0.19	0.75	0.19	0.02	8.28
1	50	18.78	34.531	24.74	138		322	30	1.61	11.92	18.54	0.84	
1	101	13.48	34.842	26.19	9	0.59	499	2	2.55	25.23	30.29	0.05	7.77
1	151	12.71	34.845	26.35	9	1.06	507	2	2.50	27.61	31.93	0.01	
1	201	12.03	34.807	26.45	14		509	3	2.35	29.49	28.69	0.09	7.74
1	252	11.47	34.778	26.54	9	0.55	522	2	2.39	32.88	28.80	0.07	
1	302	10.89	34.748	26.62	11	1.27	526	2	2.54	37.15	23.89	1.42	7.69
1	403	9.59	34.666	26.78	11	0.42	542	2	2.92	46.81	24.12	1.06	7.68
1	503	7.87	34.593	26.99	11	0.42	564	2	3.08	62.25	32.10	0.68	
1	655	6.57	34.565	27.16	9	2.42*	585	2	3.98*	75.17	37.69	0.13	
2	694	6.35	34.561	27.18	9	0.55	589	1	3.24	78.56	37.62	0.20	7.63
2	794	5.65	34.557	27.27	9	1.27	598	2	3.33	86.72	41.18	0.00	7.63
2	894	5.03	34.555	27.34	13	5.06	603	2	3.30	96.63	43.12	0.08	7.62
2	994	4.61	34.555	27.39	27	9.56	596	4	3.32	102.28	45.53	0.06	7.62

T G THOMPSON CRUISE 026 STATION 013 OBSERVED VALUES

DATE 21/01/68 BARO 1012.4 WEATHER X1 WIND VELOC 02 WAVE PERIOD 2  
 HOUR 18.0 TEMP DRY 28.5 VISIBILITY 8 WIND DIREC 04 SECCHI 33  
 LAT 15-26.0N TEMP WET 25.8 CLOUD TYPE 0 WAVE DIREC 30 SOUNDING 3400  
 LONG 101-09.0W REL HUMID 81 CLOUD AMT 1 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.72	34.253	21.95	419		-21	106	0.15	0.50	0.20	0.01	8.30
1	49	18.50	34.518	24.80	125		337	27	1.68	11.92	13.01	0.31	7.95
1	97	13.50	34.827	26.18	4	0.08	504	1	2.48	25.98	28.38	1.09	7.76
1	146	12.53	34.835	26.38	4	0.81	514	1	2.47	27.61	21.38*	0.14	
1	195	12.05	34.805	26.45	4	0.17	519	1	2.48	31.00	31.02	0.03	7.70
1	243	11.57	34.785	26.52	4	0.21	525	1	2.54	33.13	31.10	0.08	
2	274	11.35	34.771	26.55	13	0.21	519	2	2.63	33.13	30.10	0.41	7.77
2	368	10.14	34.699	26.71	15	0.25	531	3	2.86	43.05	25.62	1.12	
2	463	8.68	34.623	26.89	16	0.51	549	3	3.12	55.97	28.63	0.83	7.70
2	557	7.48	34.581	27.04	7	0.00	574	1	3.19	65.39	33.00	0.71	
2	652	6.65	34.560	27.14	9	1.15	584	1	3.31	76.30	37.06	0.17	
2	748	5.91	34.549	27.23	11	0.81	592	2	3.35	82.20	40.72	0.00	7.65
2	846	5.40	34.553	27.30	14	2.34	597	2	3.54	89.10	43.11	0.00	
2	945	4.81	34.558	27.37	18	7.31	603	3	3.41	97.89	43.78	0.00	7.72

T G THOMPSON CRUISE 026 STATION 013 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.41	2.13
1	49		2.41	2.43
1	97		2.43	2.47
1	146			
1	195		2.42	2.55
1	243			
2	274		2.42	2.57
2	368			
2	463		2.44	2.61
2	557			
2	652			
2	748		2.44	2.67
2	846			
2	945		2.46	2.63

T G THOMPSON CRUISE 026 STATION 014 OBSERVED VALUES

DATE	22/01/68	BARO	1011.5	WEATHER	X0	WIND VELOC	02	WAVE PERIOD	2
HOUR	1.8	TEMP DRY	27.3	VISIBILITY	8	WIND DIREC	31	SECCHI	
LAT	14-46.0N	TEMP WET	23.6	CLOUD TYPE	X	WAVE DIREC	31	SOUNDING	3296
LONG	101-49.0W	REL HUMID	73	CLOUD AMT	9	WAVE HEIGHT	0		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	28.65	33.958	21.42	412		-19	105	0.36	1.13	0.26	0.00	8.34
1	50	27.75	33.972	21.73	412		-13	104	0.17	1.38	0.77	0.03	8.34
1	101	16.03	34.733	25.55	5	0.93	478	1	2.52	21.08	30.40	0.15	
1	151	13.13	34.819	26.24	9	0.08	503	2	2.47	28.74	27.72	1.97	
1	201	12.21	34.823	26.43	4	0.55	517	1	2.69	30.87	30.86	0.24	7.80
1	252	11.61	34.786	26.52	4	1.02	524	1	2.57	33.51	29.57	0.69	
2	284	11.26	34.769	26.57	3	1.02	530	1	2.58	35.64	27.26	1.58	7.78
2	380	10.13	34.674	26.69	6	0.68	541	1	2.92	46.81	25.82	0.91	
2	477	8.47	34.609	26.92	4	0.55	563	1	3.24	59.24	30.20	0.78	
2	572	7.29	34.575	27.06	6	1.02	577	1	3.25	71.53	34.84	0.72	
2	669	6.33	34.552	27.18	4	1.74	593	1	3.35	78.44	40.76	0.00	7.69
2	767	5.71	34.552	27.26	1	2.12	605	0	3.45	87.22	41.01	0.00	
2	863	5.19	34.556	27.32	4	3.70	610	1	3.59	93.75	44.11	0.01	
2	960	4.77	34.556	27.37	11	8.50	610	2	3.65	100.27	45.05	0.00	7.71

T G THOMPSON CRUISE 026 STATION 015 OBSERVED VALUES

DATE 22/01/68	BARO 1012.5	WEATHER X0	WIND VELOC 03	WAVE PERIOD 2
HOUR 13.6	TEMP DRY 27.2	VISIBILITY 8	WIND DIREC 03	SECCHI
LAT 14-03.0N	TEMP WET 24.3	CLOUD TYPE	WAVE DIREC 33	SOUNDING 3200
LONG 102-12.0W	REL HUMID 79	CLOUD AMT 0	WAVE HEIGHT 2	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	28.11	33.895	21.55	418		-21	106	0.50	1.51	0.04	0.02	8.27
1	5	27.98	33.896	21.59	414		-17	105	0.25	1.63	0.11	0.00	8.35
1	10	27.98	33.894	21.59	418		-20	105	0.21	0.75	0.13	0.01	
1	25	27.98	33.892	21.59					0.22	1.76	0.06	0.01	8.32
1	50	27.95	33.889	21.60	408		-11	103	0.31	1.76	0.92	0.05	8.33
1	60		33.825		354				0.46	1.38		1.83	
1	86	22.91	34.083	23.29	288	112.79*	141	67	1.31	8.16	3.52	0.09	8.12
1	111	20.38	34.270	24.12	218	127.67*	229	49	1.63	12.30	15.47	0.04	8.04
1	151	14.74	34.776	25.87	7	1.06	488	1	2.53	23.72	53.82*	0.09	7.83
1	176		34.827		5				2.54	27.48	31.15	0.37	
1	201	12.63	34.838	26.36	15	0.98	502	3	2.47	28.11	32.54	0.03	7.77
2	206	12.60	34.832	26.36	16		502	3	2.43	27.86	32.10	0.05	
2	228	12.23	34.816	26.42	14	0.17	507	3	2.63	30.37	31.80	0.26	7.78
2	251	12.00	34.803	26.45	12		512	2	2.54	30.50	31.91	0.03	7.77
2	274	11.73	34.794	26.50	10	0.17	517	2	2.58	31.37	31.99	0.07	7.73
2	297	11.53	34.776	26.52	9		520	2	2.57	32.88	30.58	0.35	
2	321	11.25	34.762	26.56	11	0.21	522	2	2.72	34.14	29.68	0.79	7.76
2	345	10.76	34.737	26.63	11		528	2	2.73	37.02	25.88	1.74	
2	367	10.35	34.712	26.69	14	1.02	529	3	2.79	40.79	23.91	1.32	7.72
2	414	9.46	34.662	26.80	21		533	4	2.92	48.19	28.49	1.06	
2	461	8.66	34.623	26.90	13	0.98	552	2	3.12	54.34	28.74	0.89	7.70
3	582	7.16	34.567	27.08	12	0.42	574	2	3.26	69.65	34.70	0.48	7.68
3	675	6.32	34.553	27.18	16	0.85	582	3	3.36	77.68	39.03	0.01	
3	771	5.68	34.547	27.26	16	1.57	592	3	3.51	83.46	41.50	0.02	7.64
3	865	5.21	34.545	27.31	16		598	3	3.43	92.74	43.64	0.02	
3	960	4.67	34.553	27.38	35	12.96	587	6	3.49	98.77	44.77	0.02	7.66
3	1150	3.99	34.569	27.47	52	31.19	581	8	3.45	110.94	44.83	0.01	
3	1441	3.17	34.591	27.57	97	68.51	550	15	3.28	137.80	43.27	0.01	7.72
3	1927	2.30	34.636	27.68	176		485	27	3.01	143.70	40.09	0.00	
3	2936	1.87	34.666	27.74	228		441	34	2.81	150.85	39.07	0.01	7.85
3	3136	1.85	34.665	27.74	226		443	34	2.78	148.34	38.44	0.01	7.88

T G THOMPSON CRUISE 026 STATION 015 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	1.24	2.38	2.18
1	5	0.79		
1	10	0.72		
1	25	0.66	2.38	2.18
1	50	0.85	2.38	2.18
1	60	0.00		
1	86	0.47	2.36	2.35
1	111	0.38	2.44	2.40
1	151	0.52	2.44	2.56
1	176	0.16		
1	201	0.35	2.43	2.62
2	206	0.32		
2	228	0.28		
2	251	0.34		
2	274	0.94	2.43	2.59
2	297	0.44		
2	321	0.00		
2	345	0.00		
2	367	0.00	2.44	2.65
2	414	0.00		
2	461	0.07	2.46	2.70
3	582	0.43		
3	675	0.39		
3	771	0.63	2.48	2.72
3	865	0.66		
3	960	0.36	2.49	2.76
3	1150	0.90		
3	1441	0.65	2.51	2.80
3	1927	0.81		
3	2936	0.51	2.56	2.73
3	3136	0.20		

T G THOMPSON CRUISE 026 STATION 016 OBSERVED VALUES

DATE 24/01/68 BARO 1011.9 WEATHER X1 WIND VELOC 16 WAVE PERIOD 2  
 HOUR 14.5 TEMP DRY 26.7 VISIBILITY 9 WIND DIREC 12 SECCHI 04  
 LAT 11-25.0N TEMP WET 26.3 CLOUD TYPE 1 WAVE DIREC 09 SOUNDING 3200  
 LONG 099-52.0W REL HUMID 97 CLOUD AMT 2 WAVE HEIGHT 3

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.53	33.974	22.43	465		-52	113	0.50	4.27	0.28	0.09	8.33
1	10	25.50	33.973	22.44	468		-55	114	0.45	3.89	0.43	0.07	8.33
1	20	24.01	34.115	22.99	408		13	97	0.75	2.89	5.83	0.54	
1	30	23.17	34.139	23.25	368		59	86	0.91	3.76	8.40	0.39	8.21
1	40	22.92	34.177	23.35	313		115	73	0.98	4.27	9.66	0.30	
1	50		34.202		326				1.06	7.03	10.46	0.26	
1	76	14.46	34.813	25.96	10		488	2	2.40	23.84	30.37	0.14	7.80
1	101	13.11	34.847	26.27	26		486	5	2.31	24.72	31.53	0.07	
1	126	12.78	34.853	26.34	29	14.79	486	6	2.35	25.60	33.29	0.12	7.83
1	151	12.42	34.847	26.41	28	13.56	491	5	2.36	27.74	33.39	0.06	
2	193	11.93	34.809	26.47	25	14.02	500	5	2.42	29.74	33.41	0.00	7.80
2	240	11.12	34.766	26.59	58	22.52	476	11	2.46	30.75	33.43	0.02	
2	286	10.72	34.747	26.65	41	12.62	498	8	2.61	34.76	33.37	0.08	
2	332	10.28	34.727	26.71	28	11.60	516	5	2.63	36.65	33.22	0.06	
2	379	9.78	34.696	26.77	25	3.95	526	5	2.77	41.04	33.03	0.04	
2	474	8.37	34.619	26.94	19	2.12	550	3	3.03	56.47	32.90	0.17	7.72
2	571	7.31	34.595	27.08	14	0.93	570	2	3.20	67.27	35.74	0.27	
2	667	6.49	34.578	27.18	14	2.29	581	2	3.27	74.55	39.37	0.00	
2	764	5.71	34.562	27.26	20	3.23	587	3	3.39	86.47	45.14	0.03	
2	861	5.05	34.560	27.34	28	10.07	588	5	3.39	94.63	44.68	0.03	7.67
2	989	4.70	34.578	27.40	38		584	6	3.40	99.65	45.31	0.11	

T G THOMPSON CRUISE 026

STATION 016

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	2.15	2.40	2.10
1	10	1.28	2.37	2.13
1	20	1.21		
1	30	1.55	2.38	2.15
1	40	1.72		
1	50	2.15		
1	76	0.02	2.41	2.46
1	101	0.45		
1	126	0.70	2.42	2.47
1	151	0.74		
2	193	0.72	2.42	2.52
2	240	0.82		
2	286	0.81		
2	332	0.27		
2	379	0.64		
2	474	0.67	2.43	2.52
2	571	0.45		
2	667	0.40		
2	764	0.42		
2	861	0.56	2.47	2.62
2	989	0.50		

T G THOMPSON CRUISE 026 STATION 017 OBSERVED VALUES

DATE	25/01/68	BARO	1011.4	WEATHER	X1	WIND VELOC	09	WAVE PERIOD	2
HOUR	2.8	TEMP DRY	26.7	VISIBILITY	8	WIND DIREC	06	SECCHI	
LAT	12-28.0N	TEMP WET	23.8	CLOUD TYPE	X	WAVE DIREC	03	SOUNDING	3054
LONG	099-17.0W	REL HUMID	78	CLOUD AMT	9	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.02	34.178	22.11	423		-21	105	0.41	1.13	0.39	0.08	8.31
1	10	26.92	34.167	22.14	422		-19	105	0.62	0.63	0.53	0.05	8.31
1	20	26.64	34.138	22.21	425		-20	105	0.38	0.38	0.11	0.06	
1	30	26.38	34.146	22.29	425		-19	105	0.35	1.63	1.11	0.19	8.30
1	40	26.09	34.127	22.37	416		-8	102	0.43	1.38	2.17	0.27	
1	50		34.120		418				0.51	1.38	2.33	0.41	
1	75	23.05	34.112	23.27	309		119	72	1.67	7.40	12.71	0.49	8.13
1	100	14.28	34.802	25.99	24		476	5	2.40	23.34	31.10	0.08	
1	125	13.40	34.859	26.22	26		482	5	2.34	23.84	31.16	0.02	7.85
1	150	12.87	34.850	26.32	20	13.81	494	4	2.35	25.60	31.46	0.01	
2	196	12.42	34.829	26.39	14	15.77	505	3	2.39	28.11	31.51	0.01	7.84
2	246	11.81	34.799	26.49	42	17.98	484	8	2.45	30.75	31.42	0.01	
2	295	11.22	34.766	26.57	28	14.11	505	5	2.63	31.88	32.81	0.01	7.79
2	344	10.58	34.731	26.66	29	17.98	512	5	2.83	32.50	32.89	0.01	
2	393	10.10	34.705	26.72	16	6.33	531	3	2.84	39.28	32.02	0.00	
2	492	8.52	34.618	26.92	15	1.40	552	3	3.18	50.45	32.32	0.29	7.72
2	591	7.42	34.589	27.06	13	1.53	569	2	3.40	66.01	34.21	0.76	
2	691	6.60	34.564	27.15	15	1.74	579	3	3.41	73.42	37.00	0.02	
2	791	5.91	34.556	27.23	13	1.78	590	2	3.46	83.71	42.57	0.00	
2	991	4.56	34.558	27.40	18	13.64	607	3	3.51	105.42	45.63	0.00	7.79

T G THOMPSON CRUISE 026 STATION 018 OBSERVED VALUES

DATE 25/01/68  
 HOUR 14.4  
 LAT 13-09.0N  
 LONG 098-32.0W

BARO 1010.1  
 TEMP DRY 28.6  
 TEMP WET 26.4  
 REL HUMID 84

WEATHER X1  
 VISIBILITY 8  
 CLOUD TYPE 1  
 CLOUD AMT 2

WIND VELOC 09  
 WIND DIREC 12  
 WAVE DIREC 08  
 WAVE HEIGHT 3

WAVE PERIOD 2  
 SECCHI 29  
 SOUNDING 3292

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	28.41	34.077	21.59	412		-18	105	0.49	1.88	0.19	0.03	8.32
1	10	28.18	34.076	21.66	408		-12	103	0.20	0.88	0.38	0.02	
1	20	28.16	34.092	21.68	415		-20	105	0.16	1.25	1.11	0.02	
1	30	27.79	34.216	21.89	412		-14	104	0.33	2.01	0.57	0.02	8.32
1	40	25.65	34.046	22.45	368		42	90	0.64	2.64	3.93	1.63	
1	50		34.129		251				1.19	7.53	12.97	0.74	
1	75	16.55	34.665	25.38	36	23.88	442	8	2.37	20.08	28.54	0.08	7.82
1	101	13.75	34.840	26.13	14	1.78	491	3	2.54	25.48	29.74	0.18	
1	126	13.38	34.856	26.22	11	2.00	498	2	2.52	26.48	30.34	0.13	7.79
1	151	13.14	34.862	26.28	14	1.70	497	3	2.42	27.11	31.57	0.07	
2	214	11.97	34.800	26.46	9	3.06*	515	2	2.54	30.75	32.80	0.02	7.76
2	263	11.45	34.779	26.54	21	1.23	509	4	2.63	33.01	31.11	0.07	
2	312	10.65	34.732	26.65	14	1.66	525	3	2.80	39.16	25.92	1.32	7.70
2	362	9.91	34.688	26.74	15	1.87	534	3	2.90	44.30	25.74	1.25	
2	411	9.07	34.647	26.85	14	1.74	545	3	3.00	51.33	27.22	0.99	
2	510	7.68	34.593	27.02	14	1.19	565	2	3.24	64.26	31.86	0.97	7.68
2	610	6.71	34.570	27.14	11	2.59*	581	2	3.29	71.28	37.75	0.03	
2	710	6.00	34.561	27.23	18	1.40	584	3	3.42	80.07	41.22	0.00	
2	810	5.43	34.556	27.29	17	2.51	594	3	3.44	88.23	43.48	0.01	
2	1011	4.45	34.567	27.42	32	21.33	593	5	3.46	102.16	44.91	0.01	7.71

T G THOMPSON CRUISE 026 STATION 018 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	1.62	2.43	2.06
1	10	0.77	2.42	
1	20	1.16		
1	30	0.55		2.17
1	40	1.58		
1	50	0.91		2.35
1	75	2.09	2.28	2.55
1	101	0.74		
1	126	0.75	2.39	2.54
1	151	0.39		
2	214	0.31	2.38	2.47
2	263	0.24		
2	312	0.00	2.38	2.54
2	362	0.46		
2	411	0.32		
2	510	0.28	2.39	2.59
2	610	0.14		
2	710	0.45		
2	810	0.14		
2	1011	0.01	2.43	2.50

T G THOMPSON CRUISE 026

STATION 019

OBSERVED VALUES

DATE 26/01/68  
 HOUR 3.2  
 LAT 13-52.0N  
 LONG 97-45.0W

BARO 1010.2  
 TEMP DRY 26.2  
 TEMP WET 24.4  
 REL HUMID 86

WEATHER X2  
 VISIBILITY 8  
 CLOUD TYPE X  
 CLOUD AMT 9

WIND VELOC 03  
 WIND DIREC 10  
 WAVE DIREC 03  
 WAVE HEIGHT 1

WAVE PERIOD 3  
 SECCHI  
 SOUNDING 3345

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.17	34.131	22.35	412		-4	101	0.40	2.64	1.52	0.42	8.23
1	10	25.86	34.131	22.44	415		-5	102	0.48	2.51	2.68	0.41	8.41
1	19	25.35	34.138	22.61	415		-2	101	0.64	3.39	2.63	0.40	
1	29	24.96	34.141	22.73	414		1	100	0.63	4.14	3.86	0.37	8.20
1	39	24.47	34.161	22.89	412		6	98	0.67	4.27	4.67	0.38	
1	48		34.180		356				1.10	6.15	10.75	1.41	
1	72	21.37	34.282	23.87	310		129	71	1.42	10.29	15.05	0.71	8.04
1	96	19.56	34.429	24.46	237		217	52	1.74	14.06	20.32	0.23	
1	120	16.28	34.665	25.45	235		246	49	2.06	20.08	25.96	0.26	7.89
1	144	13.30	34.869	26.25		8.71	501	2	2.39	24.85	32.23	0.04	
2	191	12.70	34.844	26.35	15	4.84	501	3	2.45	27.48	33.13	0.02	7.76
2	236	12.07	34.808	26.45	14	4.93	509	3	2.55	29.74	33.44	0.01	
2	279	11.39	34.768	26.54	13	3.82	518	2	2.62	33.63	32.34	0.02	7.70
2	322	10.78	34.739	26.63	14	2.12	524	3	2.79	37.78	28.15	0.98	
2	368	10.23	34.714	26.71	13	1.91	532	2	2.88	40.16	30.65	0.11	
2	459	8.63	34.628	26.91	12	1.23	553	2	3.21	54.84	29.11	1.07	7.67
2	552	7.48	34.578	27.04	9	1.74	572	2	3.28	64.76	34.13	0.41	
2	646	6.72	34.566	27.14	8	1.36	584	1	3.39	73.29	38.35	0.18	
2	744	6.01	34.554	27.22	15	2.59	587	3	3.43	79.57	41.68	0.00	
2	938	4.98	34.557	27.35	18	7.35	600	3	3.53	93.25	44.63	0.00	7.60

T G THOMPSON CRUISE 026 STATION 020 OBSERVED VALUES

DATE 26/01/68  
 HOUR 13.0  
 LAT 14-41.0N  
 LONG 096-51.0W

BARO 1010.9  
 TEMP DRY 25.6  
 TEMP WET 23.9  
 REL HUMID 87

WEATHER X1  
 VISIBILITY 8  
 CLOUD TYPE 8  
 CLOUD AMT 1

WIND VELOC 02  
 WIND DIREC 11  
 WAVE DIREC 13  
 WAVE HEIGHT 2

WAVE PERIOD 2  
 SECCHI 21  
 SOUNDING 3567

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.18	34.131	22.35	438		-30	108	0.46	2.38	2.13	0.06	8.23
1	10	26.15	34.126	22.35	440		-32	108	0.43	2.64	1.29	0.06	8.25
1	20	25.42	34.066	22.53	436		-23	106	0.56	3.26	4.44	0.14	
1	29	24.09	34.107	22.96	382		39	91	0.96	5.15	7.29	0.83	8.14
1	39	23.16	34.131	23.25	375		52	88	1.08	5.27	6.82	1.09	
1	49		34.165		363				0.97	6.15	7.33	1.13	
1	74	22.19	34.210	23.59	344		90	79	1.14	7.40	10.46	1.40	8.08
1	98	21.03	34.231	23.92	287		155	65	1.47	11.55	16.32	0.41	
1	123	19.15	34.484	24.61	292		165	64	1.73	13.93	19.09	0.92	7.97
1	147	17.90	34.554	24.97	270		197	58	1.97	17.32	22.52	0.68	
2	180	13.59	34.827	26.16	7	1.32	499	1	2.58	25.48	27.92	1.30	7.73
2	222	12.53	34.829	26.37	3	1.02	515	1	2.64	29.12	29.79	0.55	
2	262	11.98	34.805	26.46	4	1.61	520	1	2.67	31.50	30.57	0.11	7.70
2	306	11.34	34.708*	26.51*	5	1.44	527	1	2.74	35.27	32.14	0.94	
2	351	10.76	34.734	26.63	5	1.19	533	1	2.87	39.91	26.07	1.34	
2	437	9.31	34.646	26.81	3	1.23	554	1	3.22	50.70	26.61	0.92	7.63
2	529	7.87	34.590	26.99	5	1.32	571	1	3.41	63.50	31.62	0.83	
2	623	7.08	34.581	27.10	6	1.49	581	1	3.48	71.28	35.24	0.69	
2	720	6.36	34.563	27.18	7	1.32	590	1	3.48	78.44	35.57	0.02	
2	921	5.05	34.560	27.34	12	6.16	605	2	3.63	93.37	44.33	0.00	7.60

T G THOMPSON CRUISE 026

STATION 020

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	3.07	2.44	2.12
1	10	1.10		
1	20	1.91		
1	29	1.46	2.38	2.19
1	39	0.97		
1	49	1.97	2.41	2.21
1	74	0.87	2.38	2.24
1	98	0.57		
1	123	1.26	2.40	2.34
1	147	0.37		
2	180	0.13	2.41	2.46
2	222	0.06		
2	262	0.13	2.41	2.51
2	306	0.08		
2	351	0.20		
2	437	0.55	2.43	2.57
2	529	0.00		
2	623	0.00		
2	720	0.00		
2	921	0.27	2.46	2.64

T G THOMPSON CRUISE 026 STATION 021 OBSERVED VALUES

DATE	26/01/68	BARO	1008.8	WEATHER	X1	WIND VELOC	05	WAVE PERIOD	3
HOUR	23.5	TEMP DRY	26.1	VISIBILITY	8	WIND DIREC	10	SECCHI	07
LAT	15-16.0N	TEMP WET	23.3	CLOUD TYPE	8	WAVE DIREC	10	SOUNDING	4850
LONG	095-55.0W	REL HUMID	79	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.36	34.224	22.97	419		0	100	0.65	5.27	5.15	0.36	8.07
1	10	23.84	34.228	23.13	408		14	97	0.86	5.27	6.37	0.38	8.06
1	19	23.33	34.174	23.23	395		31	93	0.88	6.15	7.28	0.41	
1	29	23.01	34.233	23.37	386		42	90	0.97	7.15	8.82	0.41	8.03
1	39	22.69	34.243	23.47	380		50	88	0.98	7.66	9.90	0.40	
1	49		34.247		373				0.99	8.16	10.56	0.37	
1	73	19.56	34.431	24.46	319		134	70	1.45	15.31	16.99	0.16	7.93
1	97	18.15	34.538	24.90	128		336	28	2.05	16.94	24.35	0.49	
1	122	13.79	34.966	26.15	18		487	3	2.40	23.97	32.59	0.10	7.66
1	146	12.97	34.850	26.30	25	12.49	488	5	2.39	25.73	32.71	0.02	
2	201	11.46	34.823	26.57	8	4.63	522	2	2.51	29.24	32.65	0.04	7.63
2	252	11.76	34.737*	26.45*	6	2.89	521	1	2.61	31.25	32.18	0.01	
2	298	11.23	34.762	26.57	4	2.29	529	1	2.72	34.64	30.60	0.03	7.60
2	346	10.45	34.723	26.68	4	0.98	539	1	2.82	40.03	28.24	0.72	
2	397	8.99	34.670	26.88	4	1.36	556	1	3.00	48.44	27.74	1.14	
2	496	8.25	34.612	26.95	2	1.19	568	0	3.24	59.36	29.56	1.00	7.54
2	596	6.89	34.573	27.12	4	1.36	586	1	3.42	72.79	35.50	0.52	
2	696	6.12	34.499*	27.16*	6	1.70	595	1	3.43	79.19	39.88	0.00	
2	796	5.47	34.562	27.29	6	2.46	604	1	3.46	87.60	44.21	0.00	
2	996	4.50	34.568	27.41	22	15.38	603	4	3.48	102.16	43.99	0.00	7.51

T G THOMPSON CRUISE 026 STATION 022 OBSERVED VALUES

DATE 24/01/68 BARO 1012.7 WEATHER WIND VELOC 03 WAVE PERIOD X  
 HOUR 5.7 TEMP DRY 25.0 VISIBILITY 8 WIND DIREC 12 SECCHI  
 LAT 15-36.5N TEMP WET 24.9 CLOUD TYPE X WAVE DIREC 00  
 LONG 94-40.4W REL HUMID 99 CLOUD AMT 9 WAVE HEIGHT 0 SOUNDING 1188

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.53	34.124	22.54	429		-17	104	0.55	2.13	2.92	0.26	8.18
1	10	25.43	34.125	22.57	427		-14	104	0.59	1.25	2.75	0.24	8.18
1	19	23.81	34.141	23.07	385		37	91	0.92	4.02	7.22	0.58	
1	29	23.52	34.230	23.22	376		48	89	0.96	6.27	8.33	0.63	8.10
1	39	22.17	34.291	23.65	344		90	79	1.20	8.28	11.37	0.59	
1	48		34.331		324				1.31	10.79	13.90	0.48	
1	72	17.58	34.650	25.13	112		357	24	2.04	18.20	24.73	0.44	7.86
1	96	13.98	34.842	26.09	21		482	4	2.62	23.59	30.56	0.20	
1	120	13.21	34.790*	26.21*	17	12.37	494	3	2.62	25.85	31.33	0.10	7.71
1	144	12.70	34.838	26.35	12	6.54	504	2	2.47	28.24	28.30	0.02	
2	201	12.19	34.814	26.43	15	6.25	507	3	2.55	27.86	32.71	0.02	7.70
2	252	11.84	34.805	26.49	16	7.01	510	3	2.59	32.13	32.29	0.02	
2	302	11.34	34.741	26.53	9	5.69	523	2	2.71	33.76	31.94	0.38	7.67
2	350	10.73	34.690*	26.60*	12	1.36	527	2	2.93	37.65	28.08	1.09	
2	401	9.85	34.704	26.77	8	1.23	542	1	3.06	44.80	27.78	0.97	
2	499	7.95	34.598	26.99	6	1.44	569	1	3.29	61.87	31.40	0.71	7.58
2	600	6.98	34.571	27.11	4	1.44	584	1	3.40	69.90	31.34	0.69	
2	700	6.04	34.569	27.23	4	2.38	597	1	3.55	78.81	37.13	0.02	
2	800	5.39	34.561	27.30	7	3.61	605	1	3.50	88.60	40.84	0.00	
2	897	5.14	34.559	27.33	9	5.78	607	1	3.50	90.61	44.20	0.01	7.60

T G THOMPSON CRUISE 026 STATION 022 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.34	2.16
1	10		2.81	2.19
1	19			
1	29		2.31	2.20
1	39			
1	48		2.33	2.28
1	72		2.34	2.37
1	96			
1	120		2.36	2.43
1	144			
2	201		2.37	2.46
2	252			
2	302		2.36	2.48
2	350			
2	401			
2	499		2.39	2.55
2	600			
2	700			
2	800			
2	897			

T G THOMPSON CRUISE 026 STATION 023 OBSERVED VALUES

DATE	27/01/68	BARO	1012.5	WEATHER	X1	WIND VELOC	05	WAVE PERIOD	2
HOUR	12.5	TEMP DRY	24.4	VISIBILITY	8	WIND DIREC	06	SECCHI	
LAT	15-47.0N	TEMP WET	23.3	CLOUD TYPE	2	WAVE DIREC	05	SOUNDING	302
LONG	095-26.0W	REL HUMID	91	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.05	34.122	22.68	407		7	98	0.57	2.38	3.52	0.31	8.29
1	10	24.32	34.130	22.91	390		29	93	0.75	2.38	4.99	0.52	8.25
1	19	22.87	34.255	23.43	348		81	81	1.24	5.65	10.20	0.78	
1	29	22.52	34.262	23.53	347		85	80	1.19	7.40	11.09	0.68	8.09
1	38	21.29	34.367	23.95	272		168	62	1.44	9.79	14.94	0.70	
1	47	20.00	34.694	24.55	194		255	43	1.70	12.05	19.32	0.65	8.06
1	70	15.55	34.871	25.77	23	13.30	464	5	2.10	21.33	28.54	0.12	7.77
1	93	14.20	34.874	26.07	13	4.89	487	3	2.15	22.59	29.57	0.01	
1	115	13.66	34.881	26.18	15	3.61	491	3	2.17	24.35	30.71	0.05	7.86
1	136	13.63	34.866	26.18	12	2.76	495	2	2.77	25.60	30.83	0.06	
1	269	11.77	34.794	26.49	22	4.25	505	4	2.55	32.25	30.42	0.00	7.82

T G THOMPSON CRUISE 026 STATION 023 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.32	2.14
1	10		2.29	2.21
1	19			
1	29		2.30	2.26
1	38			
1	47		2.31	2.33
1	70		2.32	2.46
1	93			
1	115		2.32	2.47
1	136			
1	269		2.34	2.48

T G THOMPSON CRUISE 026 STATION 024 OBSERVED VALUES

DATE	27/01/68	BARO	1013.2	WEATHER	X1	WIND VELOC	16	WAVE PERIOD	2
HOUR	17.5	TEMP DRY	28.8	VISIBILITY	8	WIND DIREC	05	SECCHI	07
LAT	16-00.0N	TEMP WET	28.6	CLOUD TYPE	2	WAVE DIREC	05	SOUNDING	45
LONG	95-12.0W	REL HUMID	98	CLOUD AMT	2	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.89	34.056	22.68	417		-1	100	0.60	2.76	7.20	0.45	8.33
1	10	24.75	34.057	22.73	407		9	98	0.58	3.14	4.09	0.45	8.30
1	20	24.42	34.076	22.84	371		48	89	0.91	4.27	6.10	0.63	8.28
1	30	24.07	34.110	22.97	351		70	83	0.91	4.39	7.40	0.72	8.26
1	36	23.42	34.157	23.20	345		80	81	1.03	5.90	7.79	0.62	8.25

T G THOMPSON CRUISE 026 STATION 025 OBSERVED VALUES

DATE	28/01/68	BARO	1009.5	WEATHER	01	WIND VELOC	02	WAVE PERIOD	3
HOUR	22.6	TEMP DRY	28.3	VISIBILITY	8	WIND DIREC	14	SECCHI	05
LAT	13-58. N	TEMP WET	28.1	CLOUD TYPE		WAVE DIREC	30	SOUNDING	6509
LONG	93-30. W	REL HUMID	98	CLOUD AMT	0	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.37	34.047	22.22	478		-71	118	0.36	3.26	0.55	0.17	8.38
1	10	25.97	34.048	22.35	479		-69	117	0.41	3.76	0.77	0.16	8.37
1	20	15.90	34.691	25.55	61		423	13	2.13	20.33	26.08	0.99	
1	30	14.15	34.640	26.05	23		478	5	2.29	22.97	30.36	0.06	7.89
1	39	13.87	34.842	26.11	13		491	3	2.25	23.84	30.75	0.05	
1	49	13.64	34.840	26.16	11	11.81	495	2	2.35	23.59	31.11	0.03	7.87
1	74	13.12	34.879	26.29	16		496	3	2.31	24.72	31.44	0.03	7.84
1	98	12.82	34.853	26.33	22	12.92	493	4	2.39	26.35	31.74	0.03	
1	123	12.54	34.853	26.39	30	19.63	487	6	2.36	25.60	31.78	0.03	7.88
1	148	12.32	34.843	26.42	31	19.29	489	6	2.32	27.11	32.29	0.02	
2	201	11.80	34.803	26.49	14	7.78	512	3	2.45	29.74	32.98	0.01	7.83
2	251	11.29	34.777	26.57	10		522	2	2.52	31.88	32.93	0.01	
2	302	10.72	34.750	26.65	4	1.78	535	1	2.68	36.02	31.05	0.00	7.80
2	352	10.25	34.719	26.71	5	1.66	540	1	2.74	39.28	31.77	0.00	
2	402	9.53	34.682	26.80	2	0.59	552	0	2.90	44.68	29.94	0.32	
2	503	8.10	34.605	26.97	4	0.08	569	1	3.10	56.60	32.75	0.32	7.74
2	603	7.26	34.579	27.07	3	0.89	581	0	3.22	67.02	34.63	0.33	
2	704	6.37	34.576	27.19	5	0.81	592	1	3.26	74.30	40.07	0.02	
2	804	5.76	34.554	27.25	5	1.15	601	1	3.37	82.83	41.56	0.00	
2	1012	4.72	34.566	27.39	14	9.39	607	2	3.44	98.27	44.69	0.02	7.70
3	1692	2.79	34.627	27.63	125		528	19	3.00	134.41	41.15	0.07	7.82
3	2490	1.89	34.668	27.74	215		454	32	2.76	148.22	36.86	0.03	7.92
3	3190	1.98	34.671	27.73	228		439	34	2.72	148.22	37.56	0.09	
3	3689	1.91	34.673	27.74	231		436	35	2.75	150.98	37.06	0.04	7.89
3	4090	2.04	34.675	27.73	232		432	35	2.72	151.23	36.55	0.05	
3	4489		34.616		234				2.80	151.23	37.16	0.03	
3	4890	2.03	34.680	27.73	234		432	35	2.74	150.22	37.17	0.06	7.87
3	5294	2.11	34.672	27.72	233		432	35	2.75	150.10	36.78	0.03	
3	5697	2.16	34.671	27.72	233		431	35	2.73	150.10	36.74	0.07	
3	6100	2.23	34.681	27.72	232		430	35	2.80	148.72	36.97	0.05	7.87

T G THOMPSON CRUISE 026

STATION 025

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	4.00	2.29	2.03
1	10	0.96	2.29	2.07
1	20	0.09		
1	30	0.82	2.33	2.33
1	39	0.32		
1	49	0.09	2.32	2.48
1	74	0.76	2.34	2.54
1	98	0.15		
1	123	0.24	2.33	2.53
1	148	0.51		
2	201	0.19	2.32	2.54
2	251	0.48		
2	302	0.25	2.34	2.59
2	352	0.22		
2	402	0.00		
2	503	0.10	2.41	2.61
2	603	0.05		
2	704	0.38		
2	804	0.10		
2	1012	0.28	2.40	2.64
3	1692		2.44	2.70
3	2490		2.47	2.68
3	3190			
3	3689		2.48	2.68
3	4090			
3	4489			
3	4890		2.47	2.66
3	5294			
3	5697			
3	6100		2.47	2.60

T G THOMPSON CRUISE 026

STATION 026

OBSERVED VALUES

DATE 29/01/68  
 HOUR 23.2  
 LAT 13-43.0N  
 LONG 091-08.0W

BARO 1009.0  
 TEMP DRY 31.1  
 TEMP WET 29.4  
 REL HUMID 88

WEATHER X1  
 VISIBILITY 8  
 CLOUD TYPE 0  
 CLOUD AMT 1

WIND VELOC 10  
 WIND DIREC 28  
 WAVE DIREC 28  
 WAVE HEIGHT 1

WAVE PERIOD 2  
 SECCHI 15  
 SOUNDING 38

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.05	33.567	21.65	439		-36	109	0.26	3.39	1.93	0.09	8.41
1	10	26.65	33.557	21.76	443		-37	109	0.29	3.01	1.26	0.09	
1	20	25.95	33.597	22.01	459		-48	112	0.37	2.38	2.76	0.14	8.40
1	30	25.33	33.918	22.45	392		21	95	0.66	0.25	4.25	1.06	

T G THOMPSON CRUISE 026 STATION 027 OBSERVED VALUES

DATE 30/01/68 BARO 1011.3 WEATHER WIND VELOC 06 WAVE PERIOD 2  
 HOUR 13-22.0N TEMP DRY 28.5 VISIBILITY 8 WIND DIREC 35 SECCHI  
 LAT 13-22.0N TEMP WET 27.2 CLOUD TYPE X WAVE DIREC 35 SOUNDING 1189  
 LONG 91-24.0W REL HUMID 90 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.76	33.556	21.73	448		-42	111	0.23	0.88	0.10	0.03	8.44
1	10	26.63	33.555	21.77	450		-43	111	0.21	0.75	0.14	0.02	8.27
1	20	26.40	33.555	21.84	456		-48	112	0.18	0.63	0.09	0.01	8.35
1	30	25.22	33.669	22.29	420		-5	101	0.46	1.13	3.33	0.41	
1	40	23.22	34.046	23.17	347		80	81	1.00	5.27	10.61	0.70	
1	50	20.62	34.436	24.19	202		243	45	1.65	11.80	19.86	1.59	7.98
1	76	14.75	34.837	25.92	9		486	2	2.38	21.84	30.36	0.11	7.85
1	101	13.76	34.866	26.15	9	3.87	496	2	2.39	22.84	30.94	0.03	
1	126	13.41	34.874	26.23	15	6.59	494	3	2.38	24.10	30.95	0.02	7.93
1	151	13.11	34.863	26.28	13	5.91	499	3	2.38	24.97	31.84	0.01	
2	201	12.59	34.850	26.38	9	3.61	509	2	2.42	28.24	32.03	0.03	7.88
2	252	11.81	34.813	26.50	7	3.70	519	1	2.48	30.62	32.60	0.01	
2	302	11.12	34.758	26.58	7	1.87	527	1	2.62	33.63	31.43	0.00	7.87
2	352	10.50	34.733	26.68	6	1.32	536	1	2.69	38.53	29.82	0.06	
2	403	9.62	34.677	26.78	7	0.38	546	1	2.90	45.18	27.35	1.11	
2	503	7.76	34.567	26.99	5	0.21	572	1	3.24	61.62	31.01	1.15	7.79
2	604	6.94	34.757*	27.26*	4	0.51	584	1	3.28	69.40	36.10	0.08	
2	705	6.35	34.573	27.19	4	0.42	593	1	3.34	75.93	38.96	0.16	
2	811	5.71	34.559	27.26	7	2.00	599	1	3.36	83.33	41.29	0.02	
2	1012	4.57	34.567	27.40	24	16.19	600	4	3.47	101.78	44.16	0.00	7.77

T G THOMPSON CRUISE 026

STATION 028

OBSERVED VALUES

DATE 30/01/68  
 HOUR 13.0  
 LAT 13-02.0N  
 LONG 091-49.0W

BARO 1013.6  
 TEMP DRY 28.9  
 TEMP WET 26.2  
 REL HUMID 81

WEATHER X0  
 VISIBILITY 8  
 CLOUD TYPE  
 CLOUD AMT 0

WIND VELOC 02  
 WIND DIREC 10  
 WAVE DIREC 32  
 WAVE HEIGHT 2

WAVE PERIOD 2  
 SECCHI 18  
 SOUNDING 5495

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
2	0	27.61	34.101	21.87	430		-31	108	0.43	1.88	0.95	0.23	8.36
2	10	26.83	34.107	22.12	433		-29	107	0.43	2.01	0.90	0.15	8.35
2	20	26.49	34.053	22.19	428		-22	106	0.49	1.88	1.75	0.14	
2	30	26.22	34.063	22.28	416		-8	102	0.57	2.13	2.83	0.11	8.32
2	40	22.77	34.275	23.47	272		157	63	1.31	8.66	13.75	0.29	
2	50	15.81	34.814	25.67	12		473	2	2.35	19.58	28.39	0.14	7.89
2	76	14.41	34.878	26.02	12		486	3	2.38	22.46	27.90	0.64	7.88
2	101	13.81	34.886	26.16	15	0.98	490	3	2.41	24.10	28.88	0.62	
2	126	13.37	34.870	26.23	15	1.66	494	3	2.40	24.72	30.07	0.06	7.87
2	151	12.94	34.871	26.32	21	3.82*	493	4	2.40	26.61	31.81	0.08	
3	199	12.31	34.856	26.44	12	2.55	509	2	2.45	28.49	32.62	0.03	7.84
3	249	10.95	34.758	26.61	10	0.64	526	2	2.70	35.77	30.52	0.03	
3	299	10.01	34.710	26.74	10	0.51	537	2	2.85	42.17	27.22	1.24	7.78
3	349	9.31	34.685	26.84	8	0.42	548	1	2.95	47.69	26.53	1.60	
3	399	8.67	34.624	26.90	13	1.74*	552	2	3.11	54.22	27.46	1.34	
3	499	7.62	34.608	27.04	11	0.21	568	2	3.77	63.88	32.63	0.83	7.75
3	598	6.70	34.584	27.15	9	0.77	583	1	3.88	72.92	36.57	0.24	
3	698	5.99	34.575	27.24	14	2.63	589	2	3.42	78.56	41.09	0.01	
3	798	5.52	34.564	27.29	15	4.08	595	2	3.43	99.02	43.41	0.00	
3	997	4.61	34.688*	27.49*	24	13.47	599	4	3.51	99.02	43.99	0.01	7.76
1	3010	1.93	34.664	27.73	233		434	35	2.80	149.60	37.34	0.02	7.94
1	3514	1.86	34.683	27.75	240		429	36	2.79	147.84	37.46	0.02	7.94
1	4422	1.98	34.679	27.74	236		430	35	2.83	147.59	37.16	0.03	
1	5127	2.08	34.700	27.75	237		428	36	2.76	147.84	37.16	0.03	
1	5534	2.12	34.571	27.64	236		428	36	2.80	147.84	37.17	0.02	7.93
1	5546		34.677										

T G THOMPSON CRUISE 026

STATION 028

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
2	0	1.08	2.38	2.21
2	10	1.27	2.38	2.17
2	20	1.67		
2	30	1.57	2.40	2.17
2	40	2.14		
2	50	1.20	2.42	2.48
2	76	1.42	2.41	2.52
2	101	1.24		
2	126	0.91	2.43	2.54
2	151	0.64		
3	199	0.48	2.42	2.55
3	249	0.39		
3	299	0.13	2.43	2.59
3	349	0.00		
3	399	0.27		
3	499	0.16	2.46	2.62
3	598	0.14		
3	698	0.31		
3	798	0.34		
3	997	0.49	2.47	2.65
1	3010		2.53	2.65
1	3514		2.54	2.73
1	4422			
1	5127			
1	5534		2.54	2.68
1	5546			

T G THOMPSON CRUISE 026 STATION 029 OBSERVED VALUES

DATE	31/01/68	BARO	1011.7	WEATHER		WIND VELOC	02	WAVE PERIOD	X
HOUR	2.4	TEMP DRY	28.3	VISIBILITY	8	WIND DIREC	18	SECCHI	
LAT	12-49.0N	TEMP WET	26.4	CLOUD TYPE	X	WAVE DIREC	99	SOUNDING	3176
LONG	092-35.0W	REL HUMID	86	CLOUD AMT	9	WAVE HEIGHT	X		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	.O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.22	34.009	21.92	458		-57	114	0.24	1.63	0.00	0.27	8.36
1	9	27.18	34.006	21.93	458		-56	114	0.18	1.25	0.11	0.23	8.38
1	19	26.55	34.232	22.30	501		-96	124	0.30	1.13	1.09	0.26	
1	28	25.74	34.412	22.69	440		-30	108	0.66	1.13	0.00	0.20	8.29
1	37	24.85	34.418	22.97	417		-1	101	0.92	1.13	9.02	0.23	
1	46		34.450		363				1.12	2.13	11.04	0.44	
1	71	16.74	34.684	25.35	73		404	15	2.03	19.08	24.66	0.52	8.00
1	96	13.99	34.885	26.12	8	3.40	494	2	2.39	24.22	30.51	0.08	
1	120	13.58	34.865	26.19	12	5.35	495	2	2.31	24.60	31.23	0.03	7.93
1	144	13.15	34.870	26.28	15	9.18	497	3	2.29	25.48	32.08	0.02	
2	186	12.68	34.860	26.37	7	3.06	509	1	2.42	27.74	32.88	0.02	7.87
2	231	12.24	34.851	26.45	13	6.03	514	2	2.48	28.49	32.88	0.02	
2	275	11.63	34.777	26.50	11	6.54	517	2	2.48	31.00	31.34	0.01	7.88
2	318	11.09	34.766	26.60	7	1.23	528	1	2.56	33.63	32.51	0.01	
2	364	10.64	34.741	26.66	7	2.51*	533	1	2.64	36.14	31.75	0.02	
2	452	9.25	34.667	26.84	6	0.25	551	1	2.95	49.07	25.87	1.84	7.79
2	542	7.94	34.610	27.00	4	0.47	570	1	3.12	60.37	29.31	1.21	
2	631	7.00	34.598	27.12	4	0.30	583	1	3.22	70.15	36.35	0.34	
2	722	6.33	34.559	27.18	7	1.87	591	1	3.25	75.43	41.56	0.00	
2	915	5.14	34.561	27.33	10	4.67	605	2	3.38	91.74	43.86	0.01	7.73

T G THOMPSON CRUISE 026 STATION 029 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.35	2.12
1	9			
1	19			
1	28		2.37	2.19
1	37			
1	46		2.37	2.24
1	71			
1	96			
1	120			
1	144			
2	186		2.42	2.44
2	231			
2	275			
2	318			
2	364			
2	452		2.43	2.54
2	542			
2	631			
2	722			
2	915		2.45	2.59

T G THOMPSON CRUISE 026 STATION 030 OBSERVED VALUES

DATE	31/01/68	BARO	1013.4	WEATHER	X1	WIND VELOC	12	WAVE PERIOD	3
HOUR	15.7	TEMP DRY	28.3	VISIBILITY	8	WIND DIREC	06	SECCHI	15
LAT	10-53.0N	TEMP WET	25.7	CLOUD TYPE	8	WAVE DIREC	04	SOUNDING	3658
LONG	093-24.0W	REL HUMID	81	CLOUD AMT	3	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	S104 UGAT/L	N03 UGAT/L	N02 UGAT/L	PH
1	0	27.62	33.522	21.43	419		-19	105	0.22	0.63	0.33	0.05	8.67
1	10	27.56	33.529	21.45	418		-18	105	0.16	0.50	0.13	0.02	8.68
1	20	27.55	33.518	21.45	423		-22	106	0.19	0.88	0.10	0.03	
1	30	27.56	33.543	21.46	419		-18	105	0.17	0.25	0.14	0.02	8.68
1	39	27.54	33.523	21.46	418		-18	105	0.22			0.05	
1	49		33.511		375				0.35	1.38	0.88	0.72	
1	75	20.25	34.507	24.34	97		350	22	1.74	12.42	21.94	0.08	8.17
1	99	14.17	34.780	26.00	48	30.13	453	9	2.27	22.84	28.14	0.25	
1	124	13.23	34.785	26.20	45	28.98	465	9	2.24	24.35	29.28	0.05	7.87
1	149	13.02	34.838	26.28	21	8.92	492	4	2.34	24.97	27.49	0.03	
2	196	12.66	34.879	26.39	23	15.47	493	5	2.37	26.98	31.75	0.06	7.87
2	246	11.98	34.863	26.51	45	32.26	479	9	2.41	27.99	31.38	0.01	
2	293	11.44	34.792	26.55	14	8.20	517	3	2.49	31.25	32.71	0.02	7.81
2	340	10.99	34.758	26.61	29	14.83	506	5	2.71	32.50	32.73	0.00	
2	387	10.34	34.738	26.71	8	3.57	535	1	3.01	38.03	32.19	0.00	
2	483	9.16	34.666	26.85	4	0.85	554	1	3.26	48.82	30.58	0.01	7.68
2	581	7.70	34.618	27.04	3	0.38	575	1	3.88	60.62	33.65	0.52	
2	678	6.71	34.585	27.15	4	1.06	588	1	3.69	70.91	34.16	0.00	
2	776	6.00	34.580	27.24	9	3.14	593	1	3.45	77.94	36.30	0.01	
2	972	4.91	34.569	27.37	27	19.08	592	4	3.40	92.37	43.74	0.00	7.59

T G THOMPSON CRUISE 026

STATION 030

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.38	2.10
1	10		2.37	2.13
1	20			
1	30		2.40	2.10
1	39			
1	49		2.37	2.16
1	75		2.41	2.43
1	99			
1	124		2.43	2.47
1	149			
2	196		2.44	2.53
2	246			
2	293		2.45	2.58
2	340			
2	387			
2	483		2.45	2.65
2	581			
2	678			
2	776			
2	972		2.50	2.66

T G THOMPSON CRUISE 026 STATION 031 OBSERVED VALUES

DATE	01/02/68	BARO	1010.3	WEATHER	X1	WIND VELOC	14	WAVE PERIOD	3
HOUR	0.6	TEMP DRY	27.8	VISIBILITY	8	WIND DIREC	09	SECCHI	
LAT	10-13.0N	TEMP WET	26.7	CLOUD TYPE	8	WAVE DIREC	26	SOUNDING	3658
LONG	094-35.0W	REL HUMID	92	CLOUD AMT	2	WAVE HEIGHT	5		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.74	34.268	22.59	438		-27	107	0.69	0.75	6.21	0.43	8.56
1	10	25.90	34.311	22.57	438		-28	107	0.73	0.38	6.61	0.41	8.57
1	19	25.93	34.391	22.62	432		-24	106	0.83	0.13	7.53	0.33	
1	29	25.78	34.456	22.71	427		-17	104	0.88	0.88	8.50	0.29	8.54
1	39	25.37	34.345	22.75	419		-6	102	0.90	1.38	8.67	0.50	
1	49	19.93	34.524	24.44	93		357	21	1.97	12.80	19.41	0.68	8.12
1	73	14.33	34.857	26.03	86		413	17	1.99	20.96	24.38	0.54	7.97
1	97	13.46	34.873	26.22	112		396	22	1.98	21.46	26.47	0.21	
1	122	13.21	34.905	26.30	86		424	17	2.09	21.71	29.26	0.07	8.00
1	146	13.03	34.898	26.33	63	41.31	450	12	2.15	21.84	31.19	0.03	
2	195	12.35	34.870	26.44	56	38.33	464	11	2.23	24.60	32.01	0.14	7.87
2	244	12.06	34.832	26.47	61	43.22	462	12	2.32	26.73	32.25	0.02	
2	292	11.41	34.776	26.54	63	42.37	468	12	2.39	29.87	32.28	0.03	7.79
2	340	10.78	34.698	26.60	46	31.54	492	9	2.51	32.25	32.39	0.01	
2	388	10.34	34.728	26.70	26	15.81*	518	5	2.70	35.89	32.38	0.02	
2	482	8.86	34.655	26.89	3	0.81	559	1	3.06	49.20	32.27	0.00	7.71
2	578	7.51	34.605	27.06	4	0.21	576	1	3.32	62.00	31.95	0.54	
2	675	6.62	34.575	27.16	7	1.49	587	1	3.36	69.90	34.94	0.02	
2	774	5.90	34.562	27.24	16	3.02	588	3	3.39	77.94	38.91	0.00	
2	973	4.76	34.564	27.38	22	15.17	599	4	3.48	95.13	44.53	0.01	7.61

T G THOMPSON CRUISE 026 STATION 032 OBSERVED VALUES

DATE	01/02/68	BARO	1013.6	WEATHER	X1	WIND VELOC	13	WAVE PERIOD	2
HOUR	17.7	TEMP DRY	29.0	VISIBILITY	8	WIND DIREC	09	SECCHI	23
LAT	09-58.0N	TEMP WET	24.7	CLOUD TYPE	8	WAVE DIREC	08	SOUNDING	3640
LONG	093-22.0W	REL HUMID	70	CLOUD AMT	2	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.20	33.855	21.81	429		-27	107	0.29	1.51	0.28	0.11	8.69
1	10	27.06	33.855	21.86	427		-24	106	0.31	0.88	0.26	0.09	8.69
1	20	27.03	33.869	21.88	429		-26	107	0.32	1.38	0.25	0.12	
1	30	26.56	33.907	22.06	429		-23	106	0.56	1.63	0.00	0.33	8.65
1	40	26.17	33.924	22.19	419		-10	103	0.59	1.38	3.29	0.37	
1	50		34.021		342				0.94	4.14	7.05	3.66	
1	74	15.31	34.760	25.74	32		458	7	2.31	21.08	27.29	1.89	7.93
1	99	13.30	34.768	26.17	73		437	14	2.18	24.10	29.06	0.10	
1	124	12.86	34.791	26.28	64	44.45	450	12	2.23	24.72	29.92	0.04	7.93
1	149	12.84	34.873	26.34	20	12.15	494	4	2.35	24.97	31.56	0.08	
2	201	12.37	34.833	26.41	47	31.11	473	9	2.30	26.48	31.29	0.10	7.87
2	251	11.74	34.800	26.50	50	29.71	477	9	2.36	29.37	32.00	0.06	
2	298	11.20	34.758	26.57	52	34.89	481	10	2.37	31.00	32.09	0.06	7.86
2	347	10.76	34.751	26.64	36	22.35	503	7	2.52	33.38	32.95	0.04	
2	396	10.13	34.713	26.73	6	2.21	540	1	2.81	40.79	32.24	0.03	
2	495	8.57	34.658	26.94	2	0.59	564	0	3.09	54.72	28.79	1.01	7.64
2	595	7.17	34.597	27.10	6	1.02	580	1	3.26	66.51	36.85	0.04	
2	699	6.41	34.587	27.19	8	4.42	588	1	3.32	73.54	41.09	0.01	
2	800	5.75	34.588	27.28	18	10.03	588	3	3.33	80.57	42.35	0.01	
2	1001	4.64	34.564	27.39	38	22.40	585	6	3.38	97.89	41.31	0.00	7.60

T G THOMPSON CRUISE 026 STATION 032 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	1.26		2.15
1	10	1.17		2.15
1	20	1.19		
1	30	3.07		2.20
1	40	1.32		
1	50	1.06		2.29
1	74	0.96		2.55
1	99	1.00		
1	124	0.93		2.56
1	149	0.76		
2	201	0.35		2.59
2	251	1.21		
2	298	0.67		2.58
2	347	0.26		
2	396	0.32		
2	495	0.01		2.68
2	595	0.22		
2	699	0.38		
2	800	0.24		
2	1001	0.42		2.70

T G THOMPSON CRUISE 026 STATION 033 OBSERVED VALUES

DATE	02/02/69	BARO	1012.3	WEATHER		WIND VELOC	12	WAVE PERIOD	2
HOUR	2.3	TEMP DRY	26.2	VISIBILITY	8	WIND DIREC	09	SECCHI	
LAT	09-54.0N	TEMP WET	22.8	CLOUD TYPE	X	WAVE DIREC	08	SOUNDING	3576
LONG	092-37.0W	REL HUMID	75	CLOUD AMT	9	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	27.03	33.959	21.95	430		-27	107	0.32	1.76	0.18	0.54	8.73
1	10	26.95	33.982	21.99	435		-31	108	0.43	1.76	0.94	0.11	
1	20	26.89	34.014	22.03	437		-33	109	0.35	2.13	1.05	0.09	
1	30	26.77	34.011	22.07	436		-32	108	0.35	1.76	0.98	0.11	8.42
1	40	25.61	34.217	22.58	415		-4	101	0.75	2.13	6.62	0.49	
1	49		34.321		187				1.57	8.53	19.75	0.68	
1	74	14.64	34.813	25.93	12		485	2	2.34	22.97	29.81	0.07	7.96
1	99	13.22	34.798	26.21	41		470	8	2.30	24.72	30.31	0.03	
1	124	12.98	34.859	26.31	28		485	5	2.30	25.48	31.58	0.02	7.94
1	148	12.59	34.837	26.37	39	23.16	478	8	2.37	26.61	31.12	0.02	
2	200	11.93	34.793	26.46	58	36.12	467	11	2.36	28.74	30.67	0.05	7.96
2	250	11.45	34.775	26.54	58		473	11	2.38	29.74	31.40	0.03	
2	300	10.94	34.747	26.61	31	21.93	506	6	2.52	33.51	33.11	0.00	7.87
2	347	10.40	34.727	26.69	7		536	1	2.79	38.28	32.19	0.00	
2	397	9.75	34.678	26.76	4	1.10	547	1	2.93	43.80	28.47	0.78	
2	495	7.93	34.629	27.01	5	0.64	570	1	3.23	60.99	30.73	1.09	7.71
2	595	6.95	34.578	27.11	4	0.93	584	1	3.30	64.38	38.51	0.02	
2	695	6.24	34.585	27.21	15	8.20	583	3	3.20	69.40	38.77	0.06	
2	801	5.58	34.564	27.28	25	15.68	584	4	3.35	82.96	43.70	0.00	
2	1002	4.52	34.571	27.41	39	23.59	586	6	3.44	101.53	44.21	0.00	7.65

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T G THOMPSON CRUISE 026 STATION 034 OBSERVED VALUES

DATE	02/02/68	BARO	1014.5	WEATHER	X1	WIND VELOC	14	WAVE PERIOD	3
HOUR	14.4	TEMP DRY	26.9	VISIBILITY	8	WIND DIREC	07	SECCHI	12
LAT	09-56.0N	TEMP WET	23.6	CLOUD TYPE	6	WAVE DIREC	07	SOUNDING	3576
LONG	091-15.0W	REL HUMID	76	CLOUD AMT	6	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.15	34.446	22.90	446		-32	108	0.78	0.63	9.25	0.38	8.26
1	10	24.93	34.456	22.97	446		-31	108	0.83	0.38	7.17	0.36	8.26
1	20	24.83	34.542	23.07	444		-29	107	0.96	0.50	10.68	0.37	
1	30	22.39	34.624	23.84	373		58	86	1.47	8.03	17.68	0.31	8.09
1	40	19.61	34.693	24.65	206		246	46	1.84	14.18	20.86	0.79	
1	50	15.93	34.827	25.65	13		471	3	2.33	20.71	28.63	0.58	7.87
1	75	13.67	34.857	26.16	9		496	2	2.35	24.10	30.74	0.10	7.86
1	100	13.22	34.866	26.26	19	11.35	492	4	2.35	25.23	31.35	0.04	
1	125	13.01	34.876	26.31	14	8.97	499	3	2.35	25.60	32.47	0.05	7.87
1	150	12.80	34.866	26.35	12	7.56	503	2	2.38	26.61	32.20	0.07	
2	201	12.00	34.831	26.48	12	6.63	512	2	2.48	29.87	33.00	0.07	7.84
2	252	11.46	34.780	26.54	5	1.44	525	1	2.54	32.50	32.99	0.04	
2	302	10.75	34.750	26.64	3	1.23	536	1	2.72	36.27	31.79	0.02	7.77
2	352	10.15	34.714	26.72	3	0.42	543	1	2.83	42.17	29.42	0.46	
2	403	9.22	34.661	26.84	1	0.30	556	0	2.98	49.32	29.42	1.01	
2	503	7.67	34.605	27.03	2	0.72	576	0	3.26	63.88	32.84	0.61	7.72
2	604	6.64	34.586	27.16	7	3.70	586	1	3.28	70.03	40.54	0.05	
2	705	5.95	34.569	27.24	13	5.95	590	2	3.33	78.81	42.78	0.00	
2	806	5.35	34.573	27.32	20	10.62	592	3	3.36	87.72	42.70	0.03	
2	1007	4.58	34.569	27.40	50	34.34	574	8	3.40	99.65	43.82	0.01	7.75

T G THOMPSON CRUISE 026 STATION 034 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	2.41	2.40	2.21
1	10		2.38	2.24
1	20			
1	30		2.38	2.31
1	40	1.65		
1	50	0.32	2.39	2.43
1	75	0.69	2.39	2.46
1	100	0.51		
1	125	0.40	2.40	2.52
1	150	0.48		
2	201	0.45	2.40	2.50
2	252	0.35		
2	302	0.30	2.40	2.46
2	352	0.38		
2	403	0.50		
2	503	0.13	2.41	2.54
2	604	0.19		
2	705	0.69		
2	806	0.22		
2	1007	0.33	2.44	2.57

T G THOMPSON CRUISE 026 STATION 035 OBSERVED VALUES

DATE 03/02/68 BARO 1012.4 WEATHER WIND VELOC 05 WAVE PERIOD 2  
 HOUR 2.3 TEMP DRY 24.8 VISIBILITY 8 WIND DIREC 05 SECCHI  
 LAT 09-57.0N TEMP WET 22.8 CLOUD TYPE X WAVE DIREC 05 SOUNDING 3566  
 LONG 090-17.0W REL HUMID 84 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.89	34.499	23.32	446		-24	106	1.05	0.88	12.22	0.22	8.24
1	10	23.74	34.509	23.37	446		-23	106	0.98	0.25	12.10	0.21	8.23
1	20	23.36	34.493	23.47	440		-14	104	1.04	6.27	11.40	0.20	
1	30	22.82	34.475	23.61	406		23	95	1.24	5.77	13.23	0.18	7.91
1	40	15.73	34.835	25.70	96		389	20	2.31	18.32	25.85	0.03	
1	50	14.47	34.869	26.01	23		474	5	2.23	22.97	27.26	0.56	7.90
1	75	13.58	34.880	26.20	58		448	11	2.16	22.46	29.02	0.14	7.95
1	100	13.31	34.888	26.26	58		451	11	2.38	23.47	29.61	0.06	
1	126	13.02	34.883	26.32	36		477	7	2.28	25.23	31.28	0.03	7.90
1	151	12.83	34.865	26.34	51	33.28	464	10	2.20	25.10	29.64	0.03	
2	201	12.52	34.815	26.36	26	17.42	492	5	2.38	27.86	31.22	0.47	7.88
2	252	11.58	34.785	26.52	50	34.98	479	10	2.44	29.24	31.79	0.02	
2	302	10.95	34.755	26.61	37	26.26	499	7	2.62	32.76	32.93	0.01	7.85
2	352	10.26	34.730	26.72	14	9.86	531	3	2.76	37.78	31.94	0.00	
2	403	9.70	34.705	26.79	6	3.23	546	1	2.78	43.92	33.31	0.01	
2	503	8.21	34.628	26.97	3	0.59	568	1	3.13	56.22	34.39	0.07	7.74
2	604	6.98	34.574	27.11	9	4.29	579	1	3.23	64.00	39.37	0.00	
2	705	6.22	34.572	27.21	15	9.86	585	2	3.32	73.29	39.99	0.01	
2	806	5.69	34.565	27.27	26	16.49	581	4	3.24	80.32	43.99	0.00	
2	1007	4.80	34.573	27.38	50	33.40	571	8	3.33	93.75	41.35	0.00	7.76

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T G THOMPSON CRUISE 026 STATION 035 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.40	2.20
1	10		2.38	2.25
1	20			
1	30		2.40	2.44
1	40			
1	50		2.39	2.50
1	75		2.39	2.49
1	100			
1	126		2.38	2.51
1	151			
2	201		2.39	2.53
2	252			
2	302		2.39	2.51
2	352			
2	403			
2	503		2.40	2.57
2	604			
2	705			
2	806			
2	1007		2.43	2.62

T G THOMPSON CRUISE 026 STATION 036 OBSERVED VALUES

DATE	03/02/68	BARO	1013.0	WEATHER	X1	WIND VELOC	03	WAVE PERIOD	3
HOUR	6.5	TEMP DRY	26.0	VISIBILITY	8	WIND DIREC	08	SECCHI	20
LAT	10-06.0N	TEMP WET	23.3	CLOUD TYPE	2	WAVE DIREC	08	SOUNDING	3365
LONG	089-26.0W	REL HUMID	80	CLOUD AMT	2	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.81	34.575	23.97	417		19	96	1.32	12.80	15.72	0.21	8.12
1	10	21.44	34.585	24.08	415		23	95	1.33	12.30	15.55	0.17	8.12
1	20	21.16	34.599	24.17	412		29	93	1.31	12.30	16.43	0.17	
1	30	20.64	34.617	24.32	382		63	86	1.33	13.05	16.32	0.15	8.15
1	40	15.37	34.904	25.83	93		395	19	1.96	20.46	25.35	0.03	
1	50	14.56	34.917	26.02	50		447	10	2.10	20.96	27.76	0.48	7.92
1	75	14.05	34.916	26.13	39		462	8	2.21	21.84	29.75	0.09	7.88
1	100	13.68	34.899	26.20	39	25.84	466	8	2.26	21.84	29.89	0.03	
1	125	13.47	34.917	26.25	37		471	7	2.25	22.59	29.23	0.02	7.87
1	150	13.28	34.911	26.29	50	26.52	459	10	2.25	23.84	26.45	0.02	
2	198	12.75	34.865	26.36	43	23.29	473	8	2.29	24.72	31.20	0.02	7.85
2	248	12.11	34.271*	26.02*	9		515	2	2.45	29.24	31.51	0.01	
2	297	11.37	34.781	26.56	9	3.82	522	2	2.57	31.50	29.12	0.00	7.79
2	346	10.70	34.745	26.65	7	3.95	532	1	2.65	34.89	32.86	0.00	
2	396	10.07	34.701	26.73	10	5.61	537	2	2.81	39.66	32.85	0.01	
2	495	8.66	34.639	26.91	3	0.17	562	1	3.08	52.46	30.45	0.27	7.71
2	595	7.48	34.599	27.06	3	0.77	578	1	3.29	62.12	34.19	0.01	
2	694	6.52	34.590	27.18	19	6.97	576	3	3.27	68.52	35.80	0.00	
2	794	5.98	34.580	27.25	17	14.02	585	3	3.30	75.80	41.60*	0.00	
2	997	4.94	34.572	27.36	34	22.99	585	5	3.43	91.36	36.56	0.00	7.72

T G THOMPSON CRUISE 026 STATION 036 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.43	2.33
1	10		2.40	2.31
1	20			
1	30		2.40	2.31
1	40			
1	50		2.41	2.45
1	75		2.40	2.44
1	100			
1	125		2.41	2.46
1	150			
2	198		2.41	2.46
2	248			
2	297		2.42	2.51
2	346			
2	396			
2	495		2.43	2.56
2	595			
2	694			
2	794			
2	997		2.47	2.63

T G THOMPSON CRUISE 026

STATION 037

OBSERVED VALUES

DATE 04/02/68  
 HOUR 2.4  
 LAT 10-00.0N  
 LONG 089-08.0W

BARO 1011.0  
 TEMP DRY 24.5  
 TEMP WET 23.0  
 REL HUMID 88

WEATHER  
 VISIBILITY 8  
 CLOUD TYPE X  
 CLOUD AMT 9

WIND VELOC 03  
 WIND DIREC 07  
 WAVE DIREC 07  
 WAVE HEIGHT 2

WAVE PERIOD 2  
 SECCHI  
 SOUNDING 3293

CAST	DEPTH	TEMP DEG.C	SAL P/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.46	34.299	23.58	423		8	98	1.05	9.79	11.93	0.17	8.30
1	10	22.17	34.385	23.72	415		19	96	1.11	10.79	8.32	0.17	8.23
1	20	21.43	34.507	24.02	401		38	91	1.24	11.80	14.81	0.15	
1	30	20.78	34.557	24.24	371		72	84	1.32	10.42	12.29	0.15	8.18
1	40	16.77	34.793	25.43	119		357	25	1.94	16.94	23.56	0.57	
1	49	14.74	34.891	25.96	41		454	8	2.18	20.46	24.96	0.42	7.97
1	74	14.08	34.898	26.11	36		465	7	2.23	21.33	29.45	0.13	7.93
1	99	13.77	34.905	26.18	45	40.12	460	9	2.22	22.59	29.25	0.04	
1	124	13.53	34.939	26.26	50		457	10	2.22	23.22	29.71	0.04	7.94
1	148	13.36	34.934	26.29	40	35.87	469	8	2.32	24.35	28.29	0.03	
2	198	12.95	34.884	26.33	23	18.57	491	4	2.36	25.48	28.37	0.04	7.86
2	248	12.40	34.829	26.40	11		509	2	2.45	27.86	32.80	0.02	
2	298	11.84	34.803	26.49	12	10.37	514	2	2.52	30.62	32.81	0.01	7.80
2	347	11.05	34.764	26.60	19	16.23	516	4	2.60	32.76	32.18	0.01	
2	397	10.58	34.745	26.67	24	10.84	517	4	2.70	35.64	33.44	0.01	
2	496	8.67	34.625	26.90	4	0.72	561	1	3.13	53.84	32.71	1.25	7.75
2	596	7.44	34.585	27.05	3	1.44	579	0	3.41	62.75	35.51	0.04	
2	696	6.57	34.563	27.15	7	5.57	587	1	3.41	68.77	38.49	0.00	
2	796	5.91	34.567	27.24	11	7.18	593	2	3.44	77.94	43.36*	0.00	
2	895	4.76	34.565	27.38	26	22.61	595	4	3.51	93.75	36.60	0.00	7.75

T G THOMPSON CRUISE 026 STATION 037 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.31	2.25
1	10		2.31	2.29
1	20			
1	30		2.31	2.31
1	40			
1	49		2.33	2.47
1	74		2.32	2.49
1	99			
1	124		2.32	2.48
1	148			
2	198		2.33	2.49
2	248			
2	298		2.31	2.45
2	347			
2	397			
2	496		2.35	2.53
2	596			
2	696			
2	796			
2	995		2.39	2.63

T G THOMPSON CRUISE 026 STATION 038 OBSERVED VALUES

DATE 04/02/68	BARO 1012.3	WEATHER X1	WIND VELOC 20	WAVE PERIOD 3
HOUR 16.2	TEMP DRY 26.9	VISIBILITY 8	WIND DIREC 09	SECCHI 07
LAT 10-04.0N	TEMP WET 22.7	CLOUD TYPE 6	WAVE DIREC 07	SOUNDING 3191
LONG 088-15.0W	REL HUMID 70	CLOUD AMT 2	WAVE HEIGHT 2	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.90	33.588	22.33	464		-46	111	0.23	0.38	0.26	0.08	8.34
1	10	24.89	33.609	22.35	460		-42	110	0.23	0.38	0.22	0.07	8.36
1	20	24.85	33.623	22.37	444		-27	107	0.34	0.50	8.04	0.11	
1	30	21.01	33.931	23.70	332		112	75	0.90	4.89	9.66	0.43	8.25
1	40	19.59	34.540	24.54	160		293	35	1.67	12.55	17.14	0.51	
1	50	16.24	34.872	25.61	127	105.06	353	26	1.87	17.57	22.54	0.19	8.01
1	75	14.40	34.870	26.02	12	7.35	487	2	2.31	22.59	30.16	0.10	7.84
1	100	13.68	34.885	26.18	15	11.90	490	3	2.37	23.22	30.24	0.06	
1	125	13.33	34.837	26.26	11		498	2	2.42	24.60	31.74	0.03	7.85
1	150	13.09	34.883	26.30	12	7.10	500	2	2.39	25.23	32.34	0.02	
2	198	12.64	34.878	26.39	14	11.52	503	3	2.41	26.10	32.30	0.06	7.82
2	249	12.10	34.831	26.46	15		508	3	2.44	28.11	32.38	0.02	
2	296	11.51	34.777	26.53	6	3.44	524	1	2.58	31.37	32.59	0.02	7.69
2	345	10.91	34.757	26.62	4	3.14	532	1	2.64	34.26	30.12	0.05	
2	394	10.16	34.714	26.72	4	1.32	541	1	2.81	40.66	29.05	0.28	
2	490	8.53	34.645	26.94	4	0.93	562	1	3.11	54.84	26.56	1.18	7.66
2	592	7.29	34.603	27.09	3	1.53	581	0	3.29	63.86	35.52	0.03	
2	691	6.60	34.590	27.17	4	2.80	589	1	3.32	70.66	38.48	0.01	
2	792	5.86	34.589	27.27	12	7.99	593	2	3.40	78.06	42.43	0.01	
2	991	4.87	34.584	27.39	44	35.06	576	7	3.40	91.74	41.43	0.00	7.70

T G THOMPSON CRUISE 026

STATION 038

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.42	2.13
1	10		2.38	2.13
1	20			
1	30		2.40	2.27
1	40			
1	50		2.45	2.45
1	75		2.45	2.52
1	100			
1	125		2.45	2.52
1	150			
2	198		2.44	2.57
2	248			
2	296		2.44	2.55
2	345			
2	394			
2	490		2.46	2.59
2	592			
2	691			
2	792			
2	991		2.50	2.64

T G THOMPSON CRUISE 026 STATION 039 OBSERVED VALUES

DATE 05/02/68 BARO 1011.2 WEATHER WIND VELOC 06 WAVE PERIOD 2  
 HOUR 2.5 TEMP DRY 25.5 VISIBILITY 8 WIND DIREC 07 SECCHI  
 LAT 10-04.0N TEMP WET 23.7 CLOUD TYPE X WAVE DIREC 06 SOUNDCING 3145  
 LONG 087-40.0W REL HUMID 86 CLOUD AMT 9 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.84	34.113	23.04	412		10	98	0.74	8.41	8.15	0.13	8.22
1	10	22.44	34.277	23.57	392		40	91	0.96	10.42	11.47	0.13	8.22
1	20	19.40	34.574	24.61	217		237	48	1.50	11.42	18.26	0.36	
1	30	16.63	34.781	25.45	133		344	28	1.86	18.82	29.53	0.22	8.03
1	40	14.11	34.886	26.09	26		475	5	2.28	23.34	29.19	0.27	
1	50	13.78	34.893	26.17	12		492	2	2.38	24.10	31.47	0.22	7.85
1	75	13.48	34.890	26.23	15	13.51	492	3	2.35	24.60	31.63	0.05	7.85
1	100	13.18	34.883	26.28	9	7.61	501	2	2.42	25.35	32.25	0.02	
1	125	12.86	34.871	26.34	12	6.67	503	2	2.42	26.23	33.71	0.03	7.86
1	150	12.63	34.864	26.38	11	8.46	506	2	2.42	27.48	32.42	0.02	
2	195	12.20	34.822	26.43	14	10.45	508	3	2.44	28.74	34.47	0.03	7.83
2	242	11.89	34.815	26.48	12	7.52	513	2	2.50	29.99	34.07	0.01	
2	290	11.27	34.743	26.55	4	1.91	529	1	2.63	34.89	33.84	0.07	7.79
2	338	10.39	34.723	26.69	4	0.93	539	1	2.81	39.66	30.70	0.48	
2	387	9.72	34.708	26.79	4	0.55	547	1	2.96	45.68	27.59	1.15	
2	482	9.20	34.628	26.97	2	1.10	569	0	3.21	58.61	31.37	1.04	7.69
2	579	7.23	34.584	27.08	4	1.32	580	1	3.30	65.39	37.62	0.03	
2	677	6.47	34.572	27.17	6	4.08	590	1	3.33	71.91	37.65	0.00	
2	775	5.92	34.562	27.24	12	7.52	591	2	3.43	78.06	33.91	0.00	
2	972	4.86	34.563	27.37	35	30.39	584	6	3.41	93.87	37.36	0.00	7.75

T G THOMPSON CRUISE 026 STATION 039 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.41	2.22
1	10		2.41	2.28
1	20			
1	30		2.45	2.41
1	40			
1	50		2.44	2.52
1	75		2.45	2.59
1	100			
1	125		2.44	2.51
1	150			
2	195		2.45	2.58
2	242			
2	290		2.45	2.55
2	338			
2	387			
2	482		2.47	2.56
2	579			
2	677			
2	775			
2	972		2.47	2.61

T G THOMPSON CRUISE 026 STATION 040 OBSERVED VALUES

DATE 05/02/68 BARO 1010.7 WEATHER 01 WIND VELOC 04 WAVE PERIOD 2  
 HOUR 16.1 TEMP DRY 27.1 VISIBILITY 9 WIND DIREC 13 SECCHI 20  
 LAT 09-54.0N TEMP WET 23.6 CLOUD TYPE 1 WAVE DIREC 34 SOUNDING 4518  
 LONG 086-27.3W REL HUMID 74 CLOUD AMT 1 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
2	0	27.27	33.900	21.83	407		-6	102	0.36	3.14	2.91	0.07	8.36
2	10	23.81	34.190	23.11	343		79	81	0.73	6.90	8.13	0.11	8.29
2	20	17.07	34.711	25.29	166		307	35	1.77	16.94	22.43	0.18	
2	30	14.51	34.889	26.01	51		446	10	2.20	21.94	28.53	0.13	7.95
2	40	14.23	34.910	26.09	80		420	16	2.14	20.08	27.81	0.94	
2	50	14.04	34.914	26.13	62		440	12	2.14	21.21	28.40	0.60	
2	75	13.63	34.921	26.22	48		458	9	2.39	22.34	31.13	0.05	7.94
2	100	13.37	34.908	26.27	52		457	10	2.21	22.59	30.52	0.03	7.92
2	125	13.17	34.902	26.30	64		447	12	2.27	23.97	28.38	0.03	
2	150	13.00	34.889	26.33	54	43.73	459	10	2.25	24.10	30.07	0.02	7.90
3	198	12.49	34.862	26.40	26	22.18	492	5	2.36	26.35	31.96	0.02	7.89
3	247	11.93	34.823	26.48	22		503	4	2.42	28.49	32.98	0.05	
3	297	11.32	34.787	26.57	13	11.30	519	2	2.54	32.00	26.62	0.02	7.83
3	346	10.67	34.742	26.65	4		535	1	2.67	35.89	32.25	0.02	
3	395	9.90	34.701	26.76	2	0.72	547	0	2.86	42.29	27.32	0.88	
3	424	8.09	34.629	26.99	4	0.76	569	1	3.13	57.86	28.79	0.88	7.73
3	593	7.07	34.599	27.11	2	1.66	585	0	3.23	65.01	26.19	0.03	
3	692	6.25	34.584	27.21	13	10.03	585	2	3.32	73.17	38.89	0.02	
3	791	5.57	34.572	27.29	17	13.64	592	3	3.40	82.45	42.04	0.11	
2	993	4.61	34.571	27.40	57	50.62	566	9	3.40	96.89	40.88	0.13	7.77
1	2279	1.99	34.661	27.72	215		452	32	2.82	145.83	35.94	0.07	
1	3084	1.82	34.676	27.75	232		437	35	2.75	149.09	37.43	0.01	
1	3688	1.91	34.674	27.74	237		431	36	2.70	149.09	36.78	0.03	
1	4093	1.96	34.672	27.73	238		429	36	2.74	148.72	37.36	0.00	
1	4426	2.00	34.676	27.73	239		427	36	2.74	148.22	36.72	0.01	

T G THOMPSON CRUISE 026

STATION 040

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
2	0		2.34	2.23
2	10		2.36	2.30
2	20			
2	30		2.41	2.54
2	40			
2	50			2.58
2	75		2.40	2.58
2	100		2.40	
2	125			2.59
2	150		2.62	
3	198		2.42	2.62
3	247			
3	297		2.41	2.66
3	346			
3	395			
3	494		2.43	2.71
3	593			
3	692			
3	791			
3	993		2.47	2.73
1	2279			
1	3084			
1	3688			
1	4093			
1	4496			

T G THOMPSON CRUISE 026 STATION 041 OBSERVED VALUES

DATE 11/02/68 BARKO 1010.4 WEATHER XO WIND VELOC 06 WAVE PERIOD 3  
 HOUR 14.6 TEMP DRY 23.3 VISIBILITY 8 WIND DIREC 03 SECCHI 13  
 LAT 08-54.0N TEMP WET 21.8 CLOUD TYPE WAVE DIREC 05 SOUNDING 3181  
 LONG 097-50.0W REL HUMID 88 CLOUD AMT 0 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AGU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	C	21.81	34.442	23.87	386		50	89	0.98	9.91	11.21	0.14	8.15
1	10	19.02	34.691	24.80	269		187	59	1.47	14.43	18.99	0.17	8.03
1	20	14.47	34.916	26.05	52		446	10	2.13	20.21	28.86	0.05	
1	30	14.26	34.913	26.08	58		441	12	2.16	20.58	29.50	0.17	7.83
1	40	14.07	34.900	26.12	38		464	8	2.28	20.96	30.50	0.09	
1	50	13.81	34.894	26.16	36		468	7	2.29	22.34	30.55	0.04	7.83
1	75	13.35	34.898	26.26	35		474	7	2.29	23.59	31.20	0.02	7.82
1	100	13.09	34.899	26.31	36	23.59	475	7	2.31	23.84	31.57	0.03	
1	125	12.97	34.890	26.33	40	16.70	473	8	2.33	24.85	31.62	0.02	7.82
1	150	12.84	34.886	26.36	36	20.95*	479	7	2.36	25.35	28.54*	0.03	
2	200	12.42	34.857	26.42	15	11.01	505	3	2.36	27.36	31.20	0.02	7.75
2	251	11.91	34.821	26.49	22	15.64	503	4	2.44	29.62	31.84	0.01	
2	300	11.33	34.781	26.56	15	4.67	517	3	2.59	32.25	32.36	0.00	7.71
2	350	10.52	34.742	26.68	7	3.78	534	1	2.71	36.39	32.26	0.01	
2	400	9.59	34.684	26.79	7	0.21	546	1	3.13	45.93	29.36	0.61	
2	501	8.19	34.633	26.98	4	0.68	567	1	3.14	55.85	33.47	0.02	7.66
2	599	7.03	34.602	27.12	13	4.46	574	2	3.23	63.88	38.76	0.02	
2	700	6.35	34.582	27.20	25	16.79	572	4	3.27	71.16	40.16	0.01	
2	800	5.71	34.566	27.27	23	17.25	584	4	3.37	80.45	41.97	0.01	
2	1002	4.63	34.569	27.40	60	42.63	563	10	3.43	96.51	42.35	0.01	7.65

T G THOMPSON CRUISE 026 STATION 042 OBSERVED VALUES

DATE	11/02/68	BARO	1007.8	WEATHER	X1	WIND VELOC	04	WAVE PERIOD	3
HOUR	22.6	TEMP DRY	22.9	VISIBILITY	8	WIND DIREC	04	SECCHI	13
LAT	08-59.0N	TEMP WET	21.5	CLOUD TYPE	1	WAVE DIREC	04	SOUNDING	3383
LONG	088-27.0W	REL HUMID	88	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	ACU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.44	34.589	24.08	398		40	91	1.22	12.42	14.88	0.29	8.06
1	10	20.65	34.584	24.29	401		43	90	1.23	12.05	15.20	0.17	8.07
1	20	18.85	34.690	24.24	232		227	51	1.73	15.44	18.74	0.29	
1	30	14.73	34.905	25.98	53		442	11	2.13	20.46	20.87	0.46	7.83
1	40	14.74	34.927	26.10	38		461	8	2.21	20.33	26.28	0.11	
1	50	13.98	34.925	26.15	38		464	8	2.22	21.21	34.03	0.05	7.81
1	75	13.76	34.919	26.19	49		456	10	2.21	21.84	31.08	0.03	7.83
1	101	13.49	34.928	26.26	37		470	7	2.21	22.46	31.07	0.03	
1	126	13.23	34.903	26.29	52	28.56	458	10	2.35	23.59	26.87	0.02	7.80
1	151	13.04	34.890	26.32	37	25.58	475	7	2.28	23.97	34.25	0.02	
2	177	12.58	34.865	26.39	38	30.90	480	7	2.36	25.23	30.54	0.02	7.75
2	247	12.06	34.830	26.46	30	23.63	494	6	2.40	27.61	31.87	0.01	
2	275	11.47	34.789	26.54	14	17.64	516	3	2.54	30.50	29.25	0.00	7.73
2	345	10.94	34.753	26.61	15	12.20	522	3	3.32*	33.13*	37.18	0.00	
2	394	10.16	34.713	26.72	15	4.33	531	3	2.76	39.03	32.85	0.02	
2	493	3.56	34.637	26.92	13	0.76	553	2	3.09	54.22	32.35	1.15	7.64
2	592	7.33	34.605	27.08	7	1.87	576	1	3.27	62.50	37.42	0.02	
2	592	6.40	34.569	27.18	22	8.84	574	4	3.32	71.16	42.72	0.00	
2	793	5.72	34.566	27.27	30	15.04	577	5	3.45	79.94	45.61	0.00	
2	995	4.70	34.571	27.39	52	38.33	570	8	3.43	95.76	43.30	0.00	7.63

T G THOMPSON CRUISE 026 STATION 042 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	
1	10		2.42	
1	20			
1	30		2.43	
1	40			
1	50		2.44	
1	75			
1	101			
1	126		2.44	
1	151			
2	197		2.43	
2	247			
2	295		2.44	
2	345			
2	394			
2	493		2.48	
2	592			
2	692			
2	793			
2	995		2.50	

T G THOMPSON CRUISE 026 STATION 043 OBSERVED VALUES

DATE 12/02/68 BARO 1010.7 WEATHER WIND VELOC 02 WAVE PERIOD 3  
 HOUR 3.3 TEMP DRY 22.3 VISIBILITY 8 WIND DIREC 05 SECCHI  
 LAT 08-55.0N TEMP WET 21.5 CLOUD TYPE X WAVE DIREC 05 SOUNDING 3246  
 LONG 088-59.0W REL HUMID 93 CLOUD AMT 9 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.56	34.550	24.02	402		35	92	1.30	11.57	15.22	0.16	8.06
1	10	21.28	34.553	24.10	403		36	92	1.23	11.45	10.83	0.15	8.06
1	20	21.01	34.552	24.17	402		40	91	1.26	11.94	16.06	0.15	
1	30	20.96	34.551	24.18	393		49	89	1.28	11.69	15.09	0.14	8.06
1	40	20.88	34.554	24.21	394		49	89	1.30	11.94	15.57	0.15	
1	50	14.83	34.875	25.93	59		435	12	2.15	21.31	27.83	1.20	7.82
1	76	13.92	34.922	26.16	22		481	4	2.29	22.05	32.91	0.06	7.79
1	101	13.63	34.918	26.22	30	15.43	476	6	2.37	23.14	31.94	0.03	
1	126	13.35	34.908	26.27	47	37.10	462	9	2.20	22.90	29.94	0.02	7.82
1	151	13.13	34.897	26.31	22	33.91*	489	4	2.32	23.87	32.87	0.02	
2	197	12.72	34.870	26.37	44	21.25	471	9	2.43	26.80	33.79	0.01	7.78
2	247	12.15	34.831	26.45	39	22.10	483	8	2.41	27.65	31.96	0.01	
2	297	11.57	34.793	26.53	23	16.91	506	4	2.48	30.33	33.07	0.00	7.68
2	346	10.82	34.751	26.63	28	15.43	510	5	2.60	33.37	35.53	0.03	
2	397	10.13	34.713	26.73	16	8.63	530	3	2.73	38.00	34.81	0.01	
2	445					1.32					28.83	1.06	
2	495	8.30	34.626	26.96	4	0.59	566	1	3.12	55.66	32.17	0.49	7.61
2	544					2.38					38.99	0.01	
2	593	7.19	34.594	27.09	5	4.89	580	1	3.28	63.70	38.24	0.00	
2	693	6.34	34.577	27.20	9	7.61	588	1	3.30	72.59	43.99	0.02	
2	791	5.71	34.561	27.26	21	14.58	586	3	3.30	79.41	44.06	0.02	
2	890	4.69	34.557	27.38	41	34.13	581	7	3.32	95.86	43.80	0.01	7.64

T G THOMPSON CRUISE 026 STATION 043 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0			
1	10			
1	20			
1	30			
1	40			
1	50			
1	76			
1	101			
1	126			
1	151			
2	197		2.41	2.29
2	247			
2	297		2.37	2.32
2	346			
2	397			2.32
2	445			
2	495		2.39	2.37
2	544			
2	593			
2	693			
2	791			
2	990			

T G THOMPSON CRUISE 026 STATION 044 OBSERVED VALUES

DATE 12/02/68 BARO 1008.8 WEATHER WIND VELOC 04 WAVE PERIOD 3  
 HOUR 10.1 TEMP DRY 22.9 VISIBILITY 8 WIND DIREC 05 SECCHI  
 LAT 08-55.0N TEMP WET 22.0 CLOUD TYPE X WAVE DIREC 05 SOUNDING 3338  
 LONG 089-34.0W RFL HUMID 92 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.27	34.499	23.78	423		9	98	1.19	9.99	13.32	0.21	8.18
1	10	22.28	34.498	23.78	422		10	98	1.17	10.11	14.89	0.19	8.20
1	19	21.99	34.509	23.87	426		9	98	1.19	11.21	15.52	0.20	
1	29	21.76	34.523	23.94	414		22	95	1.21	10.84	13.60	0.19	8.18
1	39	16.00	34.881	25.68	147		336	30	1.77	16.93	22.82	0.10	
1	48	14.74	34.908	25.98	104	88.91	390	21	1.96	19.00	25.91	0.30	7.95
1	73	13.84	34.922	26.18	58		446	11	2.19	21.56	29.12	0.08	7.94
1	98	13.56	34.918	26.23	38	28.26	468	8	2.22	22.65	28.24	0.05	
1	122	13.33	34.913	26.28	59	46.92	450	12	2.12	22.29	27.90	0.03	7.92
1	146	13.11	34.904	26.32	63	50.49	449	12	2.21	23.26	29.95	0.02	
2	194	12.70	34.872	26.37	44	27.92	472	9	2.33	25.70	30.25	0.05	7.89
2	244	12.25	34.847	26.44	28	11.52	493	5	2.40	28.14	30.79	0.03	
2	293	11.58	34.804	26.54	26	12.45*	503	5	2.50	30.21	32.57	0.02	7.85
2	343	10.79	34.756	26.64	18	5.82	520	3	2.65	34.23	32.69	0.03	
2	393	10.16	34.724	26.73	21	8.63	524	4	2.72	38.12	32.96	0.03	
2	442					1.74					35.18	0.10	
2	493	8.73	34.647	26.90	19	0.72	546	3	3.09	53.23	27.48	1.22	7.75
2	543					0.72					37.36	0.07	
2	592	7.11	34.598	27.11	13	2.12	573	2	3.26	65.77	38.31	0.04	
2	693	6.32	34.578	27.20	15	5.91	583	2	3.30	72.47	44.76	0.02	
2	793	5.71	34.565	27.27	30	15.47	576	5	3.38	81.24	42.59	0.02	
2	994	4.70	34.570	27.39	67	42.92	555	11	3.38	94.03	39.44	0.02	7.74

T G THOMPSON CRUISE 026 STATION 044 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MFG/L	CO2 MMOL/L
1	0			
1	10			
1	19			
1	29			
1	39			
1	48			
1	73			
1	98			
1	122			
1	146			
2	194		2.36	
2	244			
2	293		2.36	
2	343			
2	393			
2	442			
2	493		2.39	
2	543			
2	592			
2	693			
2	793			
2	994			

T G THOMPSON CRUISE 026 STATION 045 OBSERVED VALUES

DATE 12/02/6P BARO 1012.7 WEATHER x1 WIND VELOC 05 WAVE PERIOD 3  
 HOUR 16.6 TEMP DRY 23.5 VISIBILITY 8 WIND DIREC 04 SECCHI 13  
 LAT 08-55.0N TEMP WET 21.1 CLOUD TYPE 1 WAVE DIREC 36 SOUNDING 3292  
 LONG 090-13.0W REL HUMID 81 CLOUD AMT 1 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.04	34.483	23.26	442		-21	105	0.92	1.10	11.40	0.20	8.22
1	10	23.86	34.483	23.31	444		-21	105	0.94	1.22	10.91	0.15	8.22
1	20	23.72	34.476	23.35	439		-16	104	0.97	1.46	11.00	0.18	
1	30	22.41	34.533	23.77	399		33	92	1.23	5.12	13.93	0.17	8.19
1	40	16.63	34.854	25.51	170		307	36	1.81	16.56	22.43	0.09	
1	50	14.47	34.919	26.04	65		433	13	2.09	19.61	26.94	0.47	7.93
1	74	13.82	34.928	26.19	36		452	7	2.26	21.63	30.14	0.06	7.89
1	99	13.57	34.926	26.24	40	25.88	467	8	2.26	25.09	30.73	0.04	
1	124	13.36	34.915	26.27	37		472	7	2.28	22.90	30.89	0.04	7.89
1	149	13.13	34.902	26.31	38	24.14	473	7	2.31	23.87	29.53	0.05	
2	202	12.64	34.879	26.39	27	17.13	490	5	2.39	25.33	30.74	0.03	7.87
2	254	11.92	34.823	26.49	19	14.92	506	4	2.47	28.62	33.23	0.03	
2	305	11.19	34.780	26.59	16	11.73	517	3	2.62	31.30	33.21	0.03	7.81
2	355	10.60	34.748	26.67	4	1.53	536	1	2.97	37.51	30.58	0.06	
2	406	9.69	34.699	26.79	7	3.14	545	1	2.84	41.53	31.81	0.03	
2	457					1.74					32.58	0.14	
2	507	8.26	34.634	26.97	7	0.38	564	1	3.04	53.35	33.83	0.04	7.74
2	559					2.12					34.38	0.03	
2	609	7.01	34.596	27.12	7	2.08	581	1	3.28	64.68	35.93	0.03	
2	711	6.24	34.582	27.21	16	7.27	582	3	3.34	71.50	42.54	0.03	
2	811	5.54	34.568	27.29	26	18.74	583	4	3.40	78.93	42.23	0.00	
2	1012	4.71	34.575	27.39	65	56.82	557	10	3.35	70.38	39.73	0.00	7.77

T G THOMPSON CRUISE 026 STATION 046 OBSERVED VALUES

DATE	13/02/69	BARO	1012.9	WEATHER	X1	WIND VELOC	03	WAVE PERIOD	3
HOUR	15.1	TEMP DRY	24.5	VISIBILITY	8	WIND DIREC	28	SECCHI	30
LAT	09-00.0N	TEMP WET	23.3	CLOUD TYPE	1	WAVE DIREC	35	SOUNDING	3036
LONG	086-59.0W	REL HUMID	90	CLOUD AMT	1	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL P/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	ACU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.90	34.343	23.19	387		35	92	0.85	7.43	9.42	0.20	8.20
1	10	16.91	34.853	25.44	133		342	28	1.78	15.59	21.57	0.16	8.01
1	20	14.99	34.911	25.92	62		430	13	2.19	19.00	26.56	0.08	
1	30	14.49	34.916	26.04	45		452	9	2.19	20.10	29.30	0.03	7.91
1	40	14.26	34.924	26.09	42		457	8	2.22	20.22	30.11	0.15	
1	50	14.02	34.918	26.14	36		466	7	2.22	22.29	27.88	0.11	7.88
1	76	13.70	34.921	26.21	45	30.60	460	9	2.79*	22.29	28.45	0.08	7.91
1	101	13.42	34.908	26.25	36	29.28	472	7	2.27	23.02	30.27	0.07	
1	126	13.18	34.903	26.30	30	18.57	481	6	2.31	24.12	31.29	0.06	7.87
1	151	12.94	34.895	26.34	36	22.86	477	7	2.30	24.36	29.32	0.09	
2	199	12.41	34.855	26.42		31.83	487	6	2.30	25.58	31.32	0.03	7.85
2	250	11.89	34.813	26.48		43.05	482	8	2.30	27.16	29.14	0.02	
2	300	11.12	34.775	26.60		11.56	523	2	2.59	33.74	32.10	0.00	7.82
2	350	10.36	34.732	26.70		7.99	535	1	2.69	36.05	32.36	0.00	
2	400	9.68	34.698	26.79		4.93	547	1	2.85	41.05	33.49	0.00	
2	450					1.44					31.01	0.00	
2	500	8.22	34.629	26.97		0.04	571	0	3.24	55.54	28.86	0.77	7.72
2	550					1.27					36.35	0.00	
2	598	7.08	34.602	27.12		1.40	585	0	3.24	63.46	35.38	0.00	
2	699	6.27	34.581	27.21		9.43	589	2	3.34	71.50	40.47	0.00	
2	799	5.46	34.571	27.30	29	20.40	582	5	3.42	79.66	43.89	0.11	
2	998	4.51	34.575	27.42	58	51.34	567	9	3.48	81.61	38.43	0.10	7.76

T G THOMPSON CRUISE C26 STATION C47 OBSERVED VALUES

DATE 13/02/68 BARO 1009.8 WEATHER XO WIND VELOC 06 WAVE PERIOD 3  
 HOUR 22.00 TEMP DRY 24.4 VISIBILITY 8 WIND DIREC 04 SECCHI  
 LAT 08-54.0N TEMP WET 22.9 CLOUD TYPE WAVE DIREC 31 SOUNDING 3200  
 LONG 087-50.0W REL HUMID 88 CLOUD AMT 0 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.35	34.612	23.85	413		19	96	1.19	13.15	15.25	0.22	8.14
1	10	20.40	34.610	24.38	387		59	87	1.23	12.79	14.16	0.12	
1	20	15.24	34.863	25.83	73		417	15	2.15	20.71	24.89	0.16	
1	30	14.29	34.914	26.08	45		454	9	2.18	21.07	30.94	0.32	
1	40	14.03	34.919	26.14	44		457	9	2.17	20.83	30.09	0.12	
1	50	13.79	34.922	26.19	36		468	7	2.20	21.68	29.06	0.03	7.89
1	76	13.53	34.913	26.24	39		468	8	2.44	22.78	29.63	0.03	7.88
1	101	13.29	34.900	26.28	36	28.09	473	7	2.26	23.99	31.12	0.01	
1	126	13.02	34.892	26.32	37	15.68	475	7	2.34	24.73	31.72	0.01	
1	151	12.89	34.893	26.35	42	29.66	472	8	2.28	24.36	29.03	0.01	
2	200	12.44	34.852	26.41		12.32	507	2	2.47	27.04	23.97*	0.02	7.84
2	250	11.86	34.813	26.49		20.31	505	4	2.44	28.38	31.66	0.00	
2	302	11.12	34.764	26.59		7.14	527	1	2.67	32.03	33.49	0.00	7.80
2	352	10.39	34.726	26.69		3.65	497	1	2.75	36.78	29.97	0.00	
2	402	9.57	34.690	26.80		0.47	553	0	2.96	43.85	28.68	0.28	7.73
2	451					2.17					38.22*	0.00	
2	502	8.07	34.626	26.99		0.30	573	0	3.18	56.88	34.36	0.01	7.73
2	552					4.59					29.83*	0.06	
2	603	7.00	34.597	27.12		9.05	579	2	3.21	63.46	38.00	0.00	7.72
2	703	6.23	34.579	27.21		21.63	577	4	3.30	70.52	40.48	0.00	
2	803	5.61	34.564	27.28	30	18.27	578	5	3.36	78.44	42.65	0.00	
2	1005	4.57	34.573	27.41	53	47.13	572	8	3.42	93.54	40.66	0.00	7.79

T G THOMPSON CRUISE 026 STATION 047 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	2.23
1	10			
1	20			
1	30			
1	40			
1	50		2.44	2.38
1	76		2.40	2.41
1	101			
1	126			2.41
1	151			
2	200		2.42	2.40
2	250			
2	302		2.41	2.45
2	352			
2	402		2.42	2.46
2	451			
2	502		2.43	2.49
2	552			
2	603		2.43	2.50
2	703			
2	803			
2	1005		2.47	2.57

T G THOMPSON CRUISE 026 STATION 048 OBSERVED VALUES

DATE 14/02/68 BARO 1011.7 WEATHER WIND VELOC 03 WAVE PERIOD 4  
 HOUR 08-53.4.5 TEMP DRY 23.0 VISIBILITY 8 WIND DIREC 05 SECCHI  
 LAT 08-53. N TEMP WET 22.5 CLOUD TYPE X WAVE DIREC 36 SOUNDING 3365  
 LONG 088-26. W REL HUMID 96 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.34	34.581	24.10	411		28	94	1.47	11.33	16.51	0.26	8.13
1	10	20.75	34.588	24.27	403		40	91	1.41	11.94	15.85	0.20	
1	20	15.04	34.864	25.88	29		463	6	2.38	20.34	28.81	0.28	
1	30	14.43	34.918	26.05	60		438	12	2.20	20.58	29.21	0.59	
1	40	14.16	34.922	26.11	51		449	10	2.16	21.07	30.45	0.23	
1	50	14.03	34.923	26.14	38		464	8	2.20	21.31	30.32	0.23	7.89
1	75	13.72	34.921	26.20	39		466	8	2.25	22.05	30.81	0.05	7.87
1	100	13.42	34.909	26.26	45	37.06	464	9	2.25	22.53	31.89	0.08	
1	125	13.18	34.900	26.30	47	31.32	464	9	2.25	23.51	30.87	0.06	7.89
1	150	12.99	34.890	26.33	40	30.81	473	8	2.25	23.99	31.52	0.05	
2	201	12.49	34.859	26.40		20.91	497	4	2.41	26.67	31.06	0.11	7.84
2	252	11.94	34.819	26.48		22.40	502	4	2.42	28.14	32.62	0.01	
2	302	11.43	34.786	26.55		14.32	516	3	2.50	31.06	33.31	0.01	7.81
2	353	10.67	34.743	26.65		10.07	530	2	4.06*	32.16	32.86*	0.00	
2	403	9.98	34.704	26.74		1.27	547	0	2.90	40.19	31.53	0.00	7.76
2	453					0.55					32.97	0.11	
2	504	8.02	34.619	26.99		2.29	571	0	3.18	57.73	34.56	0.57	7.73
2	554					2.80					36.54	0.04	
2	603	6.91	34.585	27.12		2.51	587	0	3.31	64.68	38.39	0.01	7.69
2	705	6.13	34.567	27.22		9.18	591	2	3.33	72.84	41.81	0.00	
2	805	5.51	34.565	27.29	26	16.15	584	4	3.46	81.24	43.24	0.00	
2	1007	4.45	34.566	27.41	46	40.88	580	7	3.61	96.71	45.88	0.01	7.71

T G THOMPSON CRUISE 026 STATION 048 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.41	2.26
1	10			
1	20			
1	30			
1	40			
1	50		2.41	2.38
1	75		2.41	2.39
1	100			
1	125		2.41	2.43
1	150			
2	201		2.39	2.41
2	252			
2	302		2.41	2.42
2	353			
2	403		2.40	2.48
2	453			
2	504		2.45	2.52
2	554			
2	603		2.43	2.53
2	705			
2	805			
2	1007		2.48	2.54

T G THOMPSON CRUISE 026 STATION 049 OBSERVED VALUES

DATE	14/02/68	BARO	1011.8	WEATHER	X1	WIND VELOC	03	WAVE PERIOD	3
HOUR	12.7	TEMP DRY	24.5	VISIBILITY	8	WIND DIREC	07	SECCHI	25
LAT	08-56.0N	TEMP WET	23.2	CLOUD TYPE	6	WAVE DIREC	03	SOUNDING	3329
LONG	089-08.0W	REL HUMID	90	CLOUD AMT	5	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.53	34.579	23.77	416		14	97	1.28		15.28	0.23	8.13
1	10	21.54	34.563	24.03	410		28	94	1.26		15.49	0.16	
1	20	21.23	34.565	24.12	394		46	90	1.37		16.20	0.16	
1	30	20.34	34.602	24.39	376		70	84	1.43		17.18	0.16	
1	40	14.84	34.912	25.96	119		375	24	1.92		25.64	0.03	
1	50	14.25	34.939	26.10	73		427	15	2.12		29.81	0.30	7.90
1	75	13.83	34.924	26.18	55		449	11	2.22		30.80	0.06	7.88
1	100	13.63	34.923	26.22	44	30.56	462	9	2.23		31.57	0.04	
1	125	13.36	34.917	26.27	51	39.61	458	10	2.24		30.77	0.03	7.87
1	150	13.15	34.906	26.31	50	38.55	461	10	2.26		31.42	0.02	
2	199	12.68	34.875	26.38		17.21	499	3	2.39		33.07	0.01	7.83
2	249	11.99	34.829	26.48		17.93	506	3	2.48		34.12	0.02	
2	298	11.23	34.784	26.58		16.45	516	3	2.63		33.14	0.01	7.80
2	348	10.68	34.748	26.66		11.77	528	2	3.57*		34.26	0.15	
2	400	10.14	34.727	26.73		7.82	538	1	2.77		33.54	0.03	7.75
2	449					2.97					31.91	0.60	
2	499	8.29	34.638	26.97		0.93	569	0	3.25		32.71	0.53	7.71
2	549					3.36					37.09	0.11	
2	599	7.08	34.594	27.11		1.70	585	0	3.32		38.88	0.19	7.72
2	700	6.31	34.579	27.20		5.82	592	1	3.38		43.13	0.15	
2	801	5.62	34.569	27.28	25	12.41	583	4	3.62		43.41	0.12	
2	1002	4.56	34.568	27.40	60	47.05	564	10	3.48		44.52	0.18	7.72

T G THOMPSON CRUISE 026 STATION 049 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.38	2.21
1	10			
1	20			
1	30			
1	40			
1	50		2.38	2.35
1	75		2.38	2.37
1	100			
1	125		2.38	2.38
1	150			
2	199		2.38	2.46
2	249			
2	298		2.39	2.43
2	348			
2	400		2.42	2.46
2	449			
2	499		2.41	2.53
2	549			
2	599		2.44	2.55
2	700			
2	801			
2	1002		2.47	2.57

T G THOMPSON CRUISE 026 STATION 050 OBSERVED VALUES

DATE	14/02/68	BARO	1012.6	WEATHER	X0	WIND VELOC	11	WAVE PERIOD	2
HOUR	17.6	TEMP DRY	28.5	VISIBILITY	8	WIND DIREC	70	SECCHI	12
LAT	08-55. N	TEMP WET	24.5	CLOUD TYPE		WAVE DIREC	04	SOUNDING	3310
LONG	089-34. W	REL HUMID	72	CLOUD AMT	0	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.20	34.425	23.46	463		-36	109	1.50	4.14	12.78	0.21	8.18
1	10	22.86	34.451	23.58	452		-29	107	1.07	6.33	11.21	0.18	
1	20	22.31	34.511	23.78	444		-11	103	1.23	8.28	13.42	0.20	
1	30	16.68	34.850	25.49	193		283	41	1.73	15.59	23.82	0.09	
1	40	14.80	34.896	25.95	130		364	26	1.91	19.76	24.97	0.20	
1	50	14.30	34.911	26.07	112		387	22	2.01	19.61	25.37	0.48	7.95
1	75	13.85	34.928	26.18	42		461	8	2.29	21.44	25.89	0.08	7.89
2	101	13.65	34.931	26.22	38	19.97	468	7	2.31	22.41	29.78	0.05	
2	126	13.36	34.913	26.27	39	28.90*	469	8	2.32	22.90	31.56	0.04	7.87
2	151	13.16	34.903	26.31	45	25.24	466	9	2.36	23.39	30.52	0.03	
3	202	12.67	34.874	26.38		16.36	500	3	2.40	25.94	31.11	0.03	7.83
3	253	12.02	34.830	26.47		10.71	513	2	2.54	28.50	31.18	0.00	
3	303	11.35	34.794	26.57		4.25	527	1	2.50	28.62	31.01	0.00	7.77
3	353	10.54	34.739	26.67		5.86	535	1	2.87	34.47	33.62	0.00	
3	405	9.96	34.713	26.75		5.78	543	1	2.80	38.98	33.41	0.00	7.75
3	456					4.55					27.49	1.01	
3	506	8.35	34.636	26.96		0.34	569	0	3.20	52.86	29.07	1.11	7.71
3	557					1.87					35.17	0.04	
3	607	7.03	34.594	27.12		1.44	586	0	3.33	61.39	39.28	0.01	7.71
3	710	6.19	34.574	27.21		7.56	592	1	3.38	69.55	39.50	0.00	
3	811	5.50	34.564	27.29	23	18.66	587	4	3.47	75.88	32.68*	0.01	
3	1012	4.64	34.571	27.40	26	41.52	597	4	3.46	88.06	42.17	0.02	7.76

T G THOMPSON CRUISE 026

STATION 050

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.37	2.24
1	10			
1	20			
1	30			
1	40			
1	50		2.40	2.36
1	75		2.39	2.46
2	101			
2	126		2.39	2.46
2	151			
3	202		2.39	2.47
3	253			
3	303		2.40	2.47
3	353			
3	405		2.40	2.50
3	456			
3	506		2.45	2.56
3	557			
3	607		2.42	2.56
3	710			
3	811			
3	1012		2.45	2.60

T G THOMPSON CRUISE 026 STATION 051 OBSERVED VALUES

DATE 14/C2/68 BARO 1009.3 WEATHER X1 WIND VELOC 12 WAVE PERIOD 3  
 HOUR 23.4 TEMP DRY 25.1 VISIBILITY 8 WIND DIREC 07 SECCHI  
 LAT 08-51.0N TEMP WET 23.9 CLOUD TYPE 0 WAVE DIREC 07 SOUNDING 3272  
 LONG 090-15.0W REL HUMID 90 CLOUD AMT 1 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.18	34.478	23.21	471		-51	112	1.10	3.04	10.00	0.17	8.23
1	10	24.13	34.487	23.24	460		-40	110	1.35	3.41	10.48	0.15	
1	20	23.79	34.538	23.38	466		-43	111	1.07	2.68	11.83	0.15	
1	30	20.83	34.503	24.18	396		47	89	1.54	10.60	14.39	0.11	
1	40	17.66	34.810	25.23	214		254	46	1.91	12.79	20.40	0.06	
1	50	14.66	34.908	25.99	53		443	11	2.10	19.49	25.74	0.49	7.93
1	75	13.94	34.912	26.15	35		468	7	2.86*	21.56	29.72	0.03	7.92
1	100	13.58	34.908	26.22	45	30.17	461	9	2.55*	22.41	28.77	0.01	
1	125	13.28	34.895	26.27	37	24.73	473	7	2.30	23.75	29.53	0.01	7.91
1	150	12.99	34.886	26.33	30	21.16	482	6	2.40	23.99	31.18	0.00	
2	197	12.49	34.856	26.40		13.47	505	3	2.45	27.16	31.55	0.05	7.87
2	247	11.83	34.817	26.50		15.17	511	3	2.54	29.23	30.75	0.01	
2	296	10.99	34.765	26.61		11.13	525	2	2.73	33.13	31.01	0.00	7.83
2	345	10.49	34.740	26.68		1.57	538	1	3.62*	38.98	30.95	0.02	
2	396	9.70	34.699	26.79		3.10*	548	1	3.34*	41.66	32.35	0.01	7.78
2	446					1.53					27.97	0.82	
2	496	8.42	34.637	26.95		1.15	567	0	3.10	53.10	30.86	0.02	7.74
2	546					0.59*					33.61	0.01	
2	595	7.03	34.592	27.11		2.80	585	0	3.32	64.19	37.61	0.00	7.73
2	697	6.36	34.575	27.19		6.97	590	1	3.56	70.40	39.16	0.00	
2	797	5.72	34.570	27.27	23	15.21	584	4	3.52	77.46	39.69	0.02	
2	1000	4.69	34.573	27.39	65	57.59	557	11	3.28	91.96	36.05*	0.00	7.77

T G THOMPSON CRUISE 026 STATION 051 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	2.24
1	10			
1	20			
1	30			
1	40			
1	50		2.39	2.49
1	75		2.41	2.49
1	100			
1	125		2.44	2.52
1	150			
2	197		2.41	2.48
2	247			
2	296		2.42	2.54
2	345			
2	396		2.42	2.58
2	446			
2	496		2.45	2.55
2	546			
2	595		2.45	2.59
2	697			
2	797			
2	1000		2.48	2.64

T G THOMPSON CRUISE 026 STATION 052 OBSERVED VALUES

DATE 16/02/69	BARO 1008.5	WEATHER	WIND VELOC 07	WAVE PERIOD 3
HOUR 0.0	TEMP DRY 26.6	VISIBILITY 8	WIND DIREC 05	SECCHI
LAT 08-48. N	TEMP WET 24.4	CLOUD TYPE X	WAVE DIREC 36	SOUNDING 3064
LONG 087-10. W	REL HUMID 83	CLOUD AMT 9	WAVE HEIGHT 1	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.85	34.364	22.93	399		16	96	0.86	7.43	9.69	0.19	8.22
1	10	18.64	34.733	24.93	258		202	56	1.41	12.91	18.06	0.14	8.11
1	20	15.04	34.915	25.92	167		325	34	1.73	15.71	23.05	0.06	
1	30	14.46	34.912	26.04	111		386	22	1.93	17.90	26.06	0.20	7.98
1	40	14.12	34.923	26.12	55		446	11	2.16	19.37	29.13	0.12	
1	50	13.97	34.932	26.16	54		448	11	2.14	21.19	29.26	0.07	7.93
1	75	13.61	34.927	26.23	61		445	12	2.13	20.83	28.76	0.02	7.93
1	100	13.37	34.909	26.27	43	33.70	465	9	2.19	22.65	28.88	0.03	7.91
1	125	13.17	34.907	26.31	41	33.06	470	8	2.21	23.02	30.60	0.03	7.93
1	150	12.89	34.884	26.34	21	12.79	493	4	2.30	23.75	31.85	0.04	
2	199	12.41	34.855	26.42		31.45	488	6	2.39	24.36	30.98	0.03	
2	249	11.84	34.822	26.50		35.40	490	7	2.34	26.67	31.20	0.02	
2	299	11.24	34.782	26.58		17.72	515	3	2.50	29.96	33.02	0.01	
2	348	10.45	34.734	26.69		6.97	535	1	2.65	34.35	32.72	0.01	7.81
2	399	9.66	34.695	26.79		5.69	546	1	2.81	40.07	33.41	0.00	
2	449					0.85					31.14	0.08	
2	499	8.18	34.628	26.97		1.32	570	0	3.11	54.20	32.09	0.78	7.77
2	549					1.70					36.07	0.03	
2	599	6.97	34.595	27.13		3.57	585	1	3.21	62.73	39.33	0.00	
2	701	6.17	34.579	27.22		10.41	589	2	3.45	71.01	41.64	0.00	
2	801	5.57	34.573	27.29	28	17.21	581	5	3.35	78.20	43.51	0.02	
2	1002	4.46	34.569	27.42	60	47.39	566	10	3.33	96.22	42.67	0.02	7.78

T G THOMPSON CRUISE 026 STATION 052 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.40	2.24
1	10		2.41	2.35
1	20			
1	30		2.42	2.42
1	40			
1	50		2.41	2.45
1	75		2.42	2.43
1	100		2.42	2.45
1	125		2.45	2.45
1	150			
2	199			
2	249			
2	299			
2	348		2.43	2.52
2	399			
2	449			
2	499		2.45	2.57
2	549			
2	599			
2	701			
2	801			
2	1002		2.49	2.59

## T G THOMPSON CRUISE 026

## STATION 053

## OBSERVED VALUES

DATE 16/02/68  
 HOUR 09.4  
 LAT 08-54. N  
 LONG 087-50. W

BARO 1009.0  
 TEMP DRY 23.5  
 TEMP WET 22.1  
 REL HUMID 89

WEATHER  
 VISIBILITY 8  
 CLOUD TYPE X  
 CLOUD AMT 9

WIND VELOC 04  
 WIND DIREC 06  
 WAVE DIREC 36  
 WAVE HEIGHT 2

WAVE PERIOD 3  
 SECCHI  
 SOUNDING 3200

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.52	34.654	24.11	416		21	95	1.14	12.30	16.03	0.15	8.15
1	10	17.68	34.738	25.17	273		195	58	1.40	13.40	18.88	0.03	
1	20	14.74	34.868	25.95	6		489	1	2.30	22.17	30.28	0.19	
1	30	13.98	34.880	26.12	14		488	3	2.24	22.29	31.45	0.62	7.87
1	40	13.88	34.894	26.15	33		470	7	2.19	20.83	29.74	0.05	
1	50	13.70	34.916	26.20	46		459	9	2.08	20.46	29.78	0.01	7.90
1	75	13.42	34.918	26.26	40		468	8	2.04	21.44	30.65	0.02	7.91
1	100	13.25	34.907	26.29	30	25.97	480	6	2.15	22.29	30.80	0.00	7.88
1	125	13.04	34.898	26.32	30	25.75	482	6	2.19	23.63	30.83	0.01	7.89
3	149	12.97	34.888	26.33	62	18.61	451	12	2.27	23.75	30.84	0.00	
3	198	12.39	34.958	26.42		8.63	511	2	2.29	26.31	32.47	0.01	7.84
3	250	11.74	34.816	26.51		13.09	514	2	2.32	28.26	32.60	0.01	
3	300	11.21	34.781	26.59		14.24	519	3	2.45	33.13	33.03	0.00	7.80
4	354	9.93	34.714	26.76		0.26	548	0	2.76	39.95	32.36	0.12	
4	405	9.07	34.665	26.86		0.34	559	0	2.86	46.65	31.09	0.26	
4	456					0.26					33.93	0.11	
4	507	7.64	34.618	27.05		1.27	578	0	3.09	57.85	34.18	0.02	7.74
4	557					4.63					37.84	0.02	
4	608	6.81	34.599	27.15		10.84	580	2	3.16	64.07	41.16	0.15	
4	708	6.20	34.587	27.22		22.99	576	4	3.16	70.52	38.87	0.21	
4	809	5.62	34.573	27.28	30	17.93	578	5	3.26	79.66	40.37	0.01	
4	1012	4.60	34.572	27.40	55	42.46	569	9	3.31	94.76	42.73	0.05	7.75

T G THOMPSON CRUISE 026 STATION 053 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.43	2.26
1	10			
1	20			
1	30		2.43	2.41
1	40			
1	50		2.42	2.40
1	75		2.44	2.40
1	100		2.46	2.45
1	125		2.44	2.49
3	149			
3	198		2.44	2.46
3	250			
3	300		2.44	2.49
4	354			
4	405			
4	456			
4	507		2.46	2.53
4	557			
4	608			
4	708			
4	809			
4	1012		2.50	2.62

T G THOMPSON CRUISE 026 STATION 054 OBSERVED VALUES

DATE	16/02/68	BARO	1010.7	WEATHER	X0	WIND VELOC	18	WAVE PERIOD	3
HOUR	19.8	TEMP DRY	25.8	VISIBILITY	8	WIND DIREC	08	SECCHI	14
LAT	09-30.0N	TEMP WET	23.0	CLOUD TYPE		WAVE DIREC	02	SOUNDING	3200
LONG	088-25.5W	REL HUMID	79	CLOUD AMT	0	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.82	34.444	23.59	418		11	98	1.24	8.16	11.73	0.16	8.21
1	10	22.60	34.441	23.64	418		12	97	1.11	8.04	12.23	0.13	
1	20	20.49	34.475	24.25	338		108	76	1.35	10.23	19.49	0.18	
1	30	19.04	34.657	24.77	326		131	71	1.57	12.67	27.06	0.17	8.10
1	40	15.97	34.863	25.67	123		360	26	1.96	15.96	23.81	1.16	
1	50	14.79	34.864	25.93	20		475	4	2.40	20.34	28.40	0.39	7.87
1	75	13.53	34.984	26.21	19		488	4	2.51	21.56	30.23	0.02	7.86
1	100	13.28	34.890	26.27	24	14.66	486	5	2.49	22.29	31.58	0.02	7.87
1	126	12.95	34.872	26.32	30	21.38	484	6	2.48	22.29	32.08	0.02	7.88
1	151	12.80	34.874	26.35	33	22.91	482	6	2.35	23.14	32.13	0.02	
2	202	12.26	34.840	26.43		7.56	513	1	2.85	26.19	33.91	0.04	7.83
2	252	11.67	34.798	26.51		1.49	526	0	2.49	28.74	34.93	0.03	
2	303	11.12	34.773	26.60		1.70	532	0	2.58	31.91	32.98	0.01	7.80
2	353	10.09	34.712	26.73		0.68	546	0	2.80	39.10	28.04	0.71	
2	405	9.44	34.681	26.82		0.93	554	0	2.95	44.46	28.02	1.32	
2	455					0.93			3.04		28.63	1.43	
2	505	7.84	34.622	27.02		0.68	575	0	3.21	58.22	31.98	1.02	7.76
2	557					1.83			3.20		36.34	0.01	
2	607	6.87	34.588	27.13		2.00	588	0	3.25	65.28	39.83	0.01	
2	708	6.06	34.574	27.23		6.50	595	1	3.36	73.93	40.34	0.00	
2	810	5.39	34.573	27.31	22	11.73	590	4	3.41	80.51	43.36	0.00	
2	1007	4.40	34.572	27.43	61	49.09	566	10	3.30	96.59	44.24	0.01	7.76

T G THOMPSON CRUISE 026 STATION 054 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.38	2.23
1	10			
1	20			
1	30		2.40	2.31
1	40			
1	50		2.41	2.44
1	75		2.40	2.46
1	100		2.41	2.46
1	126		2.41	2.45
1	151			
2	202		2.41	2.48
2	252			
2	303		2.42	2.48
2	353			
2	405			
2	455			
2	505		2.44	2.56
2	557			
2	607			
2	708			
2	810			
2	1007		2.48	2.60

T G THOMPSON CRUISE 026 STATION 055 OBSERVED VALUES

DATE 17/02/68 BARO 1009.2 WEATHER X1 WIND VELOC 08 WAVE PERIOD 3  
 HOUR 0.6 TEMP DRY 24.5 VISIBILITY 8 WIND DIREC 08 SECCHI  
 LAT 09-00.0N TEMP WET 22.8 CLOUD TYPE 0 WAVE DIREC 02 SOUNDING 3338  
 LONG 088-29.0W REL HUMID 86 CLOUD AMT 2 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	ACU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.48	34.545	23.76	510		-78	118	0.98	0.97	9.57	0.27	8.24
1	10	21.62	34.511	23.97	503		-64	115	0.84	0.00	8.81	0.27	8.27
1	20	17.55	34.750	25.21	50		419	11	2.18	17.42	26.28	0.58	
1	30	15.75	34.831	25.69	7		478	1	2.46	21.68	27.31	0.98	7.85
1	40	14.99	34.864	25.89	10		482	2	2.39	22.05	29.83	0.09	
1	50	14.30	34.876	26.05	9		491	2	2.34	22.17	29.59	1.01	7.85
1	75	13.71	34.913	26.20	38		468	7	2.24	22.53	30.56	0.03	7.89
1	100	13.37	34.913	26.27	39	30.90	470	8	2.25	23.26	31.02	0.03	7.88
1	125	13.13	34.906	26.31	32	25.24	479	6	2.33	23.51	31.45	0.02	7.86
1	150	12.94	34.893	26.34	32	23.25	481	6	2.32	24.24	31.25	0.01	
2	197	12.45	34.859	26.41		17.85	501	3	2.39	26.55	32.18	0.01	7.89
2	248	11.77	34.814	26.51		5.74	521	1	2.51	29.60	33.05	0.02	
2	297	11.13	34.778	26.60		3.27	531	1	2.61	33.13	33.14	0.01	7.81
2	345	10.52	34.742	26.68		0.81	541	0	2.77	37.39	31.84	0.01	
2	396	9.68	34.696	26.79		0.85	551	0	2.94	42.75	29.89	0.45	
2	445					0.47			3.05		28.18	1.29	
2	496	8.23	34.634	26.97		1.61	569	0	3.12	53.71	34.13	0.12	7.76
2	545					0.81			3.22		34.41	0.00	
2	594	7.03	34.601	27.12		3.61	584	1	3.23	63.09	39.20	0.00	
2	693	6.25	34.579	27.21		7.52	591	1	3.35	69.91	41.14	0.00	
2	794	5.51	34.572	27.30	26	14.66	583	4	3.37	79.90	43.49	0.00	
2	993	4.56	34.573	27.41	47	36.85	577	8	3.43	95.86	43.63	0.00	7.77

T G THOMPSON CRUISE 026 STATION 055 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.42	2.17
1	10		2.42	2.21
1	20			
1	30		2.42	2.41
1	40			
1	50		2.42	2.42
1	75		2.42	2.44
1	100		2.43	2.43
1	125		2.42	2.42
1	150			
2	197		2.43	2.45
2	248			
2	297		2.44	2.48
2	345			
2	396			
2	445			
2	496		2.43	2.55
2	545			
2	594			
2	693			
2	794			
2	993		2.50	2.55

T G THOMPSON CRUISE 026 STATION 056 OBSERVED VALUES

DATE 14/02/68 BARO 1011.0 WEATHER WIND VELOC 04 WAVE PERIOD 3  
 HOUR 05.8 TEMP DRY 25.4 VISIBILITY 8 WIND DIREC 11 SECCHI  
 LAT 08-30. N TEMP WET 23.0 CLOUD TYPE X WAVE DIREC 04 SOUNDING 3280  
 LONG 088-25. W REL HUMID 81 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.15	34.200	22.71	433		-18	105		4.75	4.89	0.11	8.18
1	10	24.50	34.256	22.95	434		-15	104		4.75	23.26*	0.10	
1	20	20.65	34.603	24.31	420		24	95		10.72	19.03	0.09	
1	30	17.18	34.773	25.32	225		248	48		15.35	21.95	0.07	7.93
1	40	14.71	34.931	26.11	58		441	12		19.61	27.81	0.43	
1	50	13.94	34.928	26.16	42		460	8		20.22	30.51	0.08	7.82
1	75	13.61	34.918	26.22	35		471	7		20.95	31.41	0.06	7.77
1	100	13.44	34.911	26.25	51	45.64	457	10		20.34	29.95	0.10	7.78
1	125	13.27	34.909	26.29	40	29.28	470	8		21.68	31.26	0.05	7.77
1	150	13.02	34.892	26.32	36	27.45	476	7		22.53	31.45	0.02	
2	201	12.59	34.856	26.38		13.68	504	3		24.85	32.21	0.02	7.64
2	252	12.14	34.836	26.45		20.44	502	4		26.43	32.25	0.02	
2	301	11.51	34.790	26.54		9.73	520	2		29.72	33.05	0.02	7.60
2	350	10.71	34.751	26.65		2.68	536	0		34.59	33.75	0.03	
2	401	9.87	34.708	26.77		0.68	549	0		40.19	32.70	0.03	
2	451					1.02					32.08	0.02	
2	502	8.42	34.632	26.94		1.23	567	0		53.10	31.92	0.69	7.51
2	551					3.78					37.46	0.02	
2	602	7.19	34.600	27.10		8.20	577	1		61.14	38.96	0.03	
2	703	6.30	34.575	27.20		10.41	587	2		69.55	41.54	0.02	
2	804	5.61	34.569	27.28	25	19.63	583	4		79.29	41.91	0.03	
2	1004	4.57	34.570	27.41	47	41.31	578	7		96.83	42.35	0.05	7.51

T G THOMPSON CRUISE 026 STATION 056 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.38	2.15
1	10			
1	20			
1	30		2.43	2.36
1	40			
1	50		2.43	2.46
1	75		2.43	2.46
1	100		2.43	2.45
1	125		2.43	2.45
1	150			
2	201		2.44	2.49
2	252			
2	301			2.47
2	350			
2	401			
2	451			
2	502		2.46	2.54
2	551			
2	602			
2	703			
2	804			
2	1004		2.50	2.61

T G THOMPSON CRUISE 026 STATION 057 OBSERVED VALUES

DATE	17/02/68	BARO	1009.7	WEATHER	X1	WIND VELOC	07	WAVE PERIOD	3
HOUR	11.8	TEMP DRY	23.5	VISIBILITY	8	WIND DIREC	08	SECCHI	
LAT	08-53.0N	TEMP WET	22.3	CLOUD TYPE	0	WAVE DIREC	02	SOUNDING	3292
LONG	088-50.0W	REL HUMID	90	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	22.59	34.547	23.73	461		-30	107		3.65	11.00	0.26	8.11
1	10	22.57	34.549	23.73	462		-31	108		3.17	11.63	0.26	
1	20	21.30	34.551	24.09	416		24	95		7.67	14.70	0.26	
1	30	15.68	34.853	25.73	27		459	6		18.51	29.36	0.22	7.77
1	40	14.38	34.894	26.04	73		425	15		19.00	28.07	0.64	
1	50	14.07	34.918	26.13	51		451	10		19.37	28.00	0.41	7.84
1	75	13.69	34.925	26.21	34	19.25	471	7		20.83	29.52	0.06	7.81
1	100	13.43	34.917	26.26	23	16.45	485	5		21.68	30.83	0.06	7.78
1	125	13.22	34.900	26.29	29	15.00	481	6		21.92	31.00	0.05	7.79
1	150	12.97	34.892	26.33	32	20.95	481	6		22.90	32.05	0.05	
2	200	12.47	34.853	26.40		23.67	495	5		24.85	32.38	0.06	
2	250	11.88	34.815	26.49		20.78	505	4		26.67	32.42	0.06	
2	299	11.30	34.781	26.57		14.66	517	3		29.96	33.69	0.05	7.70
2	348	10.48	34.730	26.68		7.27	535	1		34.47	33.10	0.05	
2	399	9.59	34.690	26.80		1.66	551	0		42.75	30.84	0.09	
2	449					0.81					30.00	0.89	
2	499	8.11	34.625	26.98		1.23	571	0		53.47	34.96	0.04	7.64
2	548					2.59					37.22	0.05	
2	598	6.96	34.589	27.12		2.89	585	0		63.09	39.28	0.05	
2	698	6.21	34.575	27.21		8.54	591	1		71.13	41.51	0.05	
2	793	5.52	34.564	27.29	25	18.49	584	4		79.66	43.69	0.05	
2	999	4.50	34.563	27.41	51	43.09	574	8		95.73	43.86	0.05	7.65

T G THOMPSON CRUISE 026 STATION 057 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	2.27
1	10			
1	20			
1	30		2.42	2.45
1	40			
1	50		2.42	2.46
1	75		2.42	2.51
1	100		2.43	2.48
1	125		2.42	2.48
1	150			
2	200			2.48
2	250			
2	299		2.43	2.52
2	348			
2	399			
2	449			
2	499		2.43	2.52
2	548			
2	598			2.58
2	698			
2	798			
2	999		2.48	

T G THOMPSON CRUISE 026 STATION 058 OBSERVED VALUES

DATE	17/02/68	BARO	1009.6	WEATHER	X1	WIND VELOC	10	WAVE PERIOD	3
HOUR	19.5	TEMP DRY	24.9	VISIBILITY	8	WIND DIREC	09	SECCHI	09
LAT	08-55.0N	TEMP WET	23.0	CLOUD TYPE	0	WAVE DIREC	03	SOUNDING	3329
LONG	089-26.3W	REL HUMID	85	CLOUD AMT	2	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.17	34.439	23.48	495		-68	116	0.78	0.00	7.83	0.24	8.16
1	10	22.92	34.436	23.55	496		-67	116	0.78	0.00	7.91	0.24	
1	20	19.66	34.624	24.58	268		184	59	1.61	10.23	17.76	0.27	
1	30	15.28	34.885	25.84	122		367	25	1.94	18.03	25.20	0.14	7.89
1	40	14.51	34.913	26.03	67		430	13	2.11	17.78	27.33	0.83	
1	50	14.10	34.912	26.12	61		440	12	2.15	18.76	28.86	0.18	7.87
1	75	13.69	34.918	26.21	46		460	9	2.25	20.34	29.53	0.05	7.84
1	100	13.40	34.911	26.26	62	43.69	447	12	2.23	20.46	30.43	0.03	7.81
1	125	13.18	34.905	26.30	33	35.32	478	7	2.31	21.31	31.07	0.02	7.79
1	150	12.89	34.883	26.34	30	27.54	484	6	2.35	22.78	31.66	0.02	
2	200	12.48	34.854	26.40		15.34	503	3	2.40	25.33	32.46	0.02	7.75
2	252	11.81	34.811	26.50		15.00	511	3	2.48	27.89	32.76	0.02	
2	302	11.20	34.775	26.58		11.09	522	2	2.57	30.94	33.06	0.01	7.71
2	352	10.39	34.729	26.69		5.52	537	1	2.71	35.44	32.98	0.01	
2	403	9.69	34.686	26.78		0.85	551	0	2.94	40.44	32.47	0.01	
2	452					1.15			3.09		30.90	0.88	
2	504	7.90	34.609	27.00		0.68	575	0	3.22	57.00	32.97	0.40	7.65
2	554					0.47			3.26		36.71	0.02	
2	604	6.87	34.584	27.13		2.89	587	0	3.30	58.46	38.35	0.01	
2	706	6.30	34.567	27.19		12.49	585	2	3.32	71.62	39.78	0.01	
2	806	5.72	34.566	27.27	20	12.03	587	3	3.40	79.66	42.98	0.01	
2	1011	4.63	34.565	27.39	26	41.86	597	4	3.40	93.30	43.60	0.02	7.66

T G THOMPSON CRUISE 026 STATION 058 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	2.18
1	10			
1	20			
1	30		2.42	2.37
1	40			
1	50		2.43	2.45
1	75		2.44	2.42
1	100		2.42	2.44
1	125		2.42	2.46
1	150			
2	200		2.41	2.45
2	252			
2	302		2.42	2.50
2	352			
2	403			
2	452			
2	504		2.46	2.58
2	554			
2	604			
2	706			
2	806			
2	1011		2.47	2.60

T G THOMPSON CRUISE 026 STATION 059 OBSERVED VALUES

DATE	18/02/68	BARO	1010.8	WEATHER		WIND VELOC	10	WAVE PERIOD	3
HOUR	1.5	TEMP DRY	24.8	VISIBILITY	8	WIND DIREC	08	SECCHI	
LAT	08-56.0N	TEMP WET	22.6	CLOUD TYPE	X	WAVE DIREC	04	SOUNDING	3292
LONG	090-12.0W	REL HUMID	83	CLOUD AMT	9	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.24	34.440	23.17	471		-51	112	0.76	0.00	9.61	0.18	8.15
1	10	24.22	34.445	23.18	472		-52	113	0.78	0.49	9.20	0.17	
1	20	22.51	34.440	23.67	457		-25	106	0.99	1.58	11.38	0.18	
1	30	21.38	34.540	24.06	386		53	88	1.53	7.43	15.18	0.16	8.02
1	40	18.08	34.791	25.11	225		240	48	1.65	9.50	20.22	0.08	
1	50	15.31	34.888	25.83	71		419	14	2.04	16.69	26.88	0.44	7.80
1	75	14.13	34.904	26.10	33		468	7	2.22	19.98	30.63	0.05	7.81
1	101	13.74	34.905	26.19	34	26.09	471	7	2.27	20.95	30.93	0.04	7.76
1	126	13.42	34.897	26.25	31	20.91	478	6	2.28	22.05	31.49	0.03	
1	151	13.08	34.883	26.30	31	18.02	481	6	2.34	22.65	31.96	0.02	
2	202	12.51	34.850	26.39		12.75	505	2	2.37	26.07	32.60	0.01	7.76
2	253	11.77	34.814	26.51		5.27	521	1	2.50	28.50	32.77	0.01	
2	304	11.13	34.770	26.59		2.12	532	0	2.66	31.91	32.51	0.01	7.72
2	354	10.41	34.726	26.69		3.31	539	1	2.73	35.93	32.51	0.01	
2	405	9.78	34.698	26.77		2.34	548	0	2.84	39.83	33.06	0.01	
2	456					1.32			3.08		33.13	0.02	
2	505	8.12	34.619	26.98		0.64	572	0	3.13	53.47	32.82	0.46	7.65
2	556					0.25			3.24		35.69	0.11	
2	605	6.99	34.583	27.11		1.44	587	0	3.29	63.09	39.91	0.01	
2	707	6.22	34.566	27.20		9.05	590	2	3.32	69.79	42.10	0.00	
2	807	5.56	34.570	27.29	31	20.78	578	5	3.34	76.61	42.73	0.00	
2	1009	4.69	34.566	27.39	64	51.04	558	10	3.32	91.84	43.24	0.00	7.67

T G THOMPSON CRUISE 026 STATION 059 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.40	2.21
1	10			
1	20			
1	30		2.39	2.30
1	40			
1	50		2.42	2.47
1	75		2.42	2.45
1	101		2.40	2.46
1	126			
1	151			
2	202		2.39	2.51
2	253			
2	304		2.42	2.53
2	354			
2	405			
2	456			
2	505		2.42	2.60
2	556			
2	605			
2	707			
2	807			
2	1009		2.47	2.57

## T G THOMPSON CRUISE 026

STATION 060

## OBSERVED VALUES

DATE 19/02/68  
 HOUR 1.7  
 LAT 08-52.0N  
 LONG 087-03.0W

BARO 1009.2  
 TEMP DRY 25.6  
 TEMP WET 24.9  
 REL HUMID 94

WEATHER  
 VISIBILITY 8  
 CLOUD TYPE X  
 CLOUD AMT 9

WIND VELOC 04  
 WIND DIREC 32  
 WAVE DIREC 02  
 WAVE HEIGHT 2

WAVE PERIOD 2  
 SECCHI  
 SOUNDING 3062

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	S104 UGAT/L	N03 UGAT/L	N02 UGAT/L	PH
1	0	25.04	34.391	22.89	401		13	97	0.93	7.31	8.78	0.17	8.23
1	10	19.88	34.612	24.52	299		151	66	1.23	11.21	14.55	0.12	
1	20	15.30	34.906	25.85	201		288	41	1.66	19.37	22.25	0.06	
1	30	14.55	34.922	26.03	72		424	15	2.03		27.58	0.07	7.99
1	40	14.18	34.933	26.12	58		443	12	2.15	20.10	28.82	0.13	
1	50	13.98	34.929	26.15	53		449	11	2.10	21.56	29.27	0.10	7.97
1	75	13.67	34.924	26.22	64		442	13	2.14	21.68	29.30	0.03	7.98
1	100	13.42	34.915	26.26	45	31.66	463	9	2.20	22.41	30.65	0.02	7.94
1	125	13.15	34.903	26.31	40	31.24	471	8	2.26	23.02	30.95	0.02	7.92
1	150	12.89	34.890	26.35	15	6.63	499	3	2.39	26.07	32.10	0.00	
2	202	12.43	34.853	26.41		29.75	489	6	2.36	27.04	31.36	0.03	7.91
2	252	11.76	34.807	26.50		39.74	487	8	2.36	28.87	31.86	0.03	
2	303	11.08	34.771	26.60		14.11	521	3	2.56	31.79	33.51	0.02	7.84
2	353	10.49	34.761	26.70		8.71	533	2	2.59	33.13	32.00	0.02	
2	404	9.59	34.689	26.80		2.55	550	0	2.95	43.00	31.25	0.01	
2	454					1.91					30.59	0.17	
2	504	8.06	34.622	26.99		1.44	572	0	3.25	56.88	32.28	0.76	7.76
2	554					1.40					35.13	0.04	
2	604	6.89	34.592	27.13		3.82	586	1	3.27	64.55	34.49	0.01	
2	704	6.12	34.576	27.22		8.46	592	1	3.35	72.71	41.34	0.01	
2	803	5.42	34.573	27.31	30	20.61	596	5	3.40	81.97	42.78	0.00	
2	1004	4.45	34.574	27.42	65	61.75	546	11	3.42	95.98	42.60	0.01	7.78
2	1203	3.77	34.588	27.50	86		551	13	3.32	108.16	42.65	0.00	

T G THOMPSON CRUISE 026 STATION 060 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.41	2.23
1	10			
1	20			
1	30		2.44	2.47
1	40			
1	50		2.42	2.48
1	75		2.44	2.49
1	100		2.43	2.50
1	125		2.41	2.51
1	150			
2	202		2.44	2.51
2	252			
2	303		2.44	2.54
2	353			
2	404			
2	454			
2	504		2.46	2.59
2	554			
2	604			
2	704			
2	803			
2	1004		2.51	2.66
2	1203			

T G THOMPSON CRUISE 026 STATION 061 OBSERVED VALUES

DATE 19/02/68  
 HOUR 10.8  
 LAT 08-44.0N  
 LONG 087-52.0W

BARO 1009.1  
 TEMP DRY 24.2  
 TEMP WET 23.0  
 REL HUMID 90

WEATHER  
 VISIBILITY 8  
 CLOUD TYPE X  
 CLOUD AMT 9

WIND VELOC 10  
 WIND DIREC 36  
 WAVE DIREC 02  
 WAVE HEIGHT 2

WAVE PERIOD 3  
 SECCHI  
 SOUNDING 3200

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	21.19	34.648	24.19	443	28.90	-2	101	1.12	13.52	13.38	0.11	8.16
1	10	16.43	34.832	25.54	104		375	22	1.96	17.42	23.41	0.38	
1	20	14.68	34.872	25.96	25		470	5	2.41	21.92	29.07	0.14	
1	30	14.19	34.918	26.10	71		429	14	2.22	20.95	29.75	0.08	7.89
1	40	13.95	34.932	26.16	44		459	9	2.22	20.71	29.82	0.06	
1	50	13.76	34.922	26.20	52		453	10	2.17	21.19	29.19	0.06	7.90
1	75	13.46	34.915	26.25	34		474	7	2.26	22.65	30.10	0.03	7.87
1	100	13.29	34.912	26.28	43		467	8	2.26	22.78	30.22	0.03	7.88
1	125	13.08	34.899	26.32	38	27.62	473	7	2.29	23.87	29.69	0.06	7.87
1	150	12.88	34.888	26.35	40	28.86	474	8	2.33	23.63	30.22	0.03	
2	201	12.44	34.859	26.41		15.34	504	3	2.45	26.43	31.23	0.03	7.84
2	251	11.80	34.817	26.50		19.21	507	4	2.43	28.38	31.62	0.02	
2	301	11.20	34.778	26.59		13.73	519	3	2.54	32.03	32.46	0.02	7.81
2	352	10.40	34.736	26.70		9.18	534	2	2.71	35.32	30.25	0.00	
2	402	9.65	34.698	26.79		1.06	551	0	2.90	41.78	28.56	0.01	
2	452					0.25					31.32	0.15	
2	502	7.89	34.633	27.02		4.84	570	1	3.17	56.39	36.34	0.01	7.73
2	553					1.15					35.90	0.03	
2	603	6.88	34.608	27.15		9.82	580	2	3.24	64.43	39.20	0.00	
2	704	6.22	34.585	27.22		22.35	577	4	3.24	71.01	40.76	0.00	
2	804	5.59	34.573	27.29	33	21.63	576	5	3.34	80.14	42.65	0.00	
2	1003	4.49	34.579	27.42	58	44.54	568	9	3.42	100.61	42.85	0.01	7.72
2	1204	3.80	34.593	27.51	91		545	14	3.32	110.59	42.27	0.00	

T G THOMPSON CRUISE 026 STATION 061 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	1.66	2.44	2.14
1	10	0.48		
1	20	0.37		
1	30	0.85	2.44	2.27
1	40	0.58		
1	50		2.43	2.29
1	75	0.13	2.44	2.29
1	100	0.02	2.43	2.29
1	125	0.18	2.44	2.30
1	150	0.02		
2	201	0.79	2.44	2.29
2	251	0.41		
2	301	0.20	2.44	2.31
2	352	0.43		
2	402	0.45		
2	452	0.09		
2	502	0.90	2.46	2.37
2	553	0.35		
2	603	0.41		
2	704			
2	804			
2	1003		2.48	2.40
2	1204	0.46		

T G THOMPSON CRUISE 026 STATION 062 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.42	2.11
1	10			
1	20			
1	30		2.44	2.27
1	40			
1	50		2.43	2.29
1	76		2.43	2.27
1	101		2.43	2.30
1	126		2.44	2.31
1	151			
2	200		2.43	2.31
2	251			
2	300		2.43	2.33
2	351			
2	401			
2	451			
2	501		2.45	2.37
2	550			
2	599			
2	705			
2	805			
2	1005		2.49	2.42
2	1204			

T G THOMPSON CRUISE 026 STATION 063 OBSERVED VALUES

DATE	19/02/68	BARO	1009.2	WEATHER	X2	WIND VELOC	04	WAVE PERIOD	2
HOUR	21.1	TEMP DRY	25.8	VISIBILITY	8	WIND DIREC	02	SECCHI	15
LAT	09-00.0N	TEMP WET	23.9	CLOUD TYPE	6	WAVE DIREC	01	SOUNDING	3338
LONG	088-24.2W	REL HUMID	85	CLOUD AMT	8	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.41	34.626	23.55	493		-68	116	1.17	11.33	13.36	0.21	8.14
1	10	22.19	34.612	23.89	440		-6	102	1.21	9.99	12.78	0.13	
1	20	19.27	34.594	24.66	324		131	71	1.94	13.89	20.43	0.84	
1	30	15.76	34.847	25.70	100		385	21	2.29	19.73	29.08	0.21	7.86
1	40	14.60	34.875	25.98	46		450	9	2.38	21.80	28.40	1.36	
1	50	14.05	34.878	26.10	25		477	5	2.38	22.41	30.29	0.26	7.85
1	76	13.57	34.908	26.22	27		480	5	2.20	21.31	28.70	0.04	7.91
1	101	13.37	34.911	26.27	53	29.07	455	10	2.29	22.17	30.18	0.03	7.88
1	126	13.08	34.898	26.32	39	28.47	473	8	2.31	23.63	31.50	0.02	7.88
1	150	12.90	34.889	26.35	45	22.95	468	9	2.47	23.63	31.29	0.02	
2	200	12.57	34.864	26.39		16.83	501	3	2.39	25.46	31.49	0.03	7.84
2	250	12.11	34.833	26.46		9.26	513	2	2.48	27.77	32.67	0.02	
2	300	12.54	34.797	26.35		8.16	510	2	2.55	30.21	32.55	0.02	7.80
2	351	10.79	34.760	26.65		6.25	532	1	2.68	33.25	33.19	0.01	
2	401	10.00	34.714	26.75		2.59	545	0	2.85	39.34	30.65	0.02	
2	451					2.25					28.71	1.01	
2	500	8.14	34.628	26.98		0.89	571	0	3.19	55.18	32.16	0.62	7.72
2	550					3.74					35.69	0.03	
2	600	7.02	34.593	27.12		2.72	585	0	3.25	62.24	42.09	0.01	
2	700	6.12	34.573	27.22		9.22	591	2	3.35	71.13	41.71	0.02	
2	800	5.54	34.569	27.29	28	14.66	581	5	3.39	78.80	43.31	0.01	
2	999	4.49	34.567	27.41	76	39.10	550	12	3.44	93.54	43.06	0.01	7.74
2	1200	3.75	34.590	27.51	84		553	13	3.30	106.94	42.73	0.00	

T G THOMPSON CRUISE 026 STATION 062 OBSERVED VALUES

DATE 19/02/68 BARO 1011.6 WEATHER X1 WIND VELOC 11 WAVE PERIOD 2  
 HOUR 16.6 TEMP DRY 25.9 VISIBILITY 7 WIND DIREC 03 SECCHI 16  
 LAT 08-34.0N TEMP WET 23.9 CLOUD TYPE 6 WAVE DIREC 02 SOUNDING 3200  
 LONG 088-26.0W REL HUMID 85 CLOUD AMT 6 WAVE HEIGHT 2

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.30	34.560	23.53	472		-46	111	0.96	2.68	10.34	0.25	8.20
1	10	21.45	34.510	24.02	462		-23	105	1.10	3.04	11.43	0.25	
1	20	20.33	34.589	24.38	183		264	41	1.56	9.50	17.06	0.34	
1	30	14.84	34.922	25.97	21		473	4	1.98	19.49	25.84	0.26	7.96
1	40	14.21	34.930	26.11	10		491	2	2.19	20.95	30.15	0.32	
1	50	13.86	34.942	26.19	14		490	3	2.21	21.07	30.92	0.05	7.88
1	76	13.57	34.922	26.24	66		441	13	2.24	22.17	30.57	0.02	7.89
1	101	13.39	34.928	26.28	36	43.09*	472	7	2.20	22.29	30.28	0.02	7.92
1	126	13.17	34.907	26.30	34	26.52	477	7	2.28	23.02	30.87	0.01	7.88
1	151	12.98	34.889	26.33	31	30.39	482	6	2.23	22.78	30.97	0.04	
2	200	12.58	34.881	26.40		29.66	488	6	2.32	24.60	31.68	0.05	7.88
2	251	11.97	34.828	26.48		21.89	502	4	2.38	26.92	32.67	0.02	
2	300	11.27	34.783	26.58		9.73	523	2	2.55	30.33	33.52	0.01	7.79
2	351	10.64	34.747	26.66		12.66*	527	2	2.60	32.76	33.94	0.01	
2	401	9.94	34.712	26.76		1.19	547	0	2.84	38.85	32.26	0.01	
2	451					0.34					32.26	0.14	
2	501	8.21	34.650	26.99		0.98	570	0	3.11	53.23	35.08	0.01	7.74
2	550					1.32					37.50	0.02	
2	599	7.06	34.598	27.11		2.29	585	0	3.23	60.90	39.20	0.00	
2	705	6.18	34.579	27.22		9.39	590	2	3.30	69.06	41.93	0.01	
2	805	5.48	34.571	27.30	16	19.76	594	3	3.32	77.71	42.77	0.01	
2	1005	4.46	34.581	27.43	50	48.83	576	8	3.37	92.20	43.40	0.01	7.74
2	1204	3.76	34.594	27.51	92		545	14	3.26	104.14	42.98	0.01	

T G THOMPSON CRUISE 026

STATION 063

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MFG/L	CO2 MMOL/L
1	0	0.96	2.41	2.10
1	10	1.59		
1	20	1.79		
1	30	0.84	2.41	2.27
1	40	0.54		
1	50	0.27	2.41	2.30
1	76	0.38	2.42	2.30
1	101	0.41	2.41	2.30
1	126	0.04	2.40	2.28
1	150	0.60		
2	200	0.78	2.42	2.27
2	250	0.81		
2	300	0.62	2.42	2.31
2	351	0.37		
2	401	1.87		
2	451	0.01		
2	500	0.05	2.44	2.37
2	550	0.08		
2	600	0.73		
2	700			
2	800			
2	999		2.47	2.42
2	1200			

T G THOMPSON CRUISE 026 STATION 064 OBSERVED VALUES

DATE	20/02/68	BARO	1012.2	WEATHER		WIND VELOC	03	WAVE PERIOD	2
HOUR	09-30.3.8	TEMP DRY	26.2	VISIBILITY	8	WIND DIREC	31	SECCHI	
LAT	09-30. N	TEMP WET	24.4	CLOUD TYPE	X	WAVE DIREC	02	SOUNDING	3200
LONG	098-25. W	REL HUMID	86	CLOUD AMT	9	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.99	33.853	22.50	568		-152	137	0.20	0.37	0.11	0.10	8.38
1	10	24.57	33.885	22.65	497		-78	119	0.32	0.00	0.00	0.19	
1	20	24.35	34.024	22.82	400		19	95	0.74	2.19	0.00	0.68	
1	29	22.04	34.480	23.83	310		124	71	1.47	8.53	3.69	1.75	8.08
1	39	18.52	34.631	24.88	194		267	42	1.82	13.15	13.66	1.23	
1	49	17.03	34.859	25.42	117		356	25	1.97	17.05	19.40	0.90	7.94
1	74	13.77	34.892	26.17	15		490	3	2.38	23.02	22.54	0.07	7.86
1	99	13.39	34.884	26.24	13	4.67	495	3	2.38	24.12	27.83	0.03	7.89
1	123	13.09	34.880	26.30	16	5.10	496	3	2.38	24.12	30.31	0.03	7.91
1	148	12.85	34.871	26.34	36	26.99	478	7	2.28	23.63	28.79	0.04	
2	198	12.39	34.846	26.41		4.93	515	1	2.42	26.92	32.46	0.02	7.84
2	549	11.73	34.804	26.51		5.57	521	1	2.50	29.84	32.80	0.02	
2	298	10.99	34.760	26.61		1.87	534	0	2.62	33.13	32.42	0.02	7.77
2	347	10.18	34.712	26.72		1.06	545	0	2.82	39.46	28.76	0.79	
2	397	9.30	34.667	26.83		1.27	555	0	2.95*	46.04	27.43	1.45	
2	448					0.30					29.64	0.83	
2	498	7.85	34.616	27.02		0.89	575	0	3.74*	58.34	37.16	0.58	7.71
2	548					0.34					41.23	0.03	
2	598	6.99	34.593	27.12		1.27	587	0	3.27	64.55	42.72	0.01	
2	699	6.23	34.575	27.21		6.03	593	1	3.33	71.86	45.58	0.01	
2	799	5.50	34.567	27.29	28	10.24	581	5	3.39	81.61	46.97	0.01	
2	996	4.46	34.576	27.42	57	50.36	569	9	3.35	99.02	46.93	0.01	7.73
2	1198	3.74	34.594	27.51	89		548	14	3.30	111.33	45.84	0.00	

T G THOMPSON CRUISE 026

STATION 064

OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK M=G/L	CO2 MMOL/L
1	0		2.39	1.99
1	10			
1	20			
1	29		2.41	2.17
1	39			
1	49		2.43	2.23
1	74		2.44	2.30
1	99		2.44	2.31
1	173		2.44	2.34
1	148			
2	198		2.44	2.35
2	549			
2	298		2.44	2.34
2	347			
2	397			
2	448			
2	498		2.45	2.44
2	548			
2	598			
2	699			
2	799			
2	996		2.51	2.41
2	119P			

T G THOMPSON CRUISE 026

STATION 065

OBSERVED VALUES

DATE 20/62/68  
 HOUR 10.5  
 LAT 08-54.0N  
 LONG 088-56.0W

BARO 1010.1  
 TEMP DRY 24.3  
 TEMP WET 23.5  
 REL HUMID 93

WEATHER  
 VISIBILITY  
 CLOUD TYPE  
 CLOUD AMT

WIND VELOC 03  
 WIND DIREC 33  
 WAVE DIREC 33  
 WAVE HEIGHT 1

WAVE PERIOD 2  
 SECCHI  
 SOUNDING 3338

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	23.56	34.544	23.45	511		-87	121	0.76	0.37	8.19	0.30	8.19
1	10	22.95	34.554	23.63	508		-79	119	0.91	0.61	10.78	0.23	
1	20	19.71	34.619	24.57	273		179	60	1.55	12.42	17.74	0.54	
1	30	15.60	34.901	25.78	90		396	19	1.94	18.27	25.27	0.28	7.90
1	40	14.60	34.918	26.01	99		398	20	1.92	19.12	26.21	0.39	
1	50	14.17	34.918	26.11	57		443	11	2.08	20.58	28.51	0.19	7.88
1	75	13.70	34.922	26.21	55		450	11	2.15		29.66	0.09	
1	101	13.40	34.916	26.27	54	43.14	455	11	2.14	22.29	29.90	0.06	7.87
1	126	13.15	34.902	26.30	51	38.38	460	10	2.21	25.58	30.53	0.06	7.83
1	151	12.99	34.894	26.33	38	25.92	475	7	2.25	24.24	30.76	0.08	
2	199	12.59	34.869	26.39		22.44	495	4	2.31	25.58	30.48	0.07	7.75
2	249	11.93	34.826	26.49		21.25	503	4	2.40	28.50	31.68	0.05	
2	299	11.25	34.783	26.58		14.24	518	3	2.45	31.06	33.30	0.02	7.74
2	347	10.40	34.734	26.70		4.25	539	1	2.71	37.03	32.88	0.02	
2	399	9.72	34.696	26.77		1.23	550	0	3.06	42.39	30.10	0.03	
2	448					0.89					29.08	1.10	
2	498	8.06	34.628	26.99		1.83	571	0	3.27	56.64	34.03	0.05	7.72
2	547					2.12					36.03	0.02	
2	597	6.99	34.590	27.12		2.85	585	0	3.22	65.41	37.79	0.03	
2	697	6.17	34.572	27.21		8.24	592	1	3.31	72.59	41.73	0.00	
2	797	5.48	34.565	27.29	16	9.82	594	3	3.36	82.70	43.40	0.01	
2	997	4.46	34.569	27.42	57	45.56	568	9	3.35	98.17	43.31	0.01	7.67
2	1200	3.75	34.590	27.51	94		543	15	3.26	111.57	42.23	0.04	

T G THOMPSON CRUISE 026 STATION 065 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0	0.83	2.44	2.08
1	10	1.49		
1	20	1.60		
1	30	1.22	2.44	2.25
1	40	1.06		
1	50	0.57	2.45	2.26
1	75	0.26	2.45	2.29
1	101	0.28	2.45	2.31
1	126	0.13	2.45	2.32
1	151	0.60		
2	199	0.51	2.45	2.32
2	249	0.21		
2	299	0.21	2.45	2.33
2	347	0.51		
2	399	0.10		
2	448	0.06		
2	498	0.30	2.48	2.39
2	547	0.02		
2	597	0.45		
2	697			
2	797			
2	997		2.51	2.43
2	1200			

T G THOMPSON CRUISE 026 STATION 066 OBSERVED VALUES

DATE	20/02/68	BARO	1012.4	WEATHER	X1	WIND VELOC	03	WAVE PERIOD	2
HOUR	18.0	TEMP DRY	28.6	VISIBILITY	8	WIND DIREC	31	SECCHI	13
LAT	08-53. N	TEMP WET	25.2	CLOUD TYPE	0	WAVE DIREC	01	SOUNDING	3338
LONG	089-27. W	REL HUMID	76	CLOUD AMT	2	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	24.29	34.328	23.07	542		-122	129	0.39	0.61	0.62	0.18	8.31
1	10	23.55	34.323	23.28	540		-115	127	0.49	1.22	0.99	0.15	
1	20	17.70	34.733	25.16	69		399	15	2.03	16.56	24.29	0.72	
1	30	15.02	34.904	25.91	148		344	30	1.92	18.27	25.28	0.23	7.89
1	40	14.54	34.912	26.02	83		414	17	1.97	19.00	26.39	0.64	
1	50	14.06	34.909	26.12	63		438	13	2.11	20.71	29.07	0.14	7.89
1	76	13.69	34.921	26.21	41		465	8	2.18	21.31	29.92	0.04	7.86
1	101	13.40	34.913	26.26	34	18.87	474	7	2.26	22.41	30.69	0.03	
1	126	13.15	34.902	26.31	56	43.52	455	11	2.18	22.53	30.11	0.02	7.87
1	150	12.93	34.889	26.34	53	41.86	461	10	2.21	23.02	30.32	0.02	
2	197	12.48	34.861	26.41		15.85	503	3	2.33	26.19	31.80	0.05	7.82
2	548	11.77	34.810	26.51		19.89	507	4	2.38	28.01	32.43	0.05	
2	297	11.09	34.772	26.60		9.90	525	2	2.50	31.55	33.28	0.04	7.79
2	346	10.59	34.744	26.67		5.31	535	1	2.64	34.96	33.38	0.03	
2	395	9.78	34.698	26.77		1.15	549	0	2.82	41.17	31.25	0.06	
2	445					1.27					29.74	1.15	
2	494	8.20	34.627	26.97		0.38	571	0	3.14	62.61	31.31	0.93	7.71
2	544					1.70					35.28	0.14	
2	593	7.01	34.594	27.12		1.15	586	0	3.18	61.87	39.33	0.04	
2	692	6.22	34.571	27.21		6.54	593	1	3.28	69.91	41.28	0.03	
2	792	5.59	34.565	27.28	22	15.51	586	4	3.36	77.83	43.38	0.03	
2	994	4.53	34.569	27.41	53	42.54	572	8	3.34	93.54	43.59	0.03	7.71
2	1194	3.91	34.584	27.49	94		541	15	3.33	104.63	42.59	0.02	

T G THOMPSON CRUISE 026 STATION 066 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.43	2.00
1	10			
1	20			
1	30		2.45	2.26
1	40			
1	50		2.44	2.28
1	76		2.44	2.26
1	101		2.44	2.30
1	126		2.45	2.29
1	150			
2	197		2.45	2.30
2	548			
2	297		2.46	2.33
2	346			
2	395			
2	445			
2	494		2.47	2.38
2	544			
2	593			
2	692			
2	792			
2	994		2.51	2.43
2	1194			

T G THOMPSON CRUISE 026 STATION 067 OBSERVED VALUES

DATE 21/02/68 BARO 1010.0 WEATHER WIND VELOC 03 WAVE PERIOD X  
 HOUR 08-52.0.7 TEMP DRY 26.0 VISIBILITY 8 WIND DIREC 32 SECCHI  
 LAT 08-52.0N TEMP WET 24.1 CLOUD TYPE X WAVE DIREC 00 SOUNDING 3347  
 LONG 090-13.0W REL HUMID 85 CLOUD AMT 9 WAVE HEIGHT 0

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.10	34.358	22.85	596		-182	144	0.20	0.97	0.84	0.09	8.32
1	10	23.42	34.321	23.32	534		-108	126	0.54	1.22	3.26	0.10	
1	20	21.73	34.415	23.87	383		54	88	1.26	10.96	12.58	0.15	
1	30	19.60	34.593	24.58	219		233	48	1.78	12.55	19.78	0.65	7.97
1	40	15.61	34.895	25.77	116		371	24	2.00	17.42	25.01	0.12	
1	50	14.59	34.911	26.01	42		455	8	2.18	22.53	29.04	0.84	7.83
1	74	13.92	34.913	26.15	40		463	8	2.23	22.17	30.54	0.05	7.80
1	99	13.60	34.914	26.22	36	26.99	471	7	2.27	22.29	30.83	0.01	7.88
1	124	13.28	34.893	26.27	38	21.55	472	7	2.32	23.26	31.72	0.01	7.76
1	149	12.95	34.885	26.33	32	20.70	482	6	2.36	24.12	32.17	0.02	
2	198	12.47	34.841	26.39		15.26	503	3	2.38	25.58	31.66	0.07	7.85
2	247	11.82	34.814	26.50		5.99	520	1	2.59	29.11	33.34	0.02	
2	299	11.06	34.765	26.60		5.23	530	1	2.60	32.52	33.65	0.01	7.78
2	345	10.36	34.730	26.70		4.63	539	1	2.71	35.93	33.52	0.01	
2	396	9.84	34.705	26.77		2.68	547	0	2.87	39.95	33.44	0.01	
2	445					0.47					29.52	1.21	
2	495	8.20	34.626	26.97		0.98	570	0	3.19	53.71	33.24	0.51	7.72
2	545					0.68					35.35	0.29	
2	595	7.03	34.590	27.11		1.10	586	0	3.33	61.75	40.32	0.02	
2	695	6.38	34.573	27.19		5.82	591	1	3.33	67.84	42.27	0.00	
2	795	5.69	34.573	27.28	35	10.92	572	6	3.39	76.00	44.84	0.00	
2	997	4.67	34.570	27.39	60	40.80	562	10	3.48	89.52	44.16	0.00	7.74
2	1199	3.96	34.583	27.48	96		538	15	3.44	102.92	44.42	0.00	

T G THOMPSON CRUISE 026 STATION 067 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.44	1.98
1	10			
1	20			
1	30		2.43	2.21
1	40			
1	50		2.44	2.28
1	74		2.44	2.31
1	99		2.45	2.29
1	124			2.31
1	149			
2	198		2.45	2.32
2	247			
2	299		2.46	2.34
2	345			
2	396			
2	445			
2	495		2.48	2.39
2	545			
2	595			
2	695			
2	795			
2	997		2.50	2.43
2	1199			

T G THOMPSON CRUISE 026 STATION 069 OBSERVED VALUES

DATE 22/02/69 BARO 1008.8 WEATHER WIND VELOC 13 WAVE PERIOD 2  
 HOUR 0.0 TEMP DRY 26.4 VISIBILITY 8 WIND DIREC 34 SECCHI  
 LAT 09-50.0N TEMP WET 23.5 CLOUD TYPE X WAVE DIREC 34 SOUNDING 3292  
 LONG 088-27.0W REL HUMID 78 CLOUD AMT 9 WAVE HEIGHT 1

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.93	33.876	22.23	465		-55	114	0.27	1.34	0.20	0.05	8.33
1	10	25.80	33.868	22.26	468		-57	114	0.27	1.58	0.19	0.02	
1	20	25.30	33.846	22.40	437		-22	106	0.40	1.71	0.46	0.21	
1	30	24.23	34.286	23.06	363		56	87	1.05	4.38	9.43	1.38	8.17
1	40	18.11	34.704	25.04	103		361	22	2.06	16.08	22.97	0.78	
1	50	16.72	34.700	25.37	113		364	24	2.07	17.17	22.02	0.76	7.95
1	75	13.53	34.880	26.21	13		494	3	2.38	23.26	30.87	0.06	7.87
1	100	13.21	34.980	26.28	11	5.31	499	2	2.39	24.73	30.95	0.02	7.88
1	125	12.96	34.874	26.32	19	6.84	495	4	2.39	24.97	31.88	0.01	7.86
1	150	12.69	34.865	26.37	25	10.96	492	5	2.40	25.70	31.86	0.03	
2	197	12.21	34.826	26.43		17.17	504	3	2.40	27.53	31.57	0.07	7.86
2	248	11.69	34.795	26.51		3.44	524	1	2.54	30.33	31.58	0.02	
2	298	11.05	34.760	26.60		1.23	534	0	2.65	33.37	31.57	0.03	
2	347	10.37	34.725	26.69		0.76	542	0	2.79	38.85	29.56	0.15	
2	398	9.49	34.677	26.81		1.19	553	0	3.08	45.92	27.19	1.06	
2	447					1.83					26.80	1.49	
2	497	7.99	34.611	26.99		1.27	573	0	3.20	58.95	29.91	1.24	7.74
2	547					0.34					33.75	0.29	
2	596	6.91	34.590	27.13		1.78	587	0	3.30	66.50	37.14	0.01	
2	696	6.16	34.573	27.22		8.07	592	1	3.34	73.69	40.19	0.02	
2	797	5.57	34.567	27.29	25	13.73	584	4	3.45	80.63	41.24	0.02	
2	996	4.66	34.564	27.39	48	24.86	574	8	3.48	95.86	43.07	0.00	7.74
2	1197	3.83	34.589	27.50	70		565	11	3.39	111.57	42.99	0.00	

T G THOMPSON CRUISE 026 STATION 069 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
1	0		2.39	1.98
1	10			
1	20			
1	30		2.43	2.07
1	40			
1	50		2.45	2.23
1	75		2.44	2.27
1	100		2.46	2.28
1	125		2.44	2.27
1	150			
2	197		2.46	2.30
2	248			
2	298			2.31
2	347			
2	398			
2	447			
2	497		2.48	2.36
2	547			
2	596			
2	696			
2	797			
2	996		2.52	2.40
2	1197			

T G THOMPSON CRUISE 026 STATION 070 OBSERVED VALUES

DATE 22/02/68	BARO 1011.4	WEATHER X1	WIND VELOC 03	WAVE PERIOD 3
HOUR 16.8	TEMP DRY 27.3	VISIBILITY 8	WIND DIREC 03	SECCHI 09
LAT 10-59.0N	TEMP WET 24.0	CLOUD TYPE 1	WAVE DIREC 03	SOUNDING 4590
LONG 087-24.0W	REL HUMID 76	CLOUD AMT 2	WAVE HEIGHT 1	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	S104 UGAT/L	N03 UGAT/L	N02 UGAT/L	PH
1	0	26.08	33.829	22.15	537		-127	131	0.09	0.49	2.95	0.03	
1	50	14.79	34.899	25.96	50		444	10	2.13	20.34	27.26	0.05	
1	100	13.49	34.904	26.24	25		483	5	2.25	22.90	30.53	0.02	
1	200	12.51	34.857	26.40	16		502	3	2.41	26.31	30.87	0.01	
1	372	9.61	34.694	26.80	43	0.81	509	8	2.93	43.97	26.81	0.81	
1	424	8.80	34.652	26.90		0.85	562	0	3.04	50.18	27.69	1.32	
1	472	8.01	34.630	27.00		1.61	572	0	3.18	55.54	31.03	0.87	
1	523	7.43	34.609	27.07		1.57	580	0	3.19	60.53	34.51	0.03	
1	574	6.94	34.590	27.13		2.55	586	0	3.30	65.16	35.97	0.00	
1	623	6.57	34.586	27.17		5.40	589	1	3.33	67.84	40.16	0.01	
1	1025	4.34	34.578	27.44					3.44	97.93	44.37	0.00	

T G THOMPSON CRUISE 026 STATION 071 OBSERVED VALUES

DATE	22/02/68	BARO	1007.8	WEATHER	X0	WIND VELOC	03	WAVE PERIOD	3
HOUR	22.1	TEMP DRY	26.8	VISIBILITY	8	WIND DIREC	32	SECCHI	06
LAT	11-15.0N	TEMP WET	23.1	CLOUD TYPE		WAVE DIREC	32	SOUNDING	1033
LONG	087-08.0W	REL HUMID	73	CLOUD AMT	0	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	P04 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.84	34.034	22.06	545		-141	135	0.13		2.39	0.01	
1	25	20.90	34.509	24.17	199		244	45	1.66		17.66	1.86	
1	49	15.18	34.874	25.85	43		448	9	2.22		31.83	0.11	
1	99	13.35	34.888	26.25	24		485	5	2.31		32.18	0.01	
1	198	12.26	34.841	26.43	18		503	3	2.39		32.55	0.02	
1	299	11.21	34.772	26.58		2.55	531	0	2.60		32.78	0.00	
1	348	10.42	34.731	26.69		0.47	542	0	2.74		30.41	0.05	
1	398	9.56	34.687	26.80		0.76	553	0	2.89		29.00	0.80	
1	448	8.78	34.647	26.90		0.64	563	0	3.02		28.23	1.28	
1	497	8.15	34.638	26.99		6.46*	565	1	3.06		33.73	0.05	
1	551	7.51	34.605	27.06		2.97	578	1	3.17		35.93	0.00	

T G THOMPSON CRUISE 026 STATION 072 OBSERVED VALUES

DATE	23/02/68	BARO	1008.5	WEATHER	X1	WIND VELOC	12	WAVE PERIOD	3
HOUR	0.2	TEMP DRY	26.8	VISIBILITY	8	WIND DIREC	30	SECCHI	
LAT	11-20.0N	TEMP WET	23.0	CLOUD TYPE	1	WAVE DIREC	30	SOUNDING	305
LONG	087-05.0W	REL HUMID	72	CLOUD AMT	1	WAVE HEIGHT	2		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.77	33.982	22.05	518		-114	128	0.14		0.80	0.00	
1	25	21.71	34.313	23.80	254		183	58	1.35		10.94	0.60	
1	50	14.67	34.863	25.96	8		488	2	2.39		28.95	0.04	
1	74	13.80	34.881	26.16	4		500	1	2.47		26.92	0.23	
1	99	13.20	34.876	26.28	10		501	2	2.50		26.08	0.52	
1	150	12.74	34.862	26.36		4.08	512	1	2.46		30.35	0.03	
1	200	12.39	34.842	26.41		2.42	517	0	2.52		30.46	0.00	
1	224	12.12	34.827	26.45		4.50	518	1	2.51		31.64	0.00	
1	250	11.97	34.815	26.47		2.93	521	1	2.58		31.48	0.04	
1	274	11.66	34.800	26.52		2.42	525	0	2.58		31.69	0.04	
1	305	11.20	34.776	26.58		2.51	531	0	2.63		30.76	0.08	

T G THOMPSON CRUISE 026 STATION 073 OBSERVED VALUES

DATE	23/02/68	BARO	1013.2	WEATHER	X1	WIND VELOC	15	WAVE PERIOD	2
HOUR	16.3	TEMP DRY	28.0	VISIBILITY		WIND DIREC	35	SECCHI	13
LAT	12-23.0N	TEMP WET	22.5	CLOUD TYPE	8	WAVE DIREC	35	SOUNDING	585
LONG	088-48.0W	REL HUMID	62	CLOUD AMT	1	WAVE HEIGHT	3		

CAST	DEPTH	TEMP DEG.C	SAL O/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SIO4 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	25.98	34.257	22.50	475		-66	117	0.28		2.42	0.06	
1	25	22.04	34.319	23.71	243		192	56	1.24		13.93	0.78	
1	49	18.76	34.683	24.86	170		289	37	1.88		21.99	0.58	
1	99	13.22	34.862	26.26	19		492	4	2.41		32.81	0.01	
1	149	12.50	34.852	26.40	17	7.61	501	3	2.41		31.64	0.00	
1	199	11.77	34.804	26.50	15	2.00	511	3	2.54		32.06	0.17	
1	249	11.71	34.796	26.50		3.06	524	1	2.56		32.30	0.10	
1	299	11.67	34.791	26.51		2.63	525	0	2.57		32.41	0.07	
1	349	10.27	34.728	26.71		0.47	544	0	2.81		30.10	0.20	
1	399	9.21	34.664	26.84		1.40	556	0	2.96		27.41	1.22	
1	449	8.78	34.650	26.90		1.87	562	0	3.06		28.31	1.24	
1	500	8.15	34.623	26.98		2.46	569	0	3.13		30.50	0.94	

T G THOMPSON CRUISE 026 STATION 074 OBSERVED VALUES

DATE	24/02/68	BARO	1012.9	WEATHER	X0	WIND VELOC	04	WAVE PERIOD	2
HOUR	13.7	TEMP DRY	26.3	VISIBILITY	8	WIND DIREC	28	SECCHI	25
LAT	13-01.0N	TEMP WET	19.8	CLOUD TYPE	X	WAVE DIREC	28	SOUNDING	5522
LONG	091-47.0W	REL HUMID	54	CLOUD AMT	0	WAVE HEIGHT	1		

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.56	34.344	22.38	451		-47	112	0.51		3.56	0.10	
1	25	24.61	34.468	23.08	499		-82	120	0.80		8.26	0.15	
1	50	15.92	34.789	25.62	19		465	4	2.38		29.45	0.30	
1	100	13.53	34.884	26.21	14	2.21	493	3	2.41		31.24	0.02	
1	201	12.38	34.853	26.42		13.60	506	3	2.43		31.98	0.00	
1	302	11.20	34.767	26.58		5.95	527	1	2.59		32.48	0.00	
1	353	10.35	34.720	26.69		0.55	543	0	2.81		28.49	0.47	
1	403	9.50	34.671	26.80		0.59	554	0	2.97		27.05	1.28	
1	453	8.61	34.636	26.91		0.59	565	0	3.10		27.16	1.30	
1	505	7.99	34.605	26.99		1.15	573	0	3.17		29.32	1.16	
1	555	7.35	34.587	27.07		0.72	582	0	3.26		32.06	1.06	
1	605	6.88	34.580	27.13		1.57	588	0	3.34		35.76	0.30	

T G THOMPSON CRUISE 026 STATION 075 OBSERVED VALUES

DATE 27/02/68	BARO 1016.0	WEATHER	WIND VELOC 03	WAVE PERIOD 2
HOUR 16-18.0N	TEMP DRY 27.3	VISIBILITY 8	WIND DIREC 36	SECCHI
LAT 16-18.0N	TEMP WET 22.9	CLOUD TYPE X	WAVE DIREC 00	SOUNDING 4755
LONG 100-25.0W	REL HUMID 69	CLOUD AMT 9	WAVE HEIGHT 0	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	0	26.99	34.291	22.21	437		-35	109	0.23		0.03	0.05	
1	50	19.10	34.468	24.61	163		294	36	1.81		20.80	0.21	
1	100	13.39	34.843	26.21	5		504	1	2.52		28.89	0.06	
1	201	11.94	34.799	26.46	8	2.34	517	2	2.55		31.18	0.00	
1	251	11.24	34.765	26.57		1.66	531	0	2.71		29.66	0.05	
1	302	10.80	34.741	26.63		1.53	537	0	2.77		28.18	0.95	
1	352	9.91	34.691	26.75		1.32	548	0	2.96		25.99	1.25	
1	403	9.18	34.652	26.84		1.27	557	0	3.06		26.83	1.17	
1	453	8.44	34.616	26.93		1.10	567	0	3.18		28.11	0.98	
1	503	7.64	34.586	27.02		2.55	576	0	3.27		31.46	0.78	

T G THOMPSON CRUISE 026 STATION 076 OBSERVED VALUES

DATE 02/03/68	BARO 1014.0	WEATHER X1	WIND VELOC 04	WAVE PERIOD 7
HOUR 14.0	TEMP DRY 25.3	VISIBILITY 9	WIND DIREC 33	SECCHI
LAT 17-24.0N	TEMP WET 21.6	CLOUD TYPE 3	WAVE DIREC 27	SOUNDING 2425
LONG 102-22.0W	REL HUMID 72	CLOUD AMT 5	WAVE HEIGHT 2	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	249	11.53	34.785	26.53	20	1.83	510	4	2.58		26.49	1.64	
1	298	10.89	34.746	26.62	18	1.19	519	3	2.76		25.50	1.62	
1	349	10.28	34.709	26.70		1.74	543	0	2.90		25.50	1.15	
1	399	9.26	34.648	26.82		1.66	556	0	3.03		27.03	0.75	
1	448	8.58	34.619	26.91		1.61	565	0	3.17		28.94	0.73	
1	499	7.88	34.603	27.00		1.78	574	0	3.24		31.47	0.60	
1	549	7.30	34.570	27.06		3.19	580	1	3.29		33.69	0.39	
1	599	6.77	34.551	27.12		1.70	590	0	3.33		36.39	0.00	

T G THOMPSON CRUISE 026 STATION 077 OBSERVED VALUES

DATE 03/03/68	BARO 1012.4	WEATHER X1	WIND VELOC 15	WAVE PERIOD 3
HOUR 0.8	TEMP DRY 26.0	VISIBILITY 8	WIND DIREC 05	SECCHI
LAT 17-17. N	TEMP WET 21.0	CLOUD TYPE 3	WAVE DIREC 05	SOUNDING 3749
LONG 104-00. W	REL HUMID 64	CLOUD AMT 6	WAVE HEIGHT 2	

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AOU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
1	303	10.12	34.702	26.72		0.64			2.89		25.77	1.18	
1	354	9.37	34.655	26.81		1.02			3.02		26.38	0.86	
1	404	8.49	34.616	26.92		1.36			3.14		28.88	0.67	
1	455	7.99	34.593	26.98		1.32			3.23		31.60	0.59	
1	506	7.36	34.572	27.05		0.93			3.29		32.95	0.46	
1	556	6.83	34.559	27.12		1.49			3.39		35.81	0.16	

T G THOMPSON CRUISE 026 STATION 078 OBSERVED VALUES

DATE 03/03/68 BARO 1012.7 WEATHER WIND VELOC 17 WAVE PERIOD 3  
 HOUR 13.2 TEMP DRY 24.0 VISIBILITY 8 WIND DIREC 14 SECCHI  
 LAT 18-46. N TEMP WET 21.5 CLOUD TYPE X WAVE DIREC 14 SOUNDING 4755  
 LONG 105-10. W REL HUMID 80 CLOUD AMT 9 WAVE HEIGHT 3

CAST	DEPTH	TEMP DEG.C	SAL 0/00	SIGMAT	O2 UGAT/L	O2 UGAT/L	AGU UGAT/L	O/O O2 SATN	PO4 UGAT/L	SI04 UGAT/L	NO3 UGAT/L	NO2 UGAT/L	PH
2	0	24.18	34.483	23.22	457		-37	109	0.35		1.47	0.09	8.35
2	49	16.06	34.569	25.42	73		410	15	2.22		23.89	0.15	7.77
2	98	13.09	34.768	26.21	5		507	1	2.65		26.77	0.68	7.81
2	298	10.64	34.696	26.62		1.10	539	0	2.88		26.54	1.04	7.76
2	349	9.52	34.649	26.78		1.15	553	0	3.02		26.70	0.58	
2	398	8.77	34.610	26.87		1.57	562	0	3.14		28.73	0.52	7.70
2	447	8.14	34.578	26.94		1.91	570	0	3.14		31.12	0.23	
2	503	7.43	34.543	27.02		1.53	580	0	3.21		34.04	0.00	7.67
2	550	7.13	34.540	27.06		2.38	584	0	3.13		34.96	0.00	7.65
1	989	4.52	34.548	27.39	21		604	3	3.39		42.42	0.02	7.57
1	1982	2.10	34.646	27.70	188		477	28	2.96		38.98	0.01	7.70
1	2984	1.91	34.665	27.73	232		436	35	2.81		37.62	0.03	7.70
1	3990	1.92	34.668	27.73	238		430	36	2.81		38.31	0.01	7.69
1	4700	1.99	34.675	27.73	247		419	37	2.84		37.65	0.00	7.68

T G THOMPSON CRUISE 026 STATION 078 OBSERVED VALUES

CAST	DEPTH	NH3 UGAT/L	ALK MEG/L	CO2 MMOL/L
2	0		2.45	2.06
2	49		2.44	2.26
2	98		2.44	2.30
2	298		2.46	2.34
2	348			
2	398		2.48	2.34
2	447			
2	503		2.48	2.39
2	550		2.48	
1	989		2.52	2.48
1	1982		2.57	2.43
1	2984		2.57	2.43
1	3990		2.56	2.46
1	4700		2.57	2.43

**PRODUCTIVITY DATA**

NOTE FOR PRODUCTIVITY DATA REPORT

(THOMPSON CRUISE 26)

Final Edit - January 1971

*Nitrogen*

The nitrogen uptake experiments were incubated 24 hours under natural light at simulated *in situ* intensities. The uptake rates given here represent *in situ* rates, which in most cases have been calculated from artificially stimulated uptake rates (MacIsaac and Dugdale, 1969; Dugdale and MacIsaac, 1971). The rates given here for all but the 1% light-penetration depth have been so calculated at all stations except Sta.36, and for nitrate uptake only at Stas. 24, 28, 32, and 34.

*Carbon*

The  $^{14}\text{C}$  productivity measurements given are light bottle values minus a constant dark bottle value. Samples were incubated for 24 hrs under natural light at simulated *in situ* intensities. In situations where no 1% measurement was made, zeros designated by asterisks have been entered in the report for integration purposes.

*Chlorophyll-a*

Chlorophyll values here are calculated according to Lorenzen (1967).

*Incident Radiation*

Incident radiation was measured with an Eppley pyranometer. A value marked with an asterisk is a daily value based on data from only half a day.

### *Chemistry*

Fresh samples were used for all determinations. Nitrate analyses were made in duplicate, using the method of Wood *et al.* (1967); and ammonium analyses were done in triplicate according to the procedure of Procházková (1964).

### *Comments*

The right-hand half of the first line of each station report is reserved for descriptive comments about the station or work there. Frequently the space is blank, but occasionally the entry NO<sub>3</sub> UPTAKE SUPPRESSION occurs. Such stations showed a suppression of nitrate uptake below expected rates, possibly due to the presence of high ammonium concentrations.

### *References*

- Dugdale, R. C., and J. J. MacIsaac. 1971. Some interactions of light and inorganic nitrogen in controlling nitrogen productivity in the sea. To be submitted for publication.
- Lorenzen, C. J. 1967. *Limnology and Oceanography*, 12:343-346.
- MacIsaac, J. J., and R. C. Dugdale. 1969. *Deep-Sea Research*, 16:45-57.
- Procházková, L. 1964. *Anal. Chem.*, 36:865-871.
- Wood, E. D., F. A. J. Armstrong, and F. A. Richards. 1967. J. Mar. Biol. Assn. U.K., 47:23-31.

*Units*

Nutrient and particulate concentrations . . . . .	$\mu\text{g-At/liter}$
Chlorophyll and pheophytin . . . . .	$\mu\text{g/liter}$
Carbon-14 uptake . . . . .	$\mu\text{gC/liter/day}$
Uptake velocities (V) . . . . .	$\text{day}^{-1}$
Transport rate (RH) . . . . .	$\mu\text{g-At/liter-day}$
Incident radiation . . . . .	$\text{gm-cal/cm}^2/\text{day}$
Integrated nutrient and particulate concentrations.	$\text{mg-At/m}^2$
Integrated chlorophyll and pheophytin . . . . .	$\text{mg/m}^2$
Integrated carbon-14 uptake . . . . .	$\text{mgC/m}^2/\text{day}$
Integrated transport rates (RH) . . . . .	$\text{mg-At/m}^2/\text{day}$

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 005

LATITUDE 29-32.0N LONGITUDE 117-16.0W LOCAL DATE 68/01/10 HOUR 9.0

ONE PERCENT LIGHT DEPTH 80 METERS TOTAL RADIATION

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SIO4	PERCENT 10
0		0.00			100
11		0.01			50
23		0.00			25
39		0.02			10

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT 10
0	0.05				100
11	0.04				50
23	0.04				25
39	0.05				10

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT 10
0		0.0000	0.56		0.000	100
11		0.0003	0.43		0.000	50
23		0.0000	0.35		0.000	25
39		0.0004	0.63		0.000	10

INTEGRATION LIMITS	NH4	NO3	PO4	SIO4	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3	
0.0 TO 39.0	TOTAL	0.00	0.28	0.00	0.00	1.69	0.00	0.00	0.00	17.96	0.000	0.000
0.0 TO 39.0	MEAN	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.46	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 007

LATITUDE 17-08.0N LONGITUDE 105-39.0W

LOCAL DATE 68/01/15 HOUR 8.5

ONE PERCENT LIGHT DEPTH 86 METERS

TOTAL RADIATION 410.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
1		0.05			100
12		0.06			50
25		0.02			25
42		0.04			10
86		18.48			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
1	0.06				100
12	0.05				50
25	0.05				25
42	0.05				10
86	0.15				1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
1	0.0104	0.87			0.009	100
12	0.0156	0.74			0.012	50
25	0.0034	0.87			0.003	25
42	0.0061	0.90			0.005	10
86	0.0449	0.75			0.034	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 42.0	TOTAL 0.00	1.68	0.00	0.00	2.16	0.00	0.00	0.00	35.23	0.000	0.288
0.0 TO 42.0	MEAN 0.00	0.04	0.00	0.00	0.05	0.00	0.00	0.00	0.84	0.000	0.007
42.0 TO 86.0	TOTAL 0.00	407.44	0.00	0.00	4.40	0.00	0.00	0.00	36.30	0.000	0.862
42.0 TO 86.0	MEAN 0.00	9.26	0.00	0.00	0.10	0.00	0.00	0.00	0.82	0.000	0.020
0.0 TO 86.0	TOTAL 0.00	409.12	0.00	0.00	6.56	0.00	0.00	0.00	71.53	0.000	1.150
0.0 TO 86.0	MEAN 0.00	4.76	0.00	0.00	0.08	0.00	0.00	0.00	0.83	0.000	0.013

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 008

LATITUDE 16-05.0N

LONGITUDE 103-22.0W

LOCAL DATE 68/01/16 HOUR 9.0

ONE PERCENT LIGHT DEPTH 86 METERS

TOTAL RADIATION 490.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SIO4	PERCENT IO
1		0.05			100
12		0.00			50
25		0.07			25
42		0.42			10
86		16.21			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
1	0.06				100
12	0.06				50
25	0.05				25
42	0.10				10
86	0.17				1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
1		0.0062	0.57		0.004	100
12		0.0000	0.46		0.000	50
25		0.0083	0.37		0.003	25
42		0.0550	0.45		0.025	10
86		0.0194	0.28		0.005	1

INTEGRATION LIMITS	NH4	NO3	PO4	SIO4	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
TOTAL											
0.0 TO 42.0	0.00	4.94	0.00	0.00	2.71	0.00	0.00	0.00	18.60	0.000	0.279
MEAN											
0.0 TO 42.0	0.00	0.12	0.00	0.00	0.06	0.00	0.00	0.00	0.44	0.000	0.007
TOTAL											
42.0 TO 86.0	0.00	365.86	0.00	0.00	5.94	0.00	0.00	0.00	16.06	0.000	0.664
MEAN											
42.0 TO 86.0	0.00	8.31	0.00	0.00	0.14	0.00	0.00	0.00	0.36	0.000	0.015
TOTAL											
0.0 TO 86.0	0.00	370.80	0.00	0.00	8.65	0.00	0.00	0.00	34.66	0.000	0.943
MEAN											
0.0 TO 86.0	0.00	4.31	0.00	0.00	0.10	0.00	0.00	0.00	0.40	0.000	0.011

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 015

LATITUDE 14-03.0N

LONGITUDE 102-12.0W

LOCAL DATE 68/01/22 HOUR 13.0

ONE PERCENT LIGHT DEPTH 65 METERS

TOTAL RADIATION 518.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	0.22	0.05			100
10		0.05			50
20	0.20	0.05			25
35	0.21	0.05			10
65	0.24	3.39			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.10			7.8	100
10	0.11			4.2	50
20	0.13			10.0	25
35	0.18			21.6	10
65	0.44			0.0	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.0393	0.0204	0.67	0.026	0.014	100
10		0.0154	0.73		0.011	50
20	0.0143	0.0286	0.56	0.008	0.016	25
35	0.0165	0.0326	0.59	0.010	0.019	10
65	0.0022	0.0606	0.52	0.001	0.032	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 35.0	TOTAL 7.27	1.75	0.00	0.00	4.57	0.00	0.00	368.04	22.07	0.476	0.525
0.0 TO 35.0	MEAN 0.21	0.05	0.00	0.00	0.13	0.00	0.00	10.56	0.63	0.014	0.015
35.0 TO 65.0	TOTAL 6.75	51.60	0.00	0.00	9.30	0.00	0.00	324.04	16.65	0.163	0.761
35.0 TO 65.0	MEAN 0.22	1.77	0.00	0.00	0.31	0.00	0.00	10.84	0.55	0.005	0.025
0.0 TO 65.0	TOTAL 14.02	53.35	0.00	0.00	13.87	0.00	0.00	692.04	38.72	0.640	1.286
0.0 TO 65.0	MEAN 0.22	0.82	0.00	0.00	0.21	0.00	0.00	10.69	0.60	0.010	0.020

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 016

LATITUDE 11-25.0N

LONGITUDE 099-52.0W

LOCAL DATE 68/01/24 HOUR 11.0

ONE PERCENT LIGHT DEPTH 22 METERS

TOTAL RADIATION 468.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	0.31	0.02			100
3	0.28	0.02			50
6	0.32	0.02			25
11	0.22	0.04			10
22	0.77	4.94			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	2.94			278.1	100
3	2.65			290.7	50
6	3.09			307.0	25
11	2.85			326.3	10
22	1.26			2.0	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.0615	0.0002	5.19	0.319	0.001	100
3	0.0567	0.0002	5.70	0.323	0.001	50
6	0.0646	0.0002	4.73	0.306	0.001	25
11	0.0447	0.0002	5.13	0.229	0.001	10
22	0.0358	0.0145	2.30	0.082	0.033	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 11.0	TOTAL 3.13	0.27	0.00	0.00	31.84	0.00	0.00	3333.04	56.63	3.244	0.011
0.0 TO 11.0	MEAN 0.28	0.02	0.00	0.00	2.89	0.00	0.00	303.04	5.15	0.295	0.001
11.0 TO 22.0	TOTAL 5.44	27.39	0.00	0.00	22.60	0.00	0.00	1805.69	40.86	1.714	0.189
11.0 TO 22.0	MEAN 0.49	2.49	0.00	0.00	2.05	0.00	0.00	164.20	3.71	0.156	0.017
0.0 TO 22.0	TOTAL 8.58	27.66	0.00	0.00	54.45	0.00	0.00	5138.70	97.49	4.958	0.200
0.0 TO 22.0	MEAN 0.39	1.26	0.00	0.00	2.47	0.00	0.00	233.62	4.43	0.225	0.009

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 018

LATITUDE 13-09.0N LONGITUDE 098-32.0W

LOCAL DATE 68/01/25 HOUR 11.0

ONE PERCENT LIGHT DEPTH 78 METERS

TOTAL RADIATION 396.\*

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SIO4	PERCENT IO
0	0.08	0.04			100
12	0.08	0.04			50
24	0.14	0.04			25
39	0.25	3.45			10
78		32.17			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.08				100
12	0.10				50
24	0.11				25
39	0.44				10
78	0.04				1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.0342	0.0009	0.29	0.010	0.000	100
12	0.0504	0.0020	0.39	0.020	0.001	50
24	0.0420	0.0049	0.80	0.034	0.004	25
39	0.0212	0.0344	0.96	0.020	0.033	10
78		0.0292	0.37		0.011	1

INTEGRATION LIMITS	NH4	NO3	PO4	SIO4	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 39.0	TOTAL 5.20	27.13	0.00	0.00	6.46	0.00	0.00	0.00	24.42	0.902	0.312
0.0 TO 39.0	MEAN 0.13	0.70	0.00	0.00	0.17	0.00	0.00	0.00	0.63	0.023	0.008
39.0 TO 78.0	TOTAL 9.75	694.59	0.00	0.00	9.36	0.00	0.00	0.00	25.93	0.397	0.855
39.0 TO 78.0	MEAN 0.25	17.81	0.00	0.00	0.24	0.00	0.00	0.00	0.66	0.010	0.022
0.0 TO 78.0	TOTAL 14.95	721.72	0.00	0.00	15.82	0.00	0.00	0.00	50.35	1.298	1.166
0.0 TO 78.0	MEAN 0.19	9.25	0.00	0.00	0.20	0.00	0.00	0.00	0.65	0.017	0.015

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 020

LATITUDE 14-41.0N

LONGITUDE 096-51.0W

LOCAL DATE 68/01/26 HOUR 9.0

ONE PERCENT LIGHT DEPTH 52 METERS

TOTAL RADIATION: 533.

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.54			40.4	100
8	0.54			75.6	50
16	0.42			57.8	25
26	0.36			60.5	10
52	0.21			0.0	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 26.0	TOTAL 0.00	0.00	0.00	0.00	12.06	0.00	0.00	1589.14	0.00	0.000	0.000
0.0 TO 26.0	MEAN 0.00	0.00	0.00	0.00	0.46	0.00	0.00	61.16	0.00	0.000	0.000
26.0 TO 52.0	TOTAL 0.00	0.00	0.00	0.00	7.41	0.00	0.00	786.55	0.00	0.000	0.000
26.0 TO 52.0	MEAN 0.00	0.00	0.00	0.00	0.28	0.00	0.00	30.30	0.00	0.000	0.000
0.0 TO 52.0	TOTAL 0.00	0.00	0.00	0.00	19.47	0.00	0.00	2375.64	0.00	0.000	0.000
0.0 TO 52.0	MEAN 0.00	0.00	0.00	0.00	0.37	0.00	0.00	45.73	0.00	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 024

LATITUDE 16-00.0N

LONGITUDE 095-12.0W

LOCAL DATE 68/01/27 HOUR 9.8

ONE PERCENT LIGHT DEPTH 23 METERS

TOTAL RADIATION

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	0.24	2.70			100
3	0.34	2.83			50
6	0.15	3.04			25
10	0.29	3.29			10
23		7.09			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	5.49			439.8	100
3	4.12			439.8	50
6	3.89			439.8	25
10	3.24			424.3	10
23	2.70			6.9	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.0390	0.2426	3.83	0.149	0.929	100
3	0.0356	0.2369	4.20	0.150	0.995	50
6	0.0234	0.2724	4.35	0.102	1.185	25
10	0.0545	0.2213	3.57	0.195	0.790	10
23		0.0163	2.46		0.040	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 10.0	TOTAL 2.48	29.76	0.00	0.00	40.48	0.00	0.00	4367.04	40.71	1.418	10.106
0.0 TO 10.0	MEAN 0.25	2.98	0.00	0.00	4.05	0.00	0.00	436.74	4.07	0.142	1.011
10.0 TO 23.0	TOTAL 3.77	67.47	0.00	0.00	38.61	0.00	0.00	2802.84	39.19	1.265	5.396
10.0 TO 23.0	MEAN 0.29	5.19	0.00	0.00	2.97	0.00	0.00	215.64	3.01	0.097	0.415
0.0 TO 23.0	TOTAL 6.25	97.23	0.00	0.00	79.09	0.00	0.00	7169.84	79.90	2.683	15.502
0.0 TO 23.0	MEAN 0.27	4.23	0.00	0.00	3.44	0.00	0.00	311.79	3.47	0.117	0.674

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 025

LATITUDE 13-58.0N

LONGITUDE 093-30.0W

LOCAL DATE 68/01/28 HOUR 13.8

ONE PERCENT LIGHT DEPTH 37 METERS

TOTAL RADIATION 511.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	0.33	0.92			100
5	0.22	1.12			50
9	0.19	0.75			25
15	0.32	11.94			10
37	0.38	34.50			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.92			214.8	100
5	0.62			256.6	50
9	1.19			293.9	25
15	0.96			73.9	10
37	0.12			0.8	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.0609	0.1062	3.49	0.213	0.371	100
5	0.0430	0.1322	3.72	0.160	0.492	50
9	0.0397	0.1002	3.83	0.152	0.384	25
15	0.0692	0.1097	1.82	0.126	0.200	10
37	0.0308	0.0475	1.10	0.034	0.052	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	FHNH4	RHNO3
0.0 TO 15.0	TOTAL 3.72	46.91	0.00	0.00	13.92	0.00	0.00	3382.94	50.07	2.389	5.657
0.0 TO 15.0	MEAN 0.25	3.13	0.00	0.00	0.93	0.00	0.00	225.57	3.34	0.159	0.377
15.0 TO 37.0	TOTAL 7.70	510.84	0.00	0.00	11.88	0.00	0.00	821.74	32.12	1.758	2.771
15.0 TO 37.0	MEAN 0.35	23.22	0.00	0.00	0.54	0.00	0.00	37.39	1.46	0.380	0.126
0.0 TO 37.0	TOTAL 11.42	557.75	0.00	0.00	25.80	0.00	0.00	4204.64	82.19	4.147	8.428
0.0 TO 37.0	MEAN 0.31	15.07	0.00	0.00	0.70	0.00	0.00	113.68	2.22	0.112	0.228

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 028

NO3 UPTAKE SUPPRESSION

LATITUDE 13-02.0N LONGITUDE 091-49.0W

LOCAL DATE 68/01/30 HOUR 9.2

ONE PERCENT LIGHT DEPTH 60 METERS

TOTAL RADIATION 612.\*

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	1.01	1.09			100
9	0.93	1.00			50
18	1.27	1.87			25
30	1.43	1.00			10
60	0.50	31.63			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.21			23.8	100
9	0.24			26.6	50
18	0.26			33.0	25
30	0.19			26.8	10
60	0.18			0.0	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNNH4	RHNO3	PERCENT IO
0	0.1370	0.0155	1.27	0.174	0.020	100
9	0.1132	0.0109	1.86	0.211	0.020	50
18	0.1430	0.0148	1.06	0.152	0.016	25
30	0.1302	0.0067	1.31	0.171	0.009	10
60	0.0379	0.0397	0.46	0.017	0.018	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNNH4	RHNO3
0.0 TO 30.0	TOTAL 34.83	39.54	0.00	0.00	6.97	0.00	0.00	853.84	41.44	5.293	0.488
0.0 TO 30.0	MEAN 1.16	1.32	0.00	0.00	0.23	0.00	0.00	28.50	1.38	0.176	0.016
30.0 TO 60.0	TOTAL 28.95	489.45	0.00	0.00	5.55	0.00	0.00	402.04	26.55	2.820	0.406
30.0 TO 60.0	MEAN 0.96	16.31	0.00	0.00	0.18	0.00	0.00	13.44	0.88	0.094	0.014
0.0 TO 60.0	TOTAL 63.78	528.99	0.00	0.00	12.52	0.00	0.00	1255.84	67.99	8.113	0.894
0.0 TO 60.0	MEAN 1.06	8.82	0.00	0.00	0.21	0.00	0.00	20.97	1.13	0.135	0.015

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 030

LATITUDE 10-53.0N

LONGITUDE 093-24.0W

LOCAL DATE 68/01/31 HOUR P.2

ONE PERCENT LIGHT DEPTH 46 METERS

TOTAL RADIATION 482.\*

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SIO4	PERCENT IO
0	0.33	0.04			100
4	0.27	0.04			50
8	0.15	0.06			25
19	0.20	0.09			10
46		0.08			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.31				100
4	0.46				50
8	0.31				25
19	0.34				10
46	0.52				1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.1196	0.0132	1.10	0.132	0.015	100
4	0.1232	0.0128	1.16	0.143	0.015	50
8	0.0632	0.0204	1.65	0.104	0.034	25
19	0.0969	0.0288	0.95	0.092	0.027	10
46		0.0088	1.33		0.012	1

INTEGRATION LIMITS	NH4	NO3	PO4	SIO4	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 19.0	TOTAL 3.96	1.18	0.00	0.00	6.65	0.00	0.00	0.00	24.44	2.123	0.491
0.0 TO 19.0	MEAN 0.21	0.06	0.00	0.00	0.35	0.00	0.00	0.00	1.29	0.112	0.026
19.0 TO 46.0	TOTAL 5.40	2.29	0.00	0.00	11.61	0.00	0.00	0.00	30.78	1.243	0.527
19.0 TO 46.0	MEAN 0.20	0.08	0.00	0.00	0.43	0.00	0.00	0.00	1.14	0.046	0.020
0.0 TO 46.0	TOTAL 9.36	3.48	0.00	0.00	18.26	0.00	0.00	0.00	55.22	3.366	1.019
0.0 TO 46.0	MEAN 0.20	0.08	0.00	0.00	0.40	0.00	0.00	0.00	1.20	0.073	0.022

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 032

NO3 UPTAKE SUPPRESSION

LATITUDE 09-58.0N LONGITUDE 093-22.0W

LOCAL DATE 68/02/01 HOUR 10.0

ONE PERCENT LIGHT DEPTH 58 METERS

TOTAL RADIATION 546.

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT I0
0	0.46	0.33			100
9	0.39	0.28			50
17	0.58	0.31			25
29	0.94	2.44			10
58	0.06	21.99			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT I0
0	0.14			25.5	100
9	0.32			54.4	50
17	0.34			60.1	25
29	0.70				10
58	0.14			0.0*	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT I0
0	0.0846	0.0318	1.09	0.092	0.035	100
9	0.0763	0.0235	1.56	0.119	0.037	50
17	0.0966	0.0183	1.27	0.123	0.023	25
29	0.0881	0.0302	0.97	0.085	0.029	10
58	0.0255	0.0472	0.56	0.014	0.026	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 29.0	TOTAL 16.82	21.60	0.00	0.00	10.95	0.00	0.00	1433.25	36.68	3.166	0.876
0.0 TO 29.0	MEAN 0.58	0.74	0.00	0.00	0.38	0.00	0.00	49.47	1.26	0.109	0.030
29.0 TO 58.0	TOTAL 14.50	354.23	0.00	0.00	12.18	0.00	0.00	616.44	22.18	1.446	0.808
29.0 TO 58.0	MEAN 0.50	12.21	0.00	0.00	0.42	0.00	0.00	21.30	0.76	0.050	0.028
0.0 TO 58.0	TOTAL 31.32	375.84	0.00	0.00	23.13	0.00	0.00	2049.64	58.87	4.612	1.654
0.0 TO 58.0	MEAN 0.54	6.48	0.00	0.00	0.40	0.00	0.00	35.38	1.01	0.080	0.029

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 034

LATITUDE 09-56.0N

LONGITUDE 091-15.0W

LOCAL DATE 68/02/02 HOUR 9.0

ONE PERCENT LIGHT DEPTH 39 METERS

TOTAL RADIATION

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT IO
0	0.63	9.17			100
5	0.54	9.21			50
10	0.66	9.30			25
16	0.72	9.96			10
39		18.16			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.80			57.3	100
5	0.77			112.4	50
10	0.80			95.9	25
16	0.74			82.9	10
39	0.56			3.7	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT IO
0	0.1040	0.1144	3.97	0.413	0.454	100
5	0.0970	0.1500	2.44	0.237	0.366	50
10	0.0966	0.1317	2.85	0.275	0.375	25
16	0.0850	0.0527	2.52	0.214	0.148	10
39		0.0358	1.82		0.065	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 16.0	TOTAL 10.06	150.00	0.00	0.00	12.47	0.00	0.00	1481.44	45.36	4.372	5.474
0.0 TO 16.0	MEAN 0.63	9.38	0.00	0.00	0.78	0.00	0.00	92.63	2.83	0.273	0.342
16.0 TO 39.0	TOTAL 16.56	323.38	0.00	0.00	14.95	0.00	0.00	995.94	49.91	2.463	2.450
16.0 TO 39.0	MEAN 0.72	14.06	0.00	0.00	0.65	0.00	0.00	43.34	2.17	0.107	0.107
0.0 TO 39.0	TOTAL 26.62	473.38	0.00	0.00	27.42	0.00	0.00	2477.34	95.27	6.836	7.924
0.0 TO 39.0	MEAN 0.68	12.14	0.00	0.00	0.70	0.00	0.00	63.57	2.44	0.175	0.203

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 036

NO3 UPTAKE SUPPRESSION

LATITUDE 10-06.0N LONGITUDE 089-26.0W

LOCAL DATE 68/02/03 HOUR 11.8

ONE PERCENT LIGHT DEPTH 54 METERS

TOTAL RADIATION 626.\*

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT 10
0	0.48	16.15			100
8	0.46	16.06			50
16	0.45	16.09			25
27	0.45	15.61			10
54	0.46	29.18			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT 10
0	0.20				100
8	0.19				50
16	0.28				25
27	0.30				10
54	0.31				1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT 10
0	0.0724	0.0419	1.99	0.144	0.083	100
8	0.0692	0.0361	1.85	0.128	0.067	50
16	0.0643	0.0222	1.81	0.116	0.040	25
27	0.0834	0.0311	2.53	0.211	0.079	10
54	0.0440	0.0360	1.83	0.081	0.066	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 27.0	TOTAL 12.35	431.79	0.00	0.00	6.63	0.00	0.00	0.00	53.87	3.867	1.682
0.0 TO 27.0	MEAN 0.46	15.99	0.00	0.00	0.25	0.00	0.00	0.00	2.00	0.143	0.062
27.0 TO 54.0	TOTAL 12.28	604.66	0.00	0.00	8.23	0.00	0.00	0.00	58.86	3.936	1.952
27.0 TO 54.0	MEAN 0.45	22.39	0.00	0.00	0.30	0.00	0.00	0.00	2.18	0.146	0.072
0.0 TO 54.0	TOTAL 24.63	1036.45	0.00	0.00	14.86	0.00	0.00	0.00	112.73	7.802	3.634
0.0 TO 54.0	MEAN 0.46	19.19	0.00	0.00	0.28	0.00	0.00	0.00	2.09	0.144	0.057

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 038

LATITUDE 10-04.0N

LONGITUDE 088-15.0W

LOCAL DATE 68/02/04 HOUR 10.0

ONE PERCENT LIGHT DEPTH 20 METERS

TOTAL RADIATION 511.\*

\*\*\* NUTRIENT DATA \*\*\*

DEPTH	NH4	NO3	PO4	SI04	PERCENT 10
0		0.12			100
3		0.11			50
5		0.10			25
9		0.09			10
20		0.39			1

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT 10
0	4.12			213.5	100
3	4.22			400.0	50
5	6.27			257.8	25
9	4.41			197.2	10
20	5.73			10.8	1

\*\*\* NITROGEN DATA \*\*\*

DEPTH	VNH4	VNO3	PN	RHNH4	RHNO3	PERCENT 10
0		0.0399	4.32		0.172	100
3		0.0355	4.66		0.165	50
5		0.0327	4.15		0.136	25
9		0.0289	4.40		0.127	10
20		0.0237	4.42		0.105	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 9.0	TOTAL 0.00	0.93	0.00	0.00	44.36	0.00	0.00	2488.09	39.38	0.000	1.334
0.0 TO 9.0	MEAN 0.00	0.10	0.00	0.00	4.93	0.00	0.00	276.49	4.38	0.000	0.148
9.0 TO 20.0	TOTAL 0.00	2.64	0.00	0.00	55.77	0.00	0.00	1144.04	48.51	0.000	1.276
9.0 TO 20.0	MEAN 0.00	0.24	0.00	0.00	5.07	0.00	0.00	104.04	4.41	0.000	0.116
0.0 TO 20.0	TOTAL 0.00	3.57	0.00	0.00	100.13	0.00	0.00	3632.09	87.89	0.000	2.609
0.0 TO 20.0	MEAN 0.00	0.18	0.00	0.00	5.01	0.00	0.00	181.65	4.39	0.000	0.130

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 041

LATITUDE 08-54.0N

LONGITUDE 087-50.0W

LOCAL DATE 68/02/11 HOUR 14.6

ONE PERCENT LIGHT DEPTH

47 METERS

TOTAL RADIATION

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.18			39.8	100
9	0.32			65.5	50
16	0.57			19.2	25
24	0.51				10
47	0.06			0.7	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 24.0	TOTAL 0.00	0.00	0.00	0.00	9.68	0.00	0.00	904.85	0.00	0.000	0.000
0.0 TO 24.0	MEAN 0.00	0.00	0.00	0.00	0.40	0.00	0.00	37.75	0.00	0.000	0.000
24.0 TO 47.0	TOTAL 0.00	0.00	0.00	0.00	6.55	0.00	0.00	173.99	0.00	0.000	0.000
24.0 TO 47.0	MEAN 0.00	0.00	0.00	0.00	0.28	0.00	0.00	7.61	0.00	0.000	0.000
0.0 TO 47.0	TOTAL 0.00	0.00	0.00	0.00	16.24	0.00	0.00	1078.79	0.00	0.000	0.000
0.0 TO 47.0	MEAN 0.00	0.00	0.00	0.00	0.35	0.00	0.00	23.00	0.00	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 050

LATITUDE 08-55.0N LONGITUDE 089-34.0W

LOCAL DATE 68/02/14 HOUR 17.6

ONE PERCENT LIGHT DEPTH 62 METERS

TOTAL RADIATION

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.33			142.9	100
11	0.39			122.8	50
20	0.47			76.2	25
32	0.47				10
62	0.23			2.2	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNN4	RHNO3
0.0 TO 32.0	TOTAL 0.00	0.00	0.00	0.00	13.47	0.00	0.00	3144.44	0.00	0.000	0.000
0.0 TO 32.0	MEAN 0.00	0.00	0.00	0.00	0.42	0.00	0.00	98.31	0.00	0.000	0.000
32.0 TO 62.0	TOTAL 0.00	0.00	0.00	0.00	10.50	0.00	0.00	852.90	0.00	0.000	0.000
32.0 TO 62.0	MEAN 0.00	0.00	0.00	0.00	0.35	0.00	0.00	28.67	0.00	0.000	0.000
0.0 TO 62.0	TOTAL 0.00	0.00	0.00	0.00	23.97	0.00	0.00	4003.29	0.00	0.000	0.000
0.0 TO 62.0	MEAN 0.00	0.00	0.00	0.00	0.39	0.00	0.00	64.61	0.00	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 057

LATITUDE 08-53.0N

LONGITUDE 088-50.0W

LOCAL DATE 68/02/17 HOUR 11.8

ONF PERCENT LIGHT DEPTH 32 METERS

TOTAL RADIATION

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.73			181.8	100
4	0.89			211.4	50
8	0.76			78.9	25
14	0.78			67.0	10
32	0.60			0.8	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNM4	RHNO3
0.0 TO 14.0	TOTAL 0.00	0.00	0.00	0.00	11.16	0.00	0.00	1804.74	0.00	0.000	0.000
0.0 TO 14.0	MEAN 0.00	0.00	0.00	0.00	0.80	0.00	0.00	128.95	0.00	0.000	0.000
14.0 TO 32.0	TOTAL 0.00	0.00	0.00	0.00	12.42	0.00	0.00	610.24	0.00	0.000	0.000
14.0 TO 32.0	MEAN 0.00	0.00	0.00	0.00	0.69	0.00	0.00	33.94	0.00	0.000	0.000
0.0 TO 32.0	TOTAL 0.00	0.00	0.00	0.00	23.58	0.00	0.00	2414.94	0.00	0.000	0.000
0.0 TO 32.0	MEAN 0.00	0.00	0.00	0.00	0.74	0.00	0.00	75.51	0.00	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 062

LATITUDE 08-34.0N LONGITUDE 088-26.0W

LOCAL DATE 68/02/19 HOUR 16.6

ONE PERCENT LIGHT DEPTH 37 METERS

TOTAL RADIATION

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT 10
0	0.34			41.5	100
7	0.53			61.7	50
12	0.63			61.5	25
19	0.68			39.5	10
37	1.02			19.9	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNH4	RHNO3
0.0 TO 19.0	TOTAL 0.00	0.00	0.00	0.00	10.53	0.00	0.00	1022.74	0.00	0.000	0.000
0.0 TO 19.0	MEAN 0.00	0.00	0.00	0.00	0.55	0.00	0.00	53.87	0.00	0.000	0.000
19.0 TO 37.0	TOTAL 0.00	0.00	0.00	0.00	15.30	0.00	0.00	534.64	0.00	0.000	0.000
19.0 TO 37.0	MEAN 0.00	0.00	0.00	0.00	0.85	0.00	0.00	29.74	0.00	0.000	0.000
0.0 TO 37.0	TOTAL 0.00	0.00	0.00	0.00	25.83	0.00	0.00	1557.34	0.00	0.000	0.000
0.0 TO 37.0	MEAN 0.00	0.00	0.00	0.00	0.70	0.00	0.00	42.13	0.00	0.000	0.000

NITROGEN PRODUCTIVITY CRUISE TT026 STATION 068

LATITUDE 08-53.0N LONGITUDE 088-24.0W

LOCAL DATE 68/02/22 HOUR 10.0

ONE PERCENT LIGHT DEPTH 50 METERS

TOTAL RADIATION

\*\*\* CARBON DATA \*\*\*

DEPTH	CHLORO-A	PHAEO-P	PART. C	C14-UP.	PERCENT IO
0	0.19			33.6	100
8	0.20			66.5	50
16	0.35			50.3	25
26	0.15			5.8	10
50	0.16			0.0	1

INTEGRATION LIMITS	NH4	NO3	PO4	SI04	CHLORO-A	PHAEO-P	PART.C	C14-UP.	PN	RHNNH4	RHNO3
0.0 TO 26.0	TOTAL 0.00	0.00	0.00	0.00	6.26	0.00	0.00	1148.14	0.00	0.000	0.000
0.0 TO 26.0	MEAN 0.00	0.00	0.00	0.00	0.24	0.00	0.00	44.20	0.00	0.000	0.000
26.0 TO 50.0	TOTAL 0.00	0.00	0.00	0.00	3.72	0.00	0.00	69.64	0.00	0.000	0.000
26.0 TO 50.0	MEAN 0.00	0.00	0.00	0.00	0.15	0.00	0.00	2.94	0.00	0.000	0.000
0.0 TO 50.0	TOTAL 0.00	0.00	0.00	0.00	9.98	0.00	0.00	1217.74	0.00	0.000	0.000
0.0 TO 50.0	MEAN 0.00	0.00	0.00	0.00	0.20	0.00	0.00	24.40	0.00	0.000	0.000

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14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
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