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TECHNICAL REPORT

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HYDROGRAPHIC AND NUTRIENT DATA  
DAMARISCOTTA RIVER ESTUARY  
LINCOLN COUNTY, MAINE  
1967-1977

BERNARD J. McALICE



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DAMARISCOTTA RIVER ESTUARY

LINCOLN COUNTY, MAINE

1967-1977

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**Sea Grant Depository**

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## INTRODUCTION

Interest in Maine's coastal waters grows as does the pressure placed upon them by what we are pleased to call civilization. This interest dictates that information on those waters be easily available to all their users. This report presents most of the hydrographic and nutrient data for the Damariscotta River estuary collected from October 1967 through December 1977. McAlice's (1977) discussion of the hydrography of the estuary was based on intensive sampling during the summers of 1968 and 1969, and seasonal cruises in 1970 and 1971. Petrie (1975) collected hydrographic and nutrient data at several stations from June 1969 to May 1970. Sampling has been carried out routinely at station D7 (Fig. 1) since June 1969. All these data are given here. Lee (1974) measured temperature, salinity, and turbidity at three stations from November 1971 to December 1972. His data are not included, nor are those from a few occasional or incidental studies.

## METHODS

Temperature and salinity were measured with a Beckman RS5-3 field salinometer, except where noted. This instrument was periodically checked against a laboratory thermometer and a Beckman RS7-B laboratory salinometer calibrated with Copenhagen standard seawater. The field salinometer did not read below 0°C; any zero readings in the data should be interpreted as  $\leq 0^\circ\text{C}$ . Extinction coefficients were calculated from Secchi disc measurements, using the relation  $k = 1.44/D$  recommended by Holmes (1970) for coastal waters; D is the depth at which the Secchi disc disappears.

Dissolved oxygen was determined by a modification of the standard Winkler method, using phenylarsine oxide as titrant instead of the less stable sodium thiosulfate.

Through January 1974 nitrate was determined by the method of Mullin and Riley (1955). Beginning in February 1975 the procedure of Wood, Armstrong, and Richards (1967) was used. Determinations of phosphate, silicate, and nitrite followed the procedures given by Strickland and Parsons (1968). The method of Solorzano (1969) was used for ammonia analyses, and that of McCarthy (1970) for urea.

## PRESENTATION OF THE DATA

Table 1 summarizes the periods for which the several kinds of data are available at the stations shown in Figure 1. Mid-channel isopleths of temperature (Fig. 2) and salinity (Fig. 3) between stations D1 and D8 are given for selected dates. Isopleths of temperature (Fig. 4) and salinity (Fig. 5) in

the top 10 m at station D7 cover the period January 1970 through December 1976. Changes in the 0.5 m and 9 m values of temperature, salinity, nitrate, phosphate, silicate, and dissolved oxygen from January 1970 through December 1977 are shown in Figures 6-11. Monthly summaries of measurements of temperature, salinity, and nitrate (Fig. 12) and of phosphate, silicate, and dissolved oxygen (Fig. 13) made at station D7 from January 1970 through December 1976 complete the graphic presentation. The bulk of the report then consists of a tabulation of the data.

#### ACKNOWLEDGMENTS

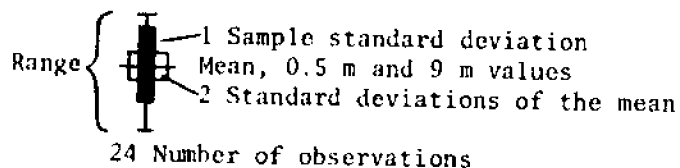
Many people assisted in the collection of these data. Particular thanks are due Wayne Petrie, who gathered much of the summer hydrographic information in 1968 and 1969, and also allowed me to include his own unpublished data. Robert Packie established the analytical procedures for nutrients, and Stephen Macko extensively refined them. Field or laboratory assistance was also given by David Carlson, Jerome Cura, Harold Elliot, Byron Hollet, Gretchen Hull, Nancy Leavitt, Wen-Yuh Lee, Carol Manen, Arthur Mayers, Daniel Plasse, and Lanny Whitten. Principal financial support was provided by the Maine Geological Survey and Maine Yankee Atomic Power Company

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FIGURE LEGENDS

- Figure 1. Damariscotta River estuary showing sampling stations.
- Figure 2. Mid-channel profiles of temperatures, Damariscotta to Fort Island.
- Figure 3. Mid-channel profiles of salinities, Damariscotta to Fort Island.
- Figure 4. Vertical temperature structure at station D7, 1970-1976.
- Figure 5. Vertical salinity structure at station D7, 1970-1976.
- Figure 6. Temperatures at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 7. Salinities at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 8. Nitrate at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 9. Phosphate at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 10. Silicate at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 11. Dissolved oxygen at 0.5 m (solid line) and 9 m (broken line) at D7, 1970-1977.
- Figure 12. Monthly summaries at D7 of temperature, salinity, and nitrate, 1970-1976.



- Figure 13. Monthly summaries at D7 of phosphate, silicate, and dissolved oxygen, 1970-1976. Symbols as in Figure 12.



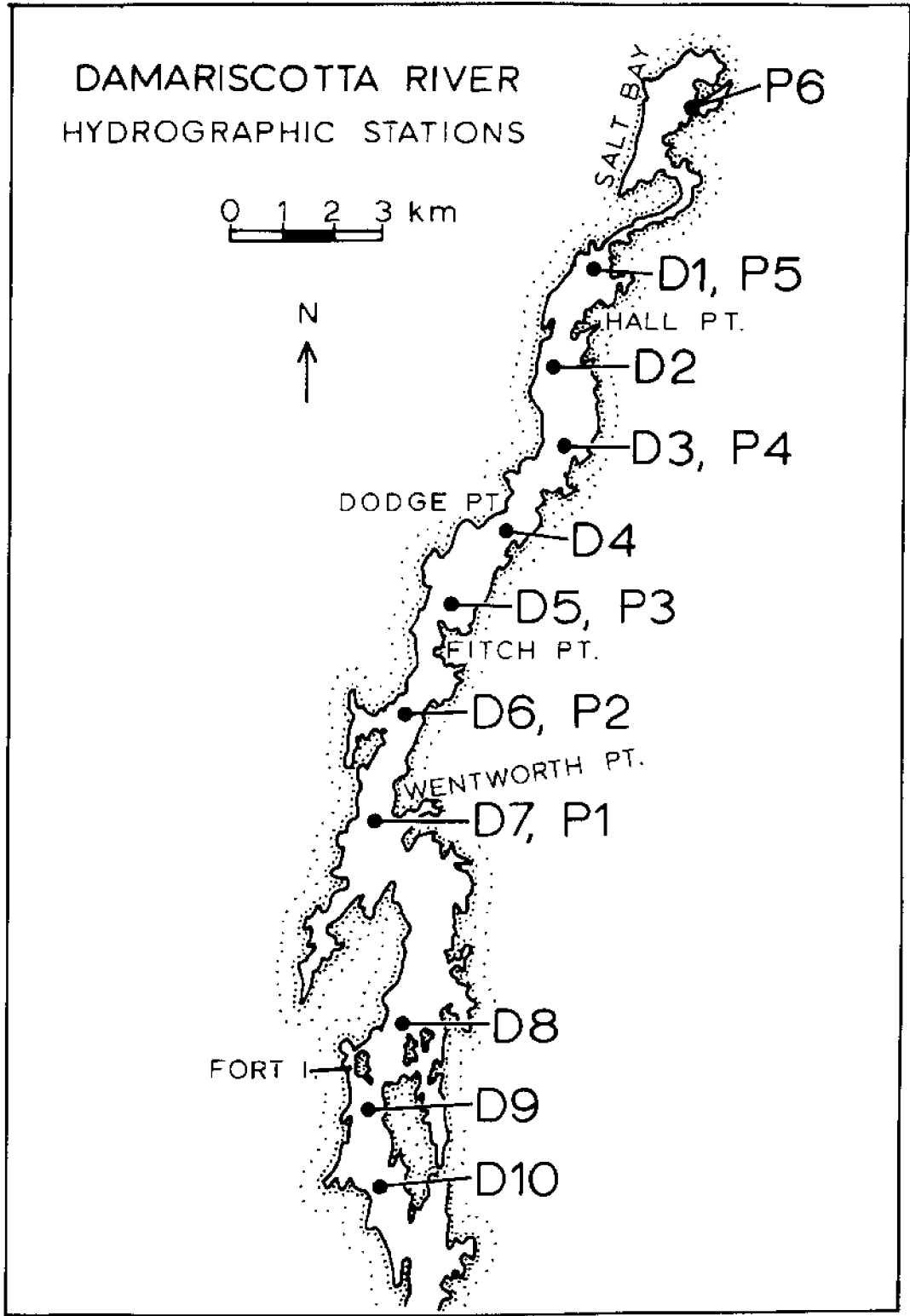


Figure 1

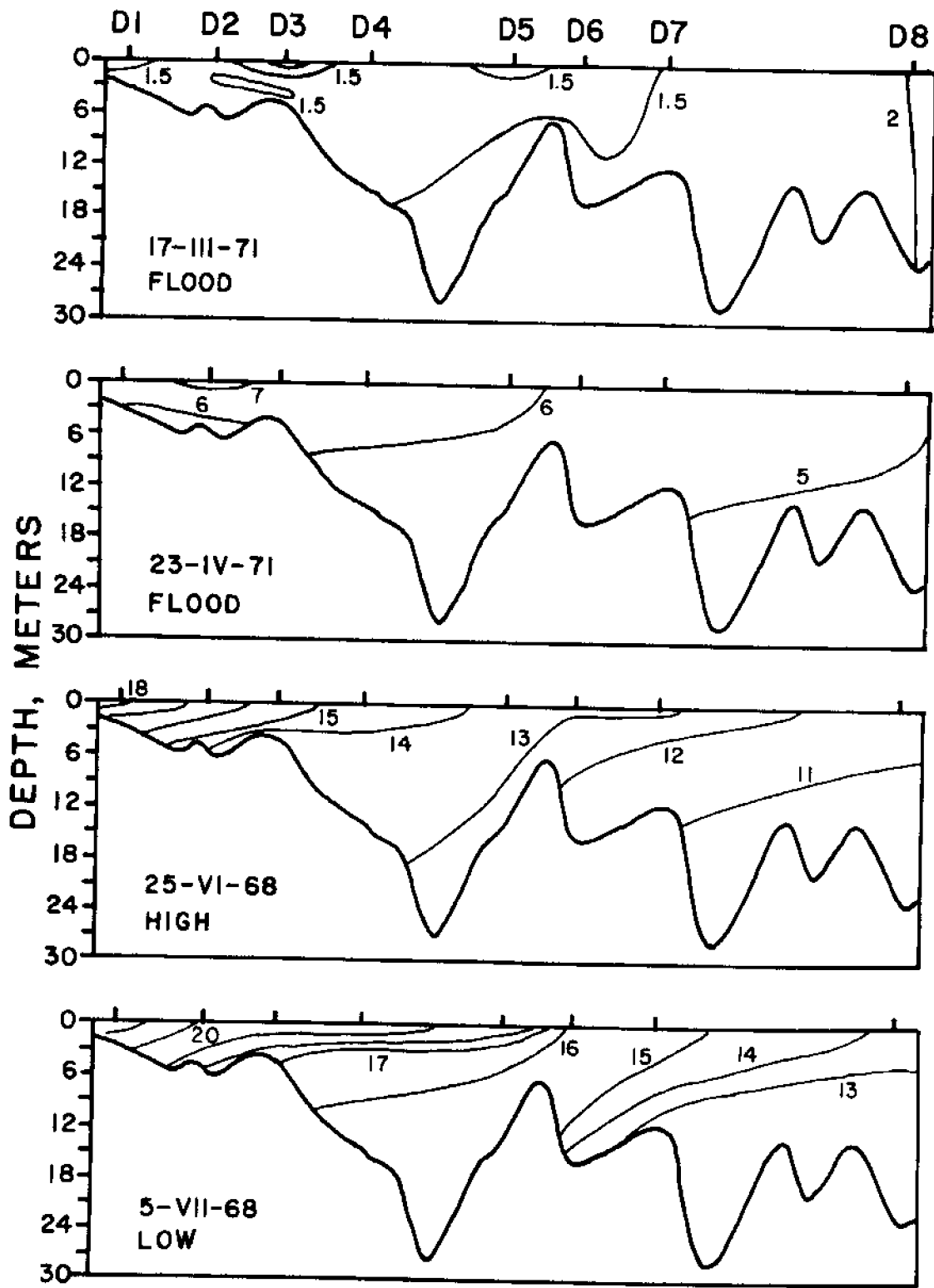


Figure 2A

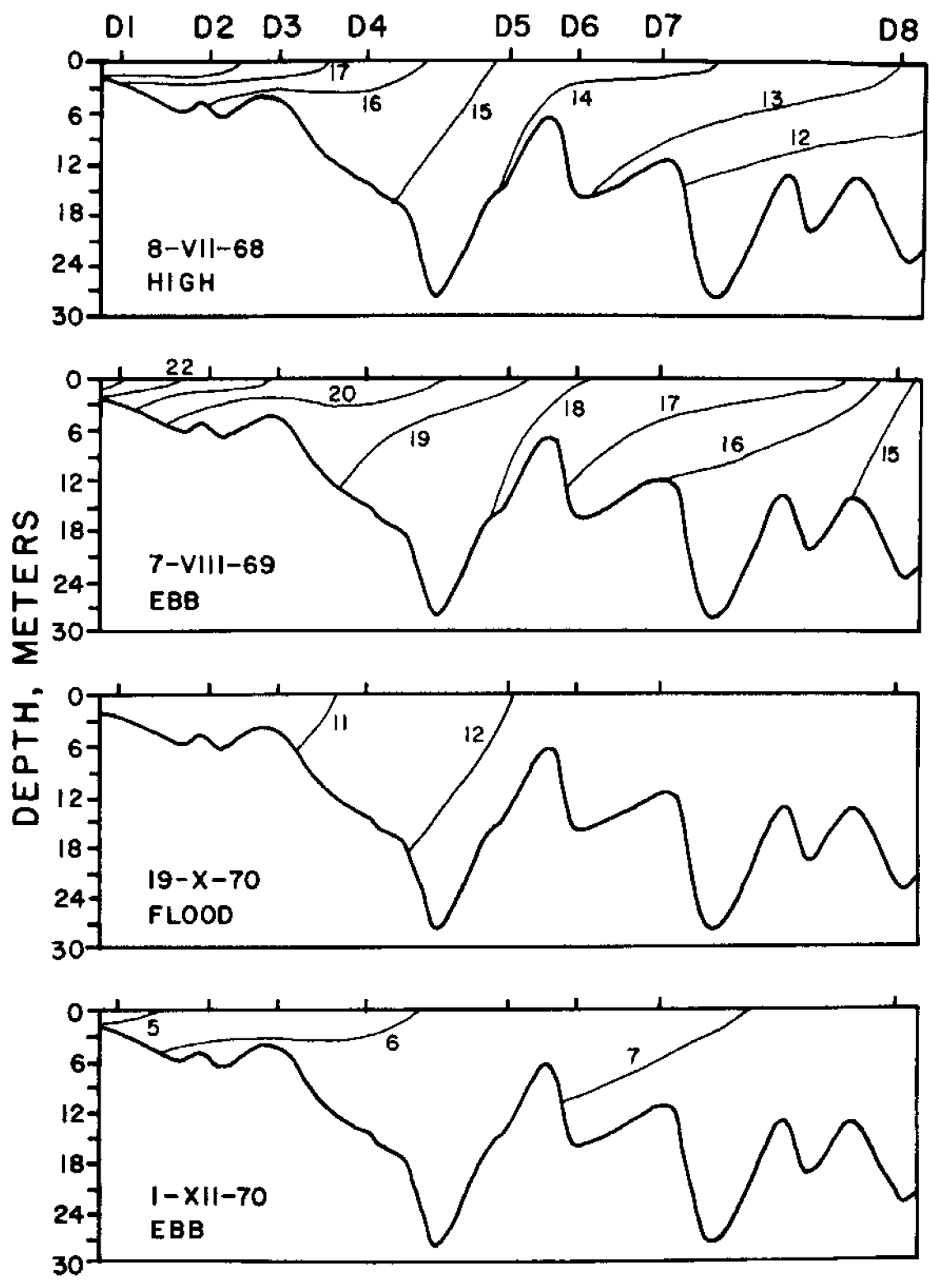


Figure 2B

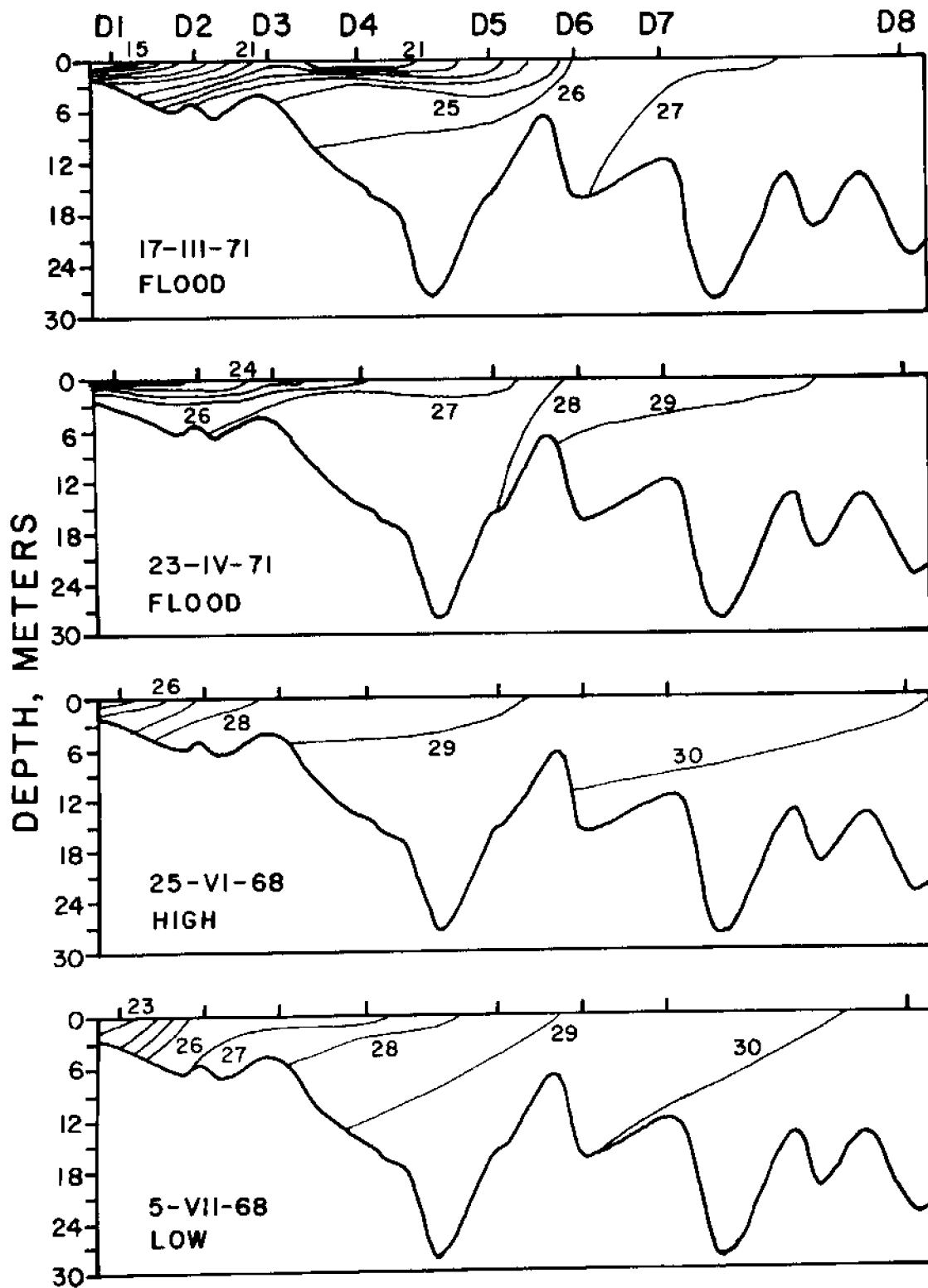


Figure 3A

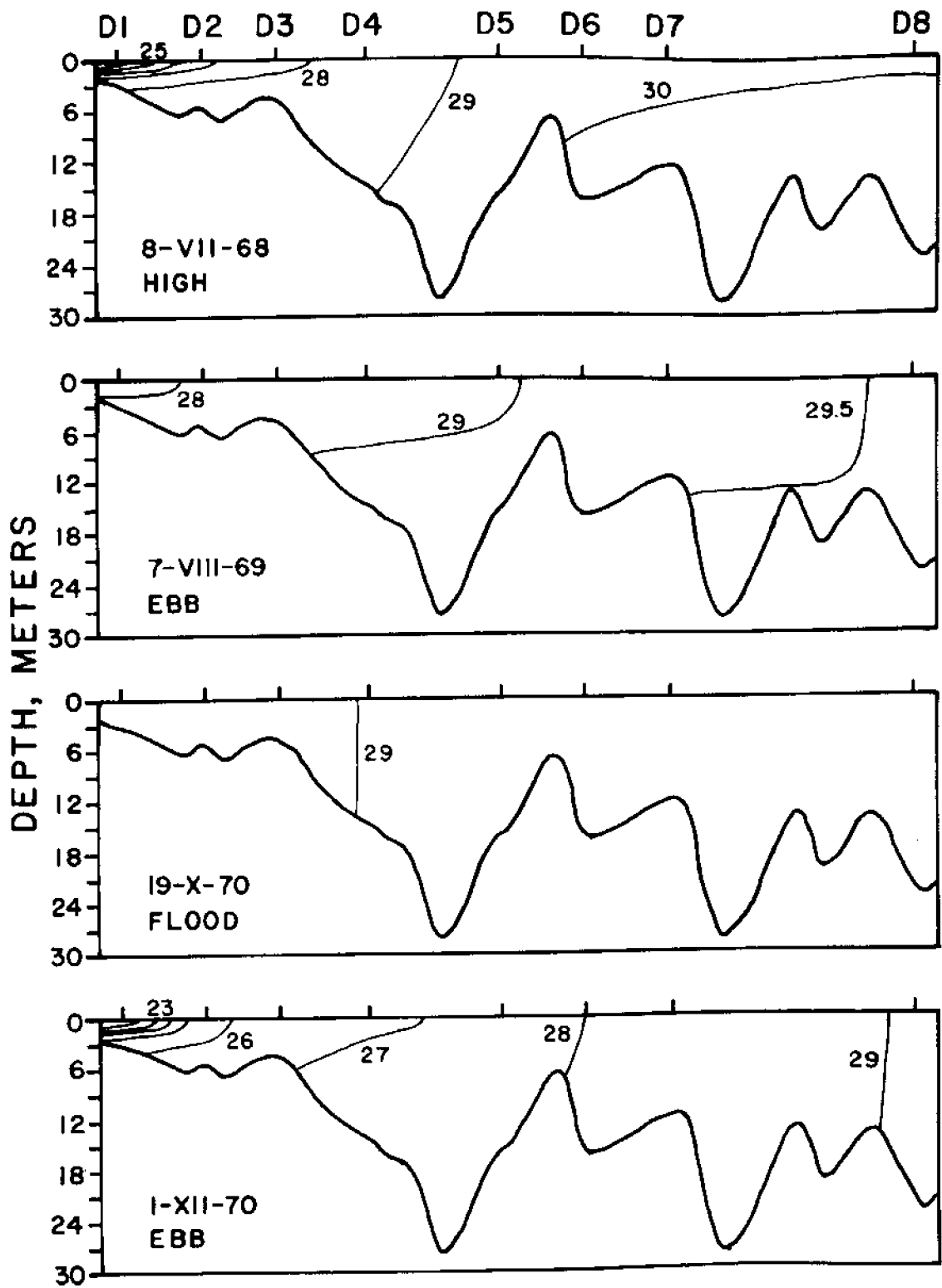


Figure 3B

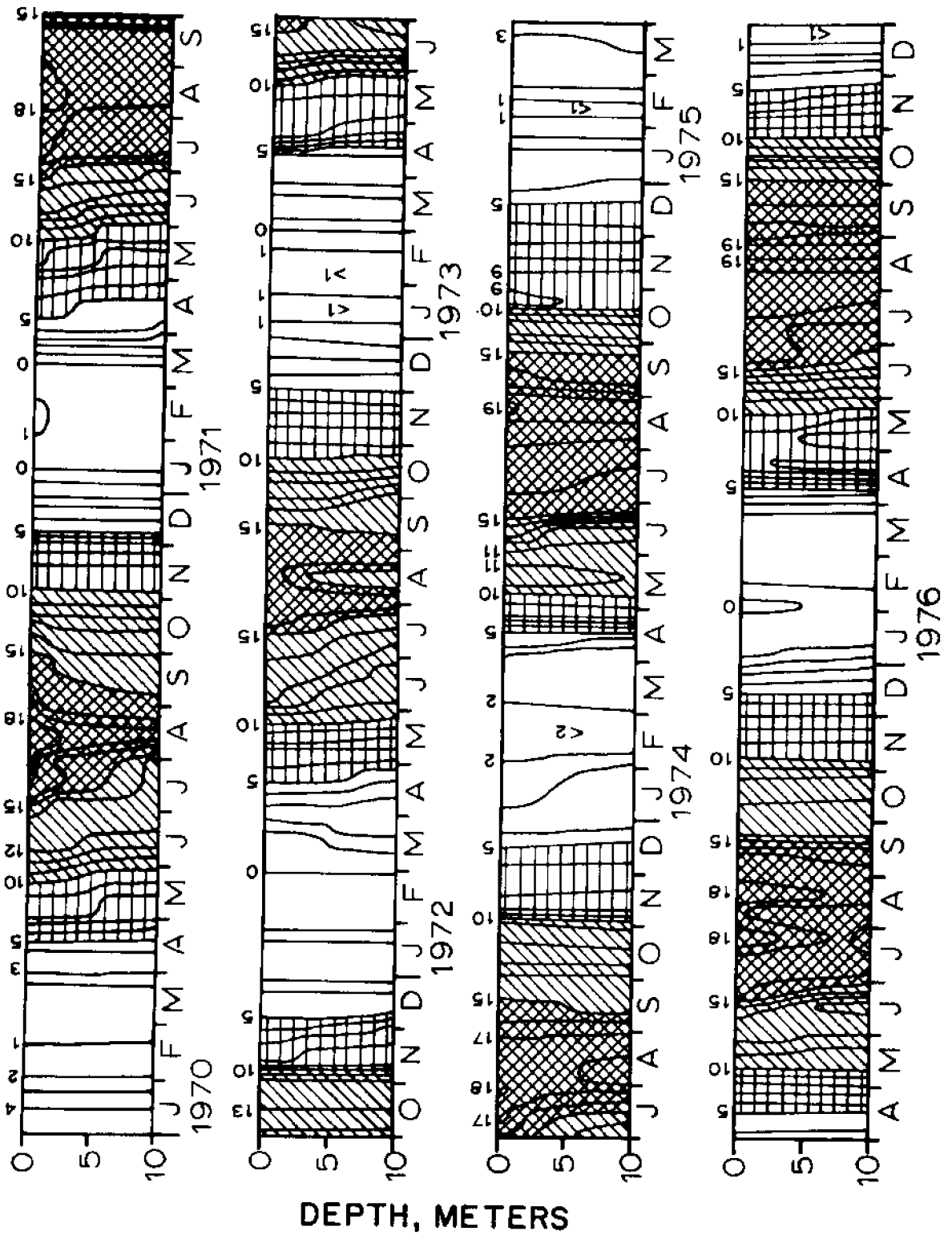


Figure 4

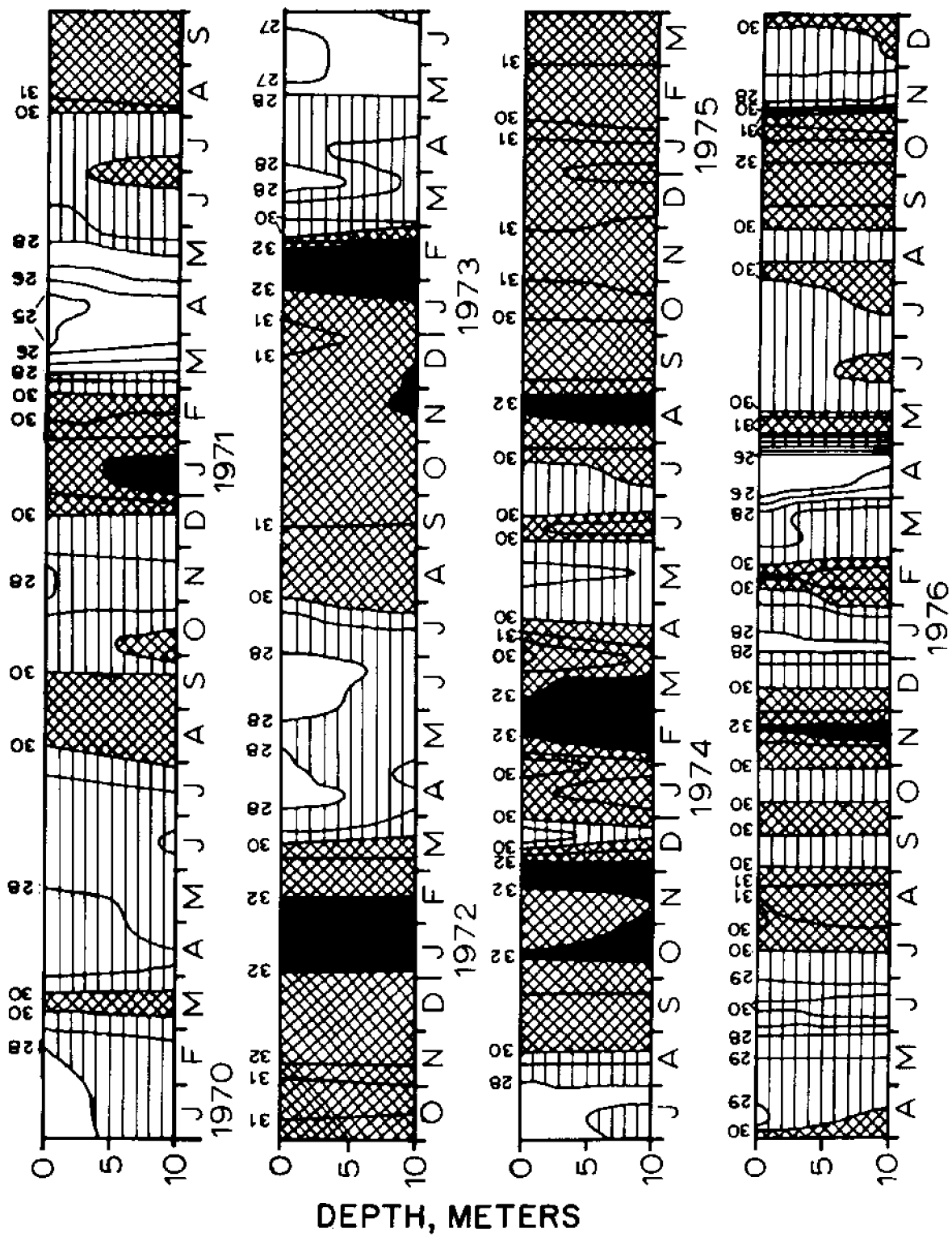


Figure 5

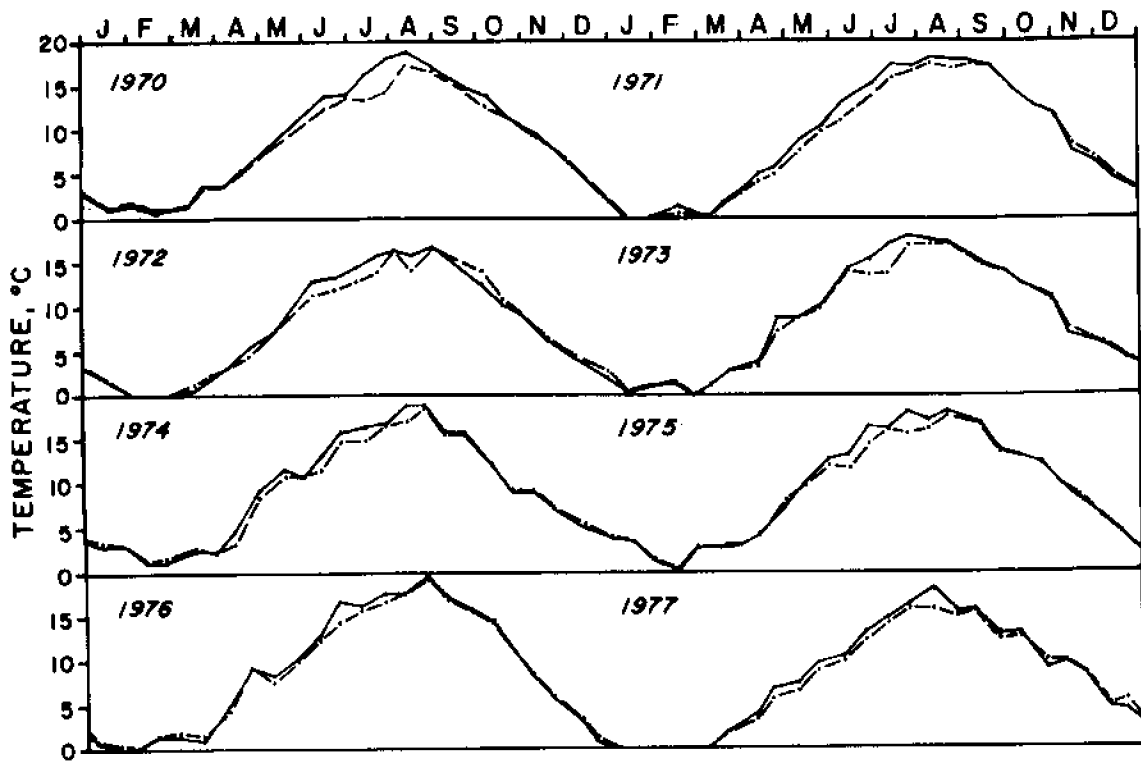


Figure 6

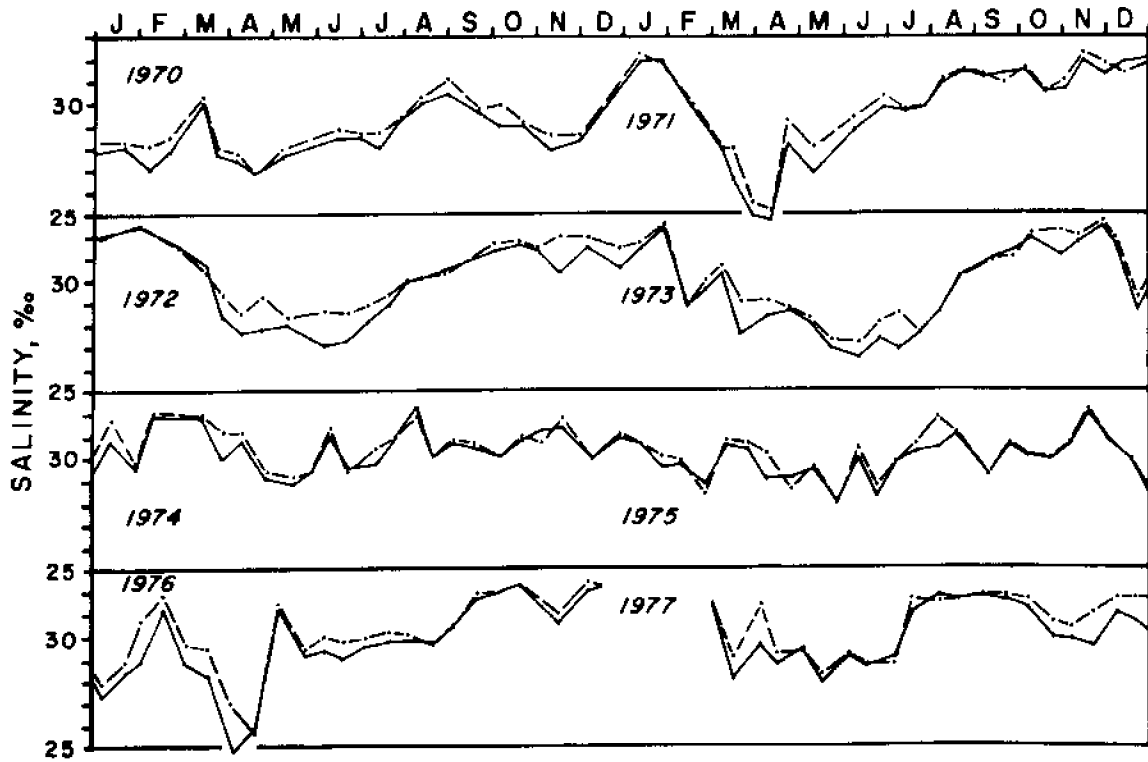


Figure 7



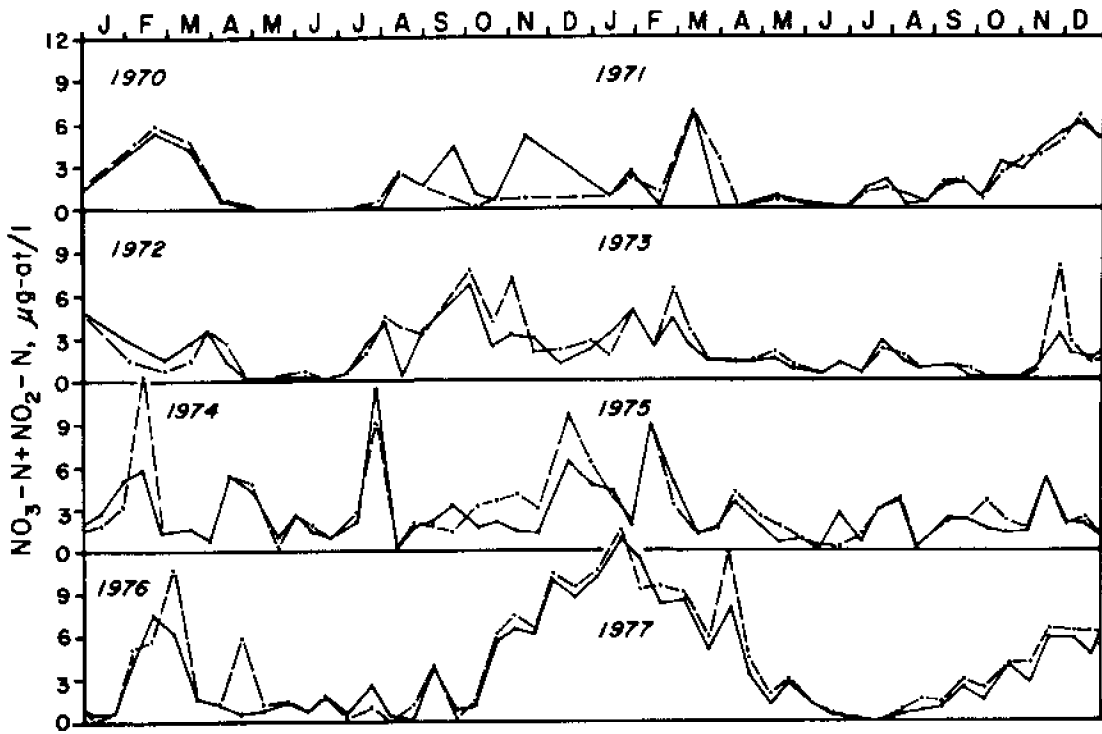


Figure 8

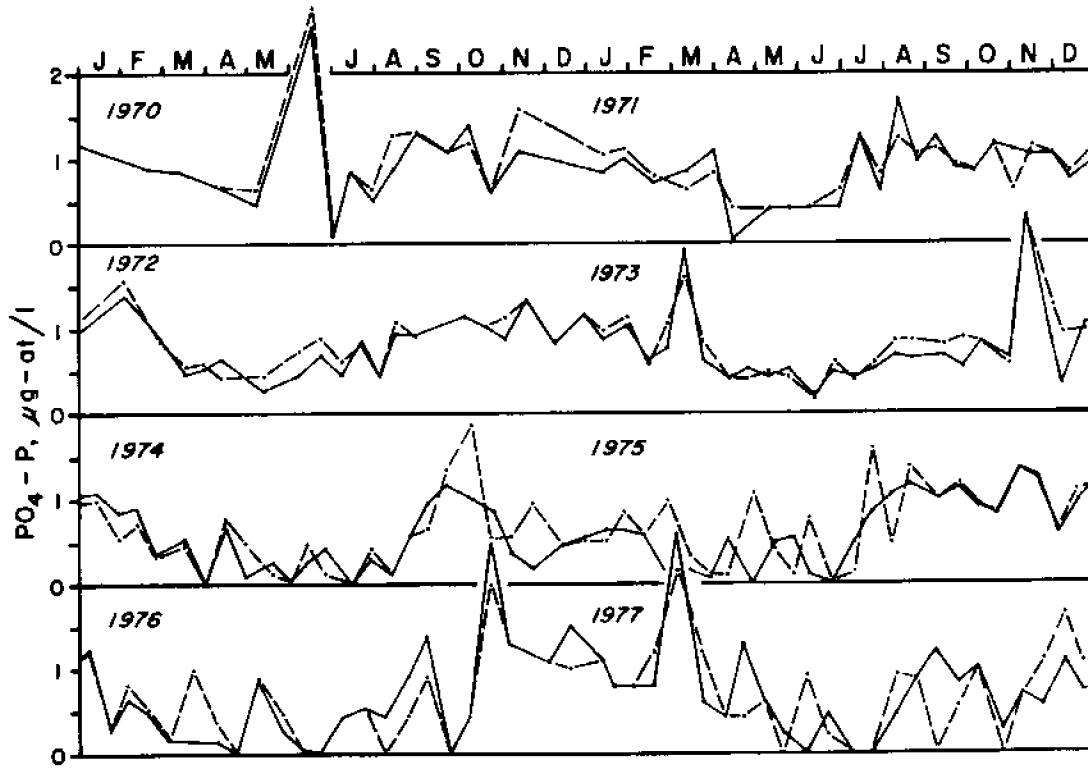


Figure 9

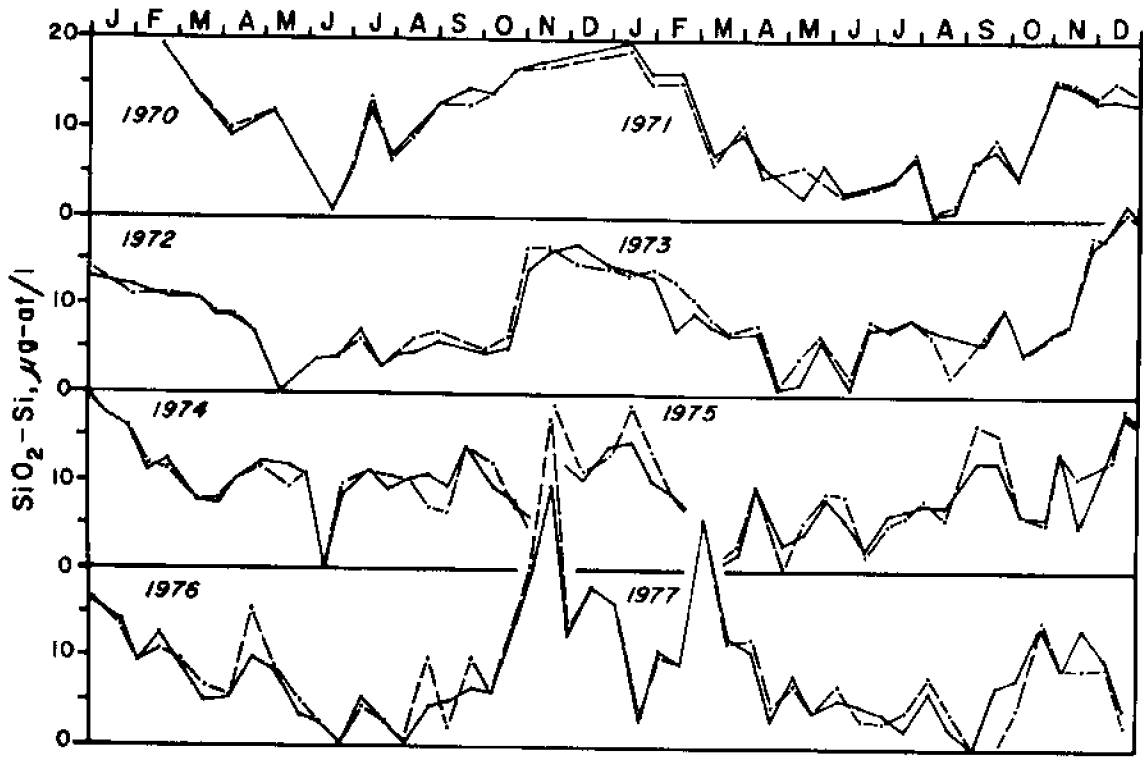


Figure 10

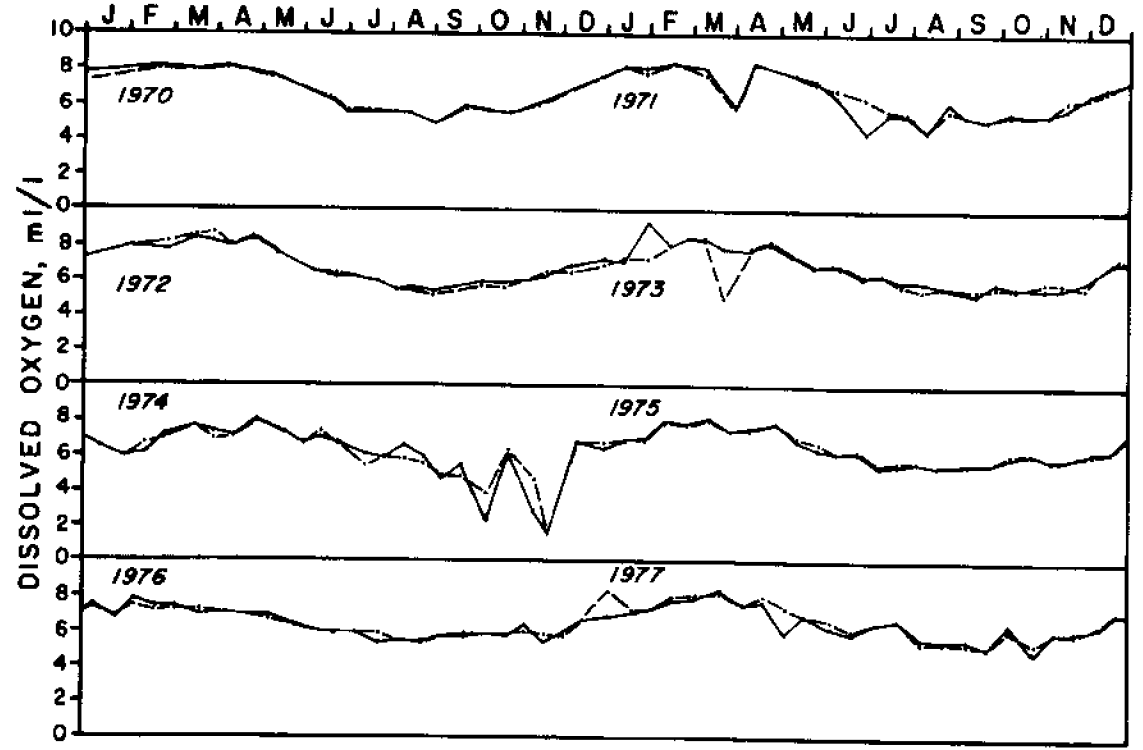


Figure 11

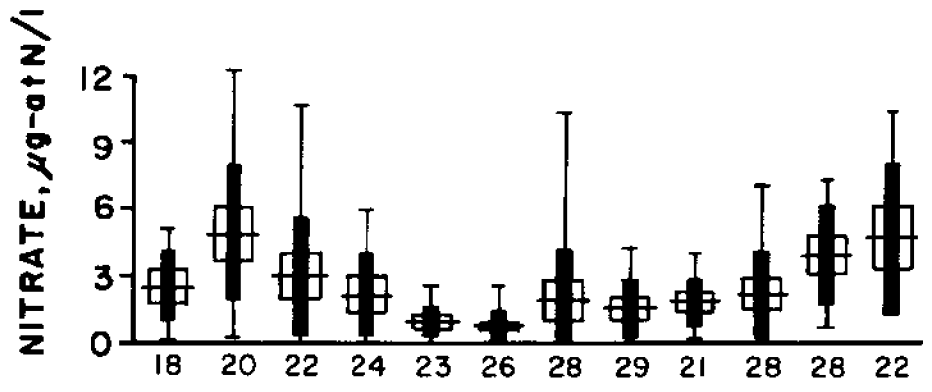
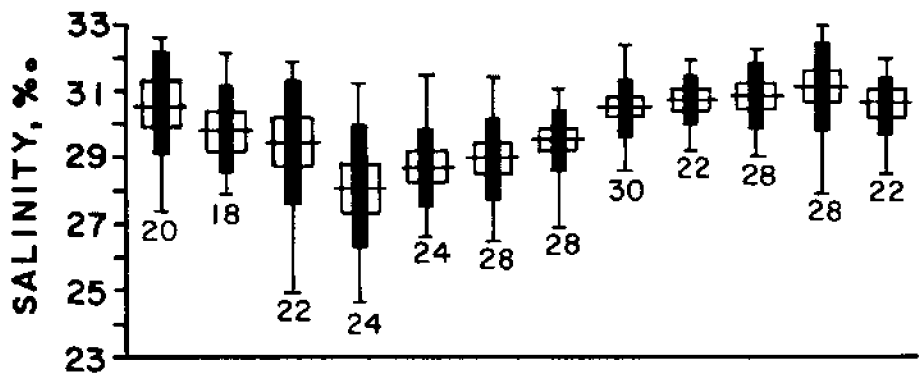
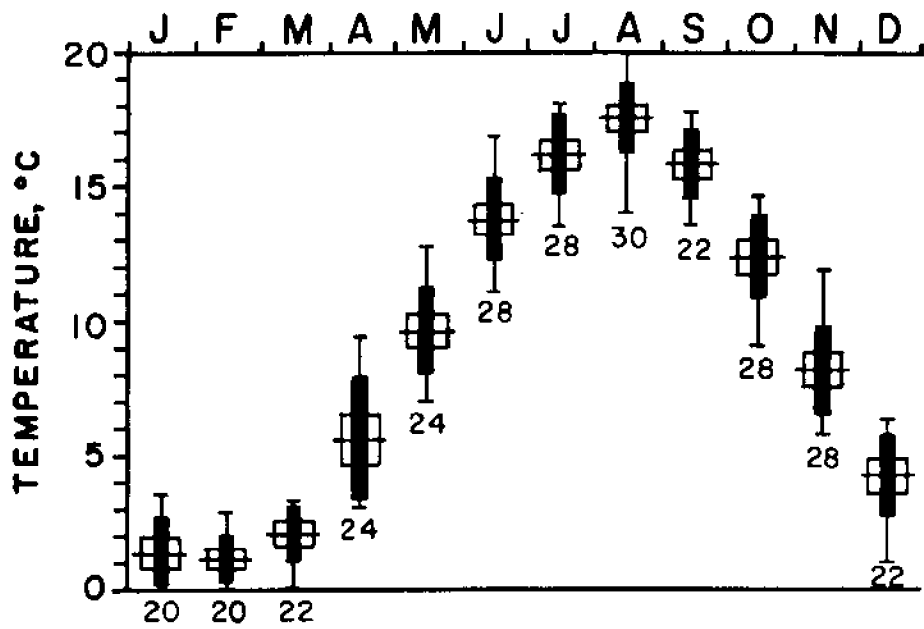


Figure 12

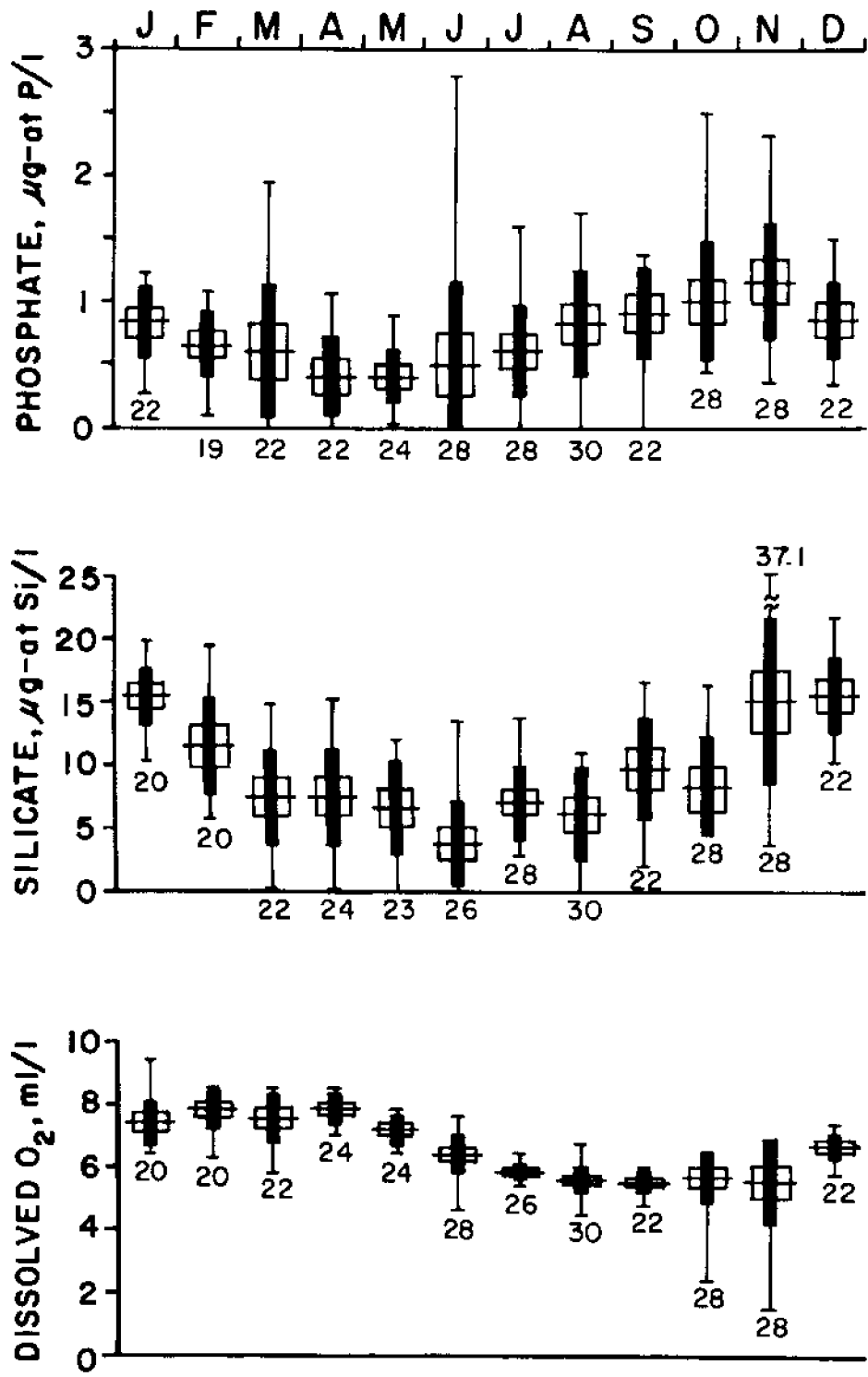


Figure 13

## HYDROGRAPHIC AND NUTRIENT DATA

All times are Eastern Standard Time

H.W. and L.W. are the times of high and low waters at Portland, Maine, from the U.S. Department of Commerce Tide Tables.

T: temperature, °C

S: salinity, ‰

O<sub>2</sub>: dissolved oxygen, ml/l

PO<sub>4</sub>: phosphorus present as reactive phosphate, µg at P/l

NO<sub>3</sub>: nitrogen present as reactive nitrate, µg at N/l

NO<sub>2</sub>: nitrogen present as reactive nitrite, µg at N/l

NH<sub>3</sub>: nitrogen present as ammonia, µg at N/l

Urea: nitrogen present as urea, µg at N/l

SiO<sub>2</sub>: silicon present as reactive silicate, µg at Si/l

k: extinction coefficient, per meter

\*: temperature by hand-held thermometer, salinity by hydrometer

†: salinity calculated from temperature and conductivity data

#: salinity measured on laboratory salinometer

Station suffixes E and W indicate that observations were made near the east and west shores of the estuary.

Table 1. Summary of data included in this report. T, temperature and salinity; O, dissolved oxygen; P, phosphate; N<sub>3</sub>, nitrate; N<sub>2</sub>, nitrite; A, ammonia; U, urea; Si, silicate; k, extinction coefficient.

Station	Months	VARIABLES									
		T	O	P	N <sub>3</sub>	N <sub>2</sub>	A	U	Si	k	
P6	6/69-5/70	X	X	X	X				X	X	
D1, P5	10/67, 6/68-8/68, 12/70, 3/71-4/71 6/69-5/70	X	X	X	X				X	X	
D2	10/67, 6/68-8/68, 6/69-9/69, 10/70, 12/70, 3/71-4/71 7/69-8/69	X									
D3, P4	10/67, 6/68-8/68, 6/69, 10/70, 12/70, 3/71-4/71 7/69-12/69, 2/70-3/70, 5/70	X	X	X	X				X	X	
D4	10/67, 6/68-8/68, 6/69-9/69, 10/70, 12/70, 3/71-4/71	X									
D5, P3	10/67, 6/68-8/68, 6/69-3/70, 5/70, 10/70, 12/70, 3/71-4/71 7/69-3/70, 5/70	X	X	X	X				X	X	
D6, P2	10/67, 6/68-8/68, 6/69-3/70, 5/70, 10/70, 12/70, 3/71-4/71 7/69-3/70, 5/70	X	X	X	X				X	X	
D7, P1	10/67, 6/68-8/68 6/69-10/74 10/74-12/77 1/75-10/76	X	X	X	X	X	X	X	X	X	
D8	6/68-8/68, 6/69-9/69 8/69	X	X								
D9	7/68-8/68, 6/69-9/69	X									
D10	7/68-8/68, 6/69-9/69 7/69	X	X								

Date 3-X-67  
 H.W. 1006 2330  
 L.W. 0354 1618

Station	Time	Depth	Temp.	Sal.
D1		0.5	17.26	24.11
		3.0	16.09	29.45
D2		0.5	15.45	29.45
		3.0	14.83	29.78
D3		0.5	14.68	30.07
		3.0	14.50	30.22
D4		0.5	14.42	30.22
		3.0	14.29	30.31
		5.0	14.13	30.35
		10.0	13.98	30.42
D5		0.5	14.30	30.42
		3.0	14.24	30.42
		5.0	14.17	30.43
		10.0	13.98	30.33
D6		0.5	13.40	30.43
		3.0	12.86	30.55
		5.0	12.75	30.60
		10.0	12.59	30.63
D7		0.5	13.11	30.70
		3.0	12.32	30.70
		5.0	11.98	30.71
		10.0	11.67	30.73
D7A	1000	0.5	10.11	30.36
		3.0	10.07	30.46
		5.0	10.07	30.63
		7.0	9.90	30.65
		9.0	9.71	30.99
		11.0	9.53	31.02
		15.0	9.44	31.77

Date 19-VI-68  
 H.W. 0606 1836  
 L.W. 0000 1218

D1	1400	0.5	18.78	22.11
		3.0	19.50	23.74
D2	1410	0.5	17.19	26.32
		3.0	17.00	26.63
		3.5	16.42	26.74
D3	1420	0.5	16.56	27.30
		3.0	15.76	27.30
		4.0	15.48	27.89

Station	Time	Depth	Temp.	Sal.		
D4	1430	0.5	15.96	28.18		
		3.0	14.64	28.68		
		6.0	14.25	28.85		
		9.0	14.31	28.85		
D5	1445	0.5	14.58	28.74		
		3.0	14.29	29.14		
		6.0	14.15	29.07		
		9.0	14.12	29.26		
		12.0	14.13	29.25		
		D6	1500	0.5	13.91	19.41
				3.0	14.01	29.30
6.0	13.39			29.43		
9.0	13.40			29.58		
		12.0	12.95	29.68		
D7	1520	0.5	13.91	29.61		
		3.0	13.75	29.72		
		6.0	12.71	29.72		
		9.0	12.25	30.12		
		12.0	11.80	30.12		

Date 25-VI-68  
 H.W. 1054 2254  
 L.W. 0448 1642

D1	1000	0.5	18.00	24.97
		3.0	16.33	26.97
D2	1010	0.5	16.65	27.45
		3.0	15.39	28.26
		4.0	14.82	28.54
D3	1020	0.5	15.55	28.20
		3.0	14.12	28.87
		4.0	13.78	28.98
D4	1030	0.5	14.43	28.94
		3.0	14.02	28.85
		6.0	13.68	29.12
		9.0	13.55	29.14
D5	1045	0.5	13.85	29.14
		3.0	13.66	29.07
		6.0	13.60	29.00
		9.0	13.10	29.16
		12.0	12.82	29.30
D6	1055	0.5	13.30	29.47
		3.0	12.17	29.55
		6.0	12.04	29.80
		9.0	11.90	29.72

Station	Time	Depth	Temp.	Sal.
D7	1105	0.5	13.06	29.32
		3.0	12.13	29.62
		6.0	11.65	29.84
		9.0	11.25	30.05
		12.0	11.12	30.30
D8	1120	0.5	11.39	29.80
		3.0	11.14	30.08
		6.0	11.00	30.12
		9.0	10.78	30.17
		12.0	10.66	30.20
		18.0	10.47	30.24
		23.0	9.96	30.34

Date 2-VII-68  
H.W. 0300 1536  
L.W. 0918 2142

D1	0.5	20.50	22.84
	3.0	20.44	22.86
D1A	0.5	19.75	23.94
	3.0	18.30	26.00
D2	0.5	18.48	26.59
	3.0	17.95	26.61
	4.5	17.37	26.97
D3	0.5	16.71	27.27
	3.0	15.90	29.03
	4.0	15.42	29.07
D4	0.5	18.16	26.57
	3.0	15.59	28.52
	6.0	15.35	28.53
	9.0	15.18	28.92
D5	0.5	17.86	26.96
	3.0	16.67	27.68
	6.0	15.02	28.82
	9.0	14.76	28.94
D6	12.0	14.47	29.04
	0.5	15.39	28.74
	3.0	15.44	28.77
	6.0	14.91	29.11
D7	9.0	14.59	29.11
	12.0	14.63	29.07
	0.5	14.52	29.07
	3.0	14.37	29.08
D7E	6.0	14.08	29.46
	9.0	13.29	29.81
	12.0	12.68	29.84
	0.5	15.77	29.18
D7E	3.0	14.34	29.30

Station	Time	Depth	Temp.	Sal.
D7W		0.5	14.38	29.30
		3.0	13.71	29.38
D8		0.5	12.61	29.97
		3.0	13.30	29.73
		6.0	13.30	29.87
		9.0	12.85	30.07
		12.0	12.84	30.04
D8W		18.0	12.34	30.04
		23.0	9.96	30.34
		0.5	13.86	29.87
D8W		3.0	13.41	29.94
		0.5	13.33	29.92
D8E		3.0	12.94	29.92

Date 5-VII-68  
H.W. 0554 1818  
L.W. 1200

D1	1155	0.5	21.12	22.66
		3.0	20.24	23.40
D2	1215	0.5	19.90	26.12
		3.0	19.02	26.39
		5.5	18.04	27.37
D3	1225	0.5	19.48	26.32
		3.0	17.94	27.74
		3.5	17.40	27.98
D4	1235	0.5	19.49	26.80
		3.0	16.70	28.41
		6.0	16.30	28.81
		9.0	15.92	28.93
		12.0	15.68	29.16
D5	1245	14.0	15.40	29.20
		0.5	18.26	28.35
		3.0	17.10	28.52
		6.0	15.98	29.18
D6	1255	9.0	15.59	29.22
		12.0	15.71	29.25
		0.5	15.94	29.14
		3.0	15.54	29.38
D7	1312	6.0	15.37	29.30
		8.5	15.33	29.34
		0.5	15.62	29.30
		3.0	15.20	29.33
D7		6.0	14.55	29.58
		9.0	13.48	29.84
		12.0	12.88	30.02



Station	Time	Depth	Temp.	Sal.
D8	1330	0.5	13.82	30.20
		3.0	13.10	30.09
		6.0	12.86	30.46
		9.0	12.63	30.45
		12.0	12.52	30.36
		18.0	12.11	30.54

Date 8-VII-68  
H.W. 0900 2118  
L.W. 0248 1454

D1	1020	0.5	19.45	23.48
		3.0	17.12	27.96
		3.5	16.75	28.07
D2	1010	0.5	18.19	26.94
		3.0	16.30	28.38
		6.0	16.00	28.70
D3	1005	0.5	17.27	27.75
		3.0	16.03	28.60
		6.0	15.68	28.87
D4	0955	0.5	16.84	28.50
		3.0	16.08	28.76
		6.0	15.67	28.87
		9.0	15.64	28.92
D5	0929	0.5	14.89	29.28
		3.0	14.67	29.38
		6.0	14.66	29.60
D6	0920	0.5	14.40	29.75
		3.0	13.65	29.82
		6.0	13.65	29.91
		9.0	13.77	30.00
D7	0850	0.5	14.29	29.70
		3.0	13.43	29.80
		6.0	13.07	30.12
		9.0	13.04	30.20
		12.0	12.78	30.20
		18.0	12.21	30.36
D8	0835	0.5	12.98	29.80
		3.0	12.40	30.04
		6.0	12.47	30.23
		9.0	11.93	30.36
		12.0	11.68	30.43
		18.0	11.83	30.33
24.0	11.30	30.50		

Date 11-VII-68  
H.W. 1148  
L.W. 0536 1748

Station	Time	Depth	Temp.	Sal.
D1	1250	0.5	20.77	23.08
		3.0	18.53	27.77
		4.5	17.92	27.94
D2	1240	0.5	18.20	28.87
		3.0	17.24	28.47
		6.0	17.72	28.44
D3	1225	0.5	17.79	28.43
		3.0	16.58	28.75
		6.0	16.20	29.13
D4	1215	0.5	17.35	28.82
		3.0	16.43	28.98
		6.0	16.14	29.10
		9.0	16.08	29.11
D5	1150	0.5	15.18	29.74
		3.0	14.86	29.47
		6.0	-	-
D6	1140	0.5	14.68	29.96
		3.0	14.04	30.16
		6.0	13.83	30.14
		9.0	13.55	30.18
D7	1130	0.5	14.88	29.70
		3.0	13.71	30.00
		6.0	13.18	30.37
		9.0	12.92	30.41
		12.0	12.91	30.39
D8	1115	18.0	12.53	30.45
		0.5	12.40	29.93
		3.0	12.00	30.18
		6.0	11.56	30.43
		9.0	10.70	30.82
D1	1440	12.0	10.54	30.72
		18.0	10.50	30.70
		24.0	10.36	30.63
		0.5	22.09	23.01
		3.0	18.38	27.71
D2	1435	5.0	17.46	28.26
		0.5	19.45	28.06
		3.0	17.68	28.53
D2	1435	6.0	16.78	28.96

Date 12-VII-68  
H.W. 0000 1242  
L.W. 0630 1836

D1	1440	0.5	22.09	23.01
		3.0	18.38	27.71
		5.0	17.46	28.26
D2	1435	0.5	19.45	28.06
		3.0	17.68	28.53
		6.0	16.78	28.96

Station	Time	Depth	Temp.	Sal.
D3	1425	0.5	18.75	28.51
		3.0	16.39	29.19
		5.5	16.34	29.18
D4	1420	0.5	17.89	29.21
		3.0	16.38	29.29
		6.0	16.08	29.31
D5	1405	0.5	16.25	29.32
		3.0	16.17	29.35
		6.0	15.42	29.65
D6	1355	0.5	14.78	30.12
		3.0	13.97	30.14
		6.0	13.74	30.24
		9.0	13.68	30.24
D7	1320	0.5	15.29	30.12
		3.0	15.94	30.43
		6.0	13.25	30.64
		9.0	12.24	30.80
		12.0	12.25	30.65
D8	1300	0.5	12.13	30.45
		3.0	11.93	30.79
		6.0	12.00	30.64
		9.0	11.87	30.64
		12.0	11.78	30.77
18.0	11.53	30.77		

Date 13-VII-68  
H.W. 0236 1512  
L.W. 0854 2118

D1	0848	0.5	22.14	20.70
		2.5	22.12	20.70
D2	0837	0.5	21.12	23.28
		3.0	20.51	24.51
D3	0829	0.5	19.68	26.51
		3.0	18.64	27.52
D4	0816	0.5	18.78	27.45
		3.0	17.74	28.54
		6.0	16.61	29.20
D5	0802	0.5	17.21	28.46
		3.0	17.10	28.74
		6.0	16.68	29.10
		9.0	16.49	29.24

Station	Time	Depth	Temp.	Sal.
D6	0750	0.5	16.74	29.40
		3.0	16.58	29.38
		6.0	16.08	29.44
		9.0	16.00	29.56
		12.0	15.89	29.63
D7	0735	0.5	15.78	29.74
		3.0	15.71	29.67
		6.0	15.54	29.71
		9.0	14.93	29.88
		12.0	14.64	30.11
D8	0710	0.5	13.88	30.31
		3.0	15.50	29.56
		6.0	14.72	30.00
		9.0	13.79	30.35
		12.0	13.68	30.12
18.0	13.24	30.45		
			12.61	30.64

Date 15-VII-68  
H.W. 0236 1512  
L.W. 0854 2118

D1	1015	0.5	23.21	20.70
		3.0	23.20	20.72
D2	1005	0.5	21.94	24.74
		3.0	21.11	26.24
D3	0950	0.5	20.06	27.10
		3.0	19.30	27.58
D4	0935	0.5	19.20	27.44
		3.0	18.00	28.61
		6.0	17.32	29.02
		9.0	16.29	29.44
D5	0925	0.5	20.06	27.24
		3.0	18.67	28.47
		6.0	16.87	29.12
		9.0	16.60	29.37
D6	0910	0.5	17.37	28.80
		3.0	17.21	29.18
		6.0	16.76	29.41
D7	0900	0.5	16.65	29.44
		3.0	16.60	29.42
		6.0	16.54	29.63
		9.0	14.73	30.10
		12.0	14.13	30.38

Station	Time	Depth	Temp.	Sal.
D8	0840	0.5	14.12	30.46
		3.0	14.06	30.26
		6.0	14.06	30.11
		9.0	14.06	30.82
		12.0	13.85	30.83
		16.0	12.82	30.82

Date 23-VII-68  
H.W. 0948 2148  
L.W. 0342 1536

Station	Time	Depth	Temp.	Sal.
D1	1005	0.5	22.67	28.16
		3.0	21.57	28.31
		4.5	21.30	28.43
D2	0955	0.5	20.47	29.11
		3.0	20.04	29.10
		6.0	18.90	29.43
D3	0950	0.5	20.10	29.14
		3.0	18.27	29.96
		5.5	17.66	29.95
D4	0940	0.5	20.05	29.54
		3.0	17.96	29.60
		6.0	17.67	29.96
		9.0	17.55	29.97
D5	0932	0.5	18.50	29.50
		3.0	18.20	29.67
		6.0	18.05	29.82
		9.0	17.60	29.90
		12.0	17.16	29.98
D6	0925	0.5	16.42	29.90
		3.0	16.16	30.16
		6.0	15.90	30.16
		9.0	15.63	30.30
		D7	0905	0.5
3.0	15.98			30.13
6.0	15.23			30.28
9.0	14.75			30.28
12.0	14.42			30.46
D8	0850	0.5	15.21	30.36
		3.0	14.42	30.35
		6.0	14.15	30.48
		9.0	13.86	30.45
		12.0	13.83	30.62
D9	0840	0.5	13.78	30.77
		3.0	13.46	30.73
		6.0	13.43	30.85
		9.0	13.30	30.97
		12.0	13.10	31.03

Date 16-VII-68  
H.W. 0330 1606  
L.W. 0948 2218

D1	1000	0.5	23.40	22.10
		2.5	23.15	22.30
D2	0940	0.5	21.80	25.42
		3.0	20.33	27.00
		5.0	20.16	27.55
D3	0925	0.5	20.29	27.11
		3.0	18.74	28.24
D4	0917	0.5	18.76	27.48
		3.0	17.93	28.70
		6.0	17.66	28.80
D5	0905	0.5	19.17	28.07
		3.0	18.97	28.65
		6.0	18.40	28.55
		9.0	17.60	29.01
D6	0850	0.5	17.05	29.37
		3.0	16.93	29.22
		6.0	16.86	29.39
		9.0	16.80	29.37
D7	0845	0.5	15.90	29.74
		3.0	15.64	29.82
		6.0	15.71	29.99
		9.0	16.00	29.58
		12.0	15.32	29.64
		17.0	14.27	30.05
D8	0832	0.5	15.67	29.30
		3.0	15.24	29.87
		6.0	14.27	29.90
		9.0	13.94	29.99
		12.0	13.83	30.63
		18.0	13.52	30.30

Station	Time	Depth	Temp.	Sal.
D10	0810	0.5	13.98	30.00
		3.0	13.58	30.77
		6.0	12.97	30.77
		9.0	12.28	30.97
		12.0	11.00	31.23
		18.0	10.80	31.15

Date 29-VII-68  
H.W. 0106 1336  
L.W. 0724 1936

D1	0830	0.5	21.91	28.36
		3.0	21.78	28.36
D2	0837	0.5	21.00	29.02
		3.0	20.76	29.05
D3	0842	0.5	20.14	29.73
		3.0	19.30	29.69
D4	0850	0.5	20.07	29.67
		3.0	18.45	29.93
		6.0	18.21	30.04
		9.0	17.57	30.34
		12.0	17.40	30.26
D5	0900	0.5	18.98	30.20
		3.0	18.36	30.20
		6.0	17.99	30.40
		9.0	17.84	30.25
D6	0917	12.0	17.57	30.30
		0.5	17.32	30.35
		3.0	17.09	30.49
		6.0	17.00	30.30
		9.0	17.00	30.43
D7	0925	12.0	16.97	30.41
		0.5	15.91	30.69
		3.0	15.88	30.69
		6.0	15.68	30.70
		9.0	15.02	30.72
		12.0	14.81	30.68
D8	0940	18.0	14.73	30.77
		0.5	14.68	30.52
		3.0	14.37	30.62
		6.0	14.05	30.93
		9.0	13.93	30.79
		12.0	13.90	30.83
		18.0	13.73	30.84

Date 29-VII-68  
H.W. 0106 1336  
L.W. 0724 1936

Station	Time	Depth	Temp.	Sal.
D1	1425	0.5	21.15	29.57
		3.0	20.37	29.57
		5.0	19.96	29.72
D2	1415	0.5	18.82	30.29
		3.0	18.27	30.06
		6.0	17.71	30.14
D3	1410	0.5	19.81	30.09
		3.0	18.97	30.13
		6.0	17.68	30.06
D4	1400	0.5	18.21	30.27
		3.0	17.77	30.39
		6.0	17.69	30.53
D5	1350	0.5	17.87	30.09
		3.0	17.84	30.17
		6.0	17.56	30.25
		9.0	17.09	30.41
D6	1338	12.0	16.74	30.45
		0.5	16.12	30.45
		3.0	15.77	30.58
D7	1327	6.0	15.67	30.68
		9.0	15.57	30.70
		0.5	16.37	30.62
D8	1311	3.0	15.25	30.79
		6.0	14.87	30.74
		9.0	14.71	30.90
		12.0	14.61	30.81
		18.0	14.27	30.94
D9	1300	0.5	14.11	30.96
		3.0	13.71	31.03
		6.0	13.43	31.20
		9.0	13.25	31.06
		12.0	13.09	31.13
D10	1250	18.0	12.78	31.14
		0.5	12.70	31.09
		3.0	12.46	31.44
		6.0	11.31	31.30
		9.0	10.42	31.03
		12.0	10.37	31.24
		18.0	9.82	31.04
		0.5	12.22	30.01
		3.0	11.26	30.66
		6.0	11.56	30.66
		9.0	10.13	30.96
		12.0	9.39	30.74
		18.0	9.33	31.14

Date 30-VII-68  
 H.W. 0148 1418  
 L.W. 0806 2024

Date 3-VIII-68  
 H.W. 0536 1800  
 L.W. 1136

Station	Time	Depth	Temp.	Sal.
D1	0819	0.5	21.25	28.62
		2.2	21.19	28.61
D2	0829	0.5	20.42	29.34
		3.0	20.33	29.27
D3	0840	0.5	19.86	29.72
		3.0	18.97	29.96
D4	0850	0.5	19.00	30.01
		3.0	18.72	30.10
		6.0	18.54	30.11
D5	0859	0.5	18.29	30.37
		3.0	17.97	30.38
		6.0	17.78	30.48
		9.0	17.61	30.25
		12.0	17.51	30.44
D6	0913	0.5	17.59	30.17
		3.0	17.59	30.25
D7	0926	0.5	16.87	30.51
		3.0	16.57	30.42
		6.0	15.79	30.45
		9.0	15.45	30.59
		12.0	14.87	30.64
D8	0942	0.5	15.34	30.79
		3.0	14.53	30.86
		6.0	13.56	30.77
		9.0	13.83	30.83
		12.0	13.59	31.02
D9	0955	0.5	13.37	31.10
		3.0	13.13	31.12
		6.0	12.97	30.97
		9.0	13.02	31.04
		12.0	12.97	31.00
		18.0	12.92	31.14
D10	1007	0.5	12.30	31.10
		3.0	12.12	31.12
		6.0	11.62	31.16
		9.0	11.24	31.29
		12.0	11.04	31.28
		18.0	11.04	31.29

Station	Time	Depth.	Temp.	Sal.
D1	1026	0.5	17.07	32.58
		3.0	15.56	33.62
D2	1036	0.5	22.34	29.02
		3.0	21.02	29.59
		6.0	20.82	29.81
D3	1048	0.5	20.53	29.82
		3.0	19.70	30.03
D4	1058	0.5	20.32	30.14
		3.0	19.14	30.42
		6.0	18.16	30.32
		9.0	18.15	30.30
D5	1110	12.0	17.87	30.52
		0.5	19.52	30.13
		3.0	18.46	30.38
		6.0	18.24	30.34
		9.0	17.88	30.52
D6	1126	12.0	17.72	30.52
		18.0	17.20	30.46
		21.0	17.04	30.50
		0.5	17.92	30.56
		3.0	17.70	30.64
D7	1144	6.0	17.54	30.60
		9.0	17.16	30.54
		12.0	17.34	30.68
		0.5	17.04	30.20
D8	1201	3.0	16.78	30.55
		6.0	16.56	30.90
		9.0	16.12	30.81
		12.0	15.18	30.91
		18.0	14.27	31.14
D9	1216	0.5	16.54	30.95
		3.0	15.50	30.83
		6.0	15.01	30.88
		9.0	14.31	30.96
		12.0	14.04	30.92
D9	1216	18.0	13.52	31.09
		24.0	13.17	31.23
		0.5	13.92	30.02
		3.0	13.88	31.12
		6.0	13.68	31.19
		9.0	13.67	31.25
D9	1216	12.0	13.62	31.17
		18.0	13.69	31.28
		24.0	13.61	31.21

Station	Time	Depth	Temp.	Sal.	Station	Time	Depth	Temp.	Sal.		
D10	1229	0.5	13.96	30.67	D6W	1038	0.5	16.88	30.99		
		3.0	13.79	30.96			3.0	16.64	30.94		
		6.0	13.76	31.10			6.0	16.10	30.97		
		9.0	13.69	31.13			9.0	15.97	30.97		
		12.0	13.58	31.10			12.0	15.76	31.11		
		16.0	13.49	31.22	D6	1031	0.5	16.22	30.71		
				3.0			15.76	30.76			
				6.0			15.72	30.87			
Date 7-VIII-68	H.W. 0954 2206	L.W. 0342 1548			D7W	1020	0.5	17.64	30.41		
							3.0	16.13	30.33		
							6.0	15.59	30.49		
D1	1152	0.5	21.80	30.60	D7	1001	0.5	17.12	30.92		
		3.0	20.46	30.21			3.0	15.82	30.99		
		5.0	20.19	30.20			6.0	15.34	31.00		
D2	1143	0.5	19.71	30.67			9.0	14.96	31.19		
		3.0	18.01	31.01			12.0	14.77	31.32		
		6.0	17.27	31.30			18.0	14.54	31.28		
D3	1130	0.5	19.42	30.61			24.0	14.32	31.22		
		3.0	17.92	30.73			D7E	0950	0.5	15.59	30.60
		5.5	17.76	30.80					3.0	15.32	29.97
D3E	1126	0.5	19.73	30.49	6.0	14.79			31.03		
		3.0	18.20	30.72	D8W	0928	0.5	14.12	30.98		
D4	1114	0.5	19.25	30.60			3.0	13.22	31.39		
		3.0	17.87	30.54			6.0	13.12	31.39		
		6.0	17.60	30.72			9.0	13.12	31.41		
		9.0	17.44	30.78	12.0	12.92	31.41				
		12.0	17.59	30.83	D8	0934	0.5	13.96	31.40		
D4E	1120	0.5	18.20	30.77			3.0	13.76	31.37		
		3.0	17.63	30.78			6.0	13.71	31.29		
		6.0	17.30	30.83			9.0	13.53	31.41		
D5W	1050	0.5	18.16	30.69	12.0	13.74	31.38				
		3.0	17.46	30.74	18.0	13.60	31.31				
		6.0	17.17	30.87	24.0	13.06	31.39				
		9.0	17.17	30.91	D8E	0943	0.5	14.31	31.06		
		12.0	17.24	30.87			3.0	13.92	31.28		
17.0	16.85	30.88	6.0	13.81			31.31				
D5	1058	0.5	17.85	30.81	9.0	13.98	31.40				
		3.0	17.72	30.81	D9W	0915	0.5	13.54	31.38		
		6.0	17.53	30.66			3.0	13.24	31.48		
		9.0	17.37	30.66			6.0	13.28	31.44		
				12.0	17.31	30.79	D9	0900	0.5	13.25	31.47
D5E	1105	0.5	17.52	30.66	3.0	12.83			31.44		
		3.0	17.50	30.81	6.0	12.57			31.41		
		6.0	17.48	30.91	9.0	12.40			31.37		
					12.0	12.49			31.52		
				18.0	12.18	31.53					
				24.0	11.41	31.49					

Station	Time	Depth	Temp.	Sal.	Station	Time	Depth	Temp.	Sal.												
D9E	0850	0.5	13.16	31.06	D5W	1100	0.5	18.09	31.24												
		3.0	12.58	31.20			3.0	18.04	31.23												
		6.0	12.59	31.36			6.0	18.14	31.26												
		9.0	12.12	31.47			9.0	17.92	31.29												
		12.0	11.80	31.50			12.0	17.84	31.34												
D10W	0815	18.0	11.37	31.48	D6	1045	0.5	16.42	31.41												
		0.5	14.21	31.58			3.0	17.21	31.62												
		3.0	13.60	31.53			6.0	17.07	31.42												
		6.0	12.80	31.48	D6W	1052	0.5	17.53	31.48												
		9.0	12.37	31.56			3.0	17.31	31.46												
D10	0830	12.0	11.87	31.36	6.0	17.31	31.52														
		0.5	13.96	31.62	9.0	17.21	31.38														
		3.0	12.97	31.48	D7W	1013	0.5	16.72	31.69												
		6.0	11.49	31.57			3.0	16.56	31.62												
		9.0	11.22	31.57			6.0	16.30	31.64												
D10E	0835	12.0	10.80	31.76	D7	1000	0.5	17.01	31.49												
		0.5	12.97	31.10			3.0	16.94	31.44												
		3.0	12.24	31.52			6.0	16.25	31.36												
		6.0	12.04	31.66			9.0	16.02	31.41												
		9.0	11.87	31.71			12.0	15.44	31.69												
Date 15-VIII-68	H.W. 0342 1606	L.W. 0948 2230																			
										D1	1211	18.0	11.55	31.75	D7E	1017	0.5	16.51	31.70		
												0.5	22.03	30.31			3.0	16.13	31.59		
												3.0	21.93	30.30			D8E	0936	0.5	14.49	31.37
												6.0	19.38	30.99					3.0	14.55	32.02
9.0	19.38	30.99	6.0	14.68	32.12																
D2	1157	0.5	21.16	30.76	9.0	14.54	32.04	D8	0926	0.5	14.37	31.30									
		3.0	20.56	30.82	3.0	14.33	32.12														
		6.0	19.38	30.99	6.0	14.39	32.15														
D2E	1159	0.5	21.13	30.97	9.0	14.00	32.22	D8W	0915	0.5	14.33	31.93									
		D3E	1147	0.5	20.16	30.99	12.0			13.50	32.24	3.0	14.07	32.33							
												6.0	18.61	31.17	6.0	11.19	34.98				
D3	1127	0.5	19.77	31.27	9.0	10.84	35.24	D9E	0830	0.5	14.23	31.47									
		3.0	19.17	31.17	12.0	9.57	35.34			3.0	14.12	31.49									
D4W	1119	6.0	18.60	31.12	18.0	9.67	34.98	6.0	14.13	31.59											
		D4E	1130	0.5	19.15	31.32	16.0	13.89	31.64	9.0	14.02	31.53									
										3.0	18.06	31.24	12.0	14.01	31.62						
D4	1125	0.5	19.33	31.15	D5E	1111	0.5	18.46	31.31												
		3.0	18.06	31.24			3.0	18.33	31.23												
		6.0	17.60	31.27			6.0	18.01	31.17												
		9.0	17.88	31.29			9.0	17.88	31.29												





Station	Time	Depth	Temp.	Sal.	Station	Time	Depth	Temp.	Sal.							
D9W	0850	0.5	12.72	32.06	D3	1053	0.5	18.99	31.47							
		3.0	12.27	32.14			3.0	17.88	31.20							
		6.0	12.21	32.01			D3E	1100	0.5	18.75	31.50					
		9.0	12.07	32.10					D3W	1047	0.5	18.77	31.24			
		12.0	12.03	32.00							D4W	1109	0.5	17.61	31.63	
18.0	11.93	32.07	D4	1115	0.5	17.82	31.91									
D9	0840	0.5			12.56	31.90	3.0	17.65	31.70							
		3.0			12.51	32.00	6.0	17.12	31.82							
		6.0			12.31	31.99	9.0	17.17	31.83							
		9.0			12.25	31.91	12.0	16.97	31.74							
		12.0	12.20	32.01	D4E	1123	0.5	18.77	31.20							
18.0	11.93	31.91	DSW	1130			0.5	17.35	31.82							
24.0	11.35	32.02					3.0	17.33	31.67							
D9E	0830	0.5					12.77	32.11	6.0	17.37	31.74					
		3.0					12.67	32.08	9.0	17.36	31.68					
		6.0			12.54	32.01	12.0	17.30	31.60							
		9.0	12.47	32.04	D5	1140	0.5	16.30	31.92							
		12.0	12.00	32.04			3.0	15.71	32.58							
18.0	11.32	32.02	6.0	15.71			32.59									
23.0	10.97	32.08	9.0	15.50			32.78									
D10E	0820	0.5	12.59	32.03			12.0	15.74	32.68							
		3.0	12.23	31.86	18.0	15.84	32.64									
		6.0	11.52	32.02	D5E	1151	0.5	16.37	32.29							
		9.0	11.16	32.06			3.0	16.57	32.17							
		12.0	10.88	32.03			D6	1202	0.5	15.81	31.90					
D10	0810	0.5	12.87	31.97					3.0	15.71	31.92					
		3.0	12.77	31.98					6.0	15.71	31.86					
		6.0	12.50	32.07	9.0	15.34			31.93							
		D10W	0800	0.5	13.25	31.60			12.0	15.42	31.98					
				3.0	12.61	31.91	D6W	1210	0.5	15.84	31.48					
6.0	12.85			31.93	3.0	15.56			31.72							
9.0	12.61			31.93	6.0	15.38			31.71							
12.0	11.66			31.84	D7E	1220			0.5	15.16	31.86					
18.0	10.49	32.04	3.0	15.12					31.86							
Date 27-VIII-68	H.W. 0042 1306	L.W. 0654 1918	D1	0937			0.5	20.66	31.30	6.0	14.94	31.86				
							3.0	20.81	31.16	D7	1226	0.5	15.30	31.73		
							D1E	1016	0.5			21.43	30.48	3.0	14.93	31.92
					D2	1030			0.5			19.51	30.29	6.0	14.70	31.90
									3.0			18.86	31.62	9.0	15.02	31.90
6.0	18.23	32.02	12.0	14.80					31.90							
D2E	1037	0.5	20.00	31.37					18.0	14.41	32.04					
		D7W	1237	0.5			15.50	31.85								
				3.0	15.48	31.83										
				6.0	14.97	31.87										

Station	Time	Depth	Temp.	Sal.
D8E	1251	0.5	13.38	31.89
		3.0	13.28	31.82
		6.0	13.48	31.83
		9.0	13.33	31.79
		12.0	13.30	31.84
D8	1259	0.5	13.31	31.92
		3.0	13.30	31.95
		6.0	13.35	32.06
		9.0	13.19	32.16
		12.0	13.32	31.99
		18.0	13.29	32.07
D8W	1307	0.5	13.48	31.97
		3.0	13.39	32.06
		6.0	13.30	32.03
		9.0	13.07	32.17
		12.0	12.90	32.12
D9E	1320	0.5	13.02	32.16
		3.0	12.78	32.00
		6.0	12.41	32.10
		9.0	12.50	31.90
		12.0	12.38	32.18
		18.0	12.01	32.22
D9	1230	0.5	13.08	32.03
		3.0	12.61	32.09
		6.0	12.33	32.12
		9.0	12.10	31.98
		12.0	12.00	32.03
D9W	1338	0.5	12.80	32.10
		3.0	12.30	32.20
		6.0	12.22	32.00
		9.0	12.14	32.22
D10W	1338	0.5	13.18	31.91
		3.0	12.96	31.94
		6.0	12.64	32.00
		9.0	12.54	32.08
		12.0	12.24	32.08
		18.0	11.47	32.07
D10	1350	0.5	13.01	32.22
		3.0	12.79	32.04
		6.0	12.46	31.91
		9.0	11.95	32.09
D10E	1401	0.5	12.62	32.20
		3.0	12.51	32.11
		6.0	11.97	32.17
		9.0	11.88	32.22
		12.0	11.57	31.97

Date 29-VIII-68  
H.W. 0218 1436  
L.W. 0824 2100

Station	Time	Depth	Temp.	Sal.
D4E	1038	0.5	17.45	31.82
		3.0	16.72	31.80
		6.0	16.55	31.85
D4W	1044	0.5	17.12	31.82
D5	1027	0.5	17.01	31.71
		3.0	16.83	31.77
		6.0	16.81	31.71
		9.0	16.82	31.56
D5E	1030	0.5	17.31	31.90
		3.0	16.74	31.82
D6	1006	0.5	16.43	31.80
		3.0	16.36	31.67
D6W	1012	0.5	16.47	31.52
		3.0	16.34	31.76
		6.0	16.27	31.66
D7	0955	0.5	16.10	32.01
		3.0	16.15	31.79
		6.0	15.93	31.87
		9.0	15.68	31.77
		12.0	15.54	31.90
D7E	0950	0.5	16.00	31.78
		3.0	15.78	31.78
D8W	0917	0.5	14.53	32.12
		3.0	14.29	32.06
		6.0	14.29	32.05
		9.0	14.21	32.07
		12.0	14.13	32.20
D8	0924	0.5	14.54	32.05
		3.0	14.48	32.04
		6.0	14.14	31.95
		9.0	14.11	32.02
		12.0	13.99	31.99
		18.0	13.53	32.00
D8E	0932	0.5	14.58	32.07
		3.0	14.34	32.14
		6.0	14.13	32.02
		9.0	13.80	31.92
D9E	0844	0.5	13.29	32.12
		3.0	13.33	32.17
		6.0	13.35	32.24
		9.0	13.20	32.25
		12.0	13.38	32.13

Station	Time	Depth	Temp.	Sal.
D9	0850	0.5	13.15	32.20
		3.0	13.10	32.17
		6.0	13.06	32.20
		9.0	13.19	32.16
		12.0	13.08	32.20
D9W	0859	0.5	13.03	32.13
		3.0	13.01	31.97
		6.0	12.92	32.19
		9.0	12.98	32.22
		12.0	12.94	32.29
D10W	0815	0.5	13.30	32.08
		3.0	13.39	32.20
		6.0	13.34	32.09
		9.0	13.32	32.12
		12.0	13.30	32.24

Station	Time	Depth	Temp.	Sal.
D10	0824	0.5	13.37	32.18
		3.0	13.17	32.17
		6.0	13.29	32.21
D10E	0828	0.5	13.24	32.02
		3.0	13.22	32.08
		6.0	13.21	32.07
		9.0	13.19	32.04
		12.0	13.21	32.04

Date 13-VI-69  
H.W. 1012 2212  
L.W. 0400 1600

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D1	0935	0.5	23.23	22.59					1.18
		3.0	20.07	27.48					
D2	1010	0.5	20.76	27.54					
		3.0	19.19	28.27					
		6.0	17.39	28.68					
D3	1035	0.5	19.13	27.99					0.63
		3.0	16.52	29.80					
		6.0	16.45	29.31					
D4	1110	0.5	19.08	27.75					
		3.0	17.58	28.93					
		6.0	17.21	29.07					
		9.0	16.33	29.24					
		12.0	16.70	29.38					
D5	1200	0.5	16.67	27.57					0.63
		3.0	15.66	29.52					
		6.0	15.78	29.52					
		9.0	15.72	29.52					
		12.0	15.48	29.49					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D6	1230	0.5	16.28	29.49					0.56
		3.0	15.54	29.42					
		6.0	14.96	29.68					
		9.0	14.44	29.87					
		12.0	14.15	30.06					
D7	1300	0.5	15.27	30.32					0.50
		3.0	14.16	29.97					
		6.0	13.43	30.20					
		9.0	13.08	30.33					
		12.0	13.22	30.27					
		18.0	12.68	30.30					

Date 15-VI-69  
H.W. 1130 2324  
L.W. 0524 1712

P6 0.5 22.0\* 8.1\* 4.80

Date 17-VI-69  
H.W. 0006 1242  
L.W. 0636 1830

D1	1207	0.5	19.13	22.88	4.62
		3.0	16.29	28.67	
		5.0	16.04	29.45	
D2	1157	0.5	18.13	28.27	
		3.0	16.63	29.56	
		6.0	15.84	30.09	
D3	1134	0.5	16.84	30.10	5.39
D4	1120	0.5	17.39	28.41	
		3.0	16.51	29.34	
		6.0	16.25	29.88	
		9.0	16.32	29.66	
D5	1100	0.5	17.74	28.62	5.36
		3.0	16.96	29.27	
		6.0	16.55	29.54	
		9.0	16.39	29.60	5.46
		12.0	16.29	29.66	
D6	1025	0.5	16.00	29.08	5.74
		3.0	15.35	30.03	
		6.0	14.81	29.91	
		9.0	14.62	29.82	

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0940	0.5	14.49	30.25	6.27				
		3.0	14.37	30.34					
		6.0	13.89	30.42	6.02				
		9.0	13.88	30.62					
		12.0	13.55	30.56					
		18.0	13.24	30.70					
D8	0910	0.5	14.24	30.57					
		3.0	13.38	30.56					
		6.0	13.08	30.61					
		9.0	12.73	30.67					
		12.0	12.41	30.78					
		17.0	12.27	30.69					
D9	1901	0.5	12.58	30.65					
		3.0	12.35	30.81					
		6.0	12.25	30.75					
		9.0	12.25	30.77					
		12.0	12.17	30.79					
		18.0	11.48	30.80					
D10	0850	0.5	11.16	30.85					
		3.0	11.17	30.98					
		6.0	10.56	31.09					
		9.0	10.52	30.98					
		12.0	10.42	31.13					

Date 23-VI-69  
H.W. 0430 1700  
L.W. 1042 2318

P5	1100	1.0				0.84	0.80	13.16	
P1	1150	1.0				0.53	0.72	7.14	

Date 26-VI-69  
H.W. 0718 1936  
L.W. 0112 1318

D1	0840	0.5	18.40	22.43					1.05
		3.0	16.76	27.69					
D2	0912	0.5	17.59	25.18					
		3.0	16.75	27.82					
		6.0	16.14	27.72					
		9.0	15.54	28.13					
D3	0920	0.5	16.96	27.02					0.86
		3.0	15.34	27.95					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D4	1000	0.5	16.30	27.18					
		3.0	16.01	27.58					
		6.0	15.52	27.82					
		9.0	15.55	28.07					
D5	1015	0.5	16.40	27.50					0.67
		3.0	15.22	27.97					
		6.0	15.04	27.92					
		9.0	15.10	28.33					
D6	1128	0.5	15.28	28.35					0.67
		3.0	15.28	28.40					
		6.0	15.32	28.34					
D7	1151	0.5	16.06	28.32					0.50
		3.0	14.30	28.50					
		6.0	13.72	28.80					
		9.0	13.75	28.92					
		12.0	13.66	28.81					
		16.0	13.70	29.00					
D8	1300	0.5	14.08	28.90					
		3.0	13.64	29.22					
		6.0	13.20	29.54					
		9.0	12.68	29.14					
		12.0	12.56	29.18					
		18.0	12.49	29.38					
D9	1320	0.5	13.04	29.58					
		3.0	12.96	29.50					
		6.0	12.96	29.58					
		9.0	12.84	29.51					
		12.0	12.82	29.47					
		18.0	12.90	29.52					
D10	1330	0.5	12.70	29.42					
		3.0	12.72	29.29					
		6.0	12.40	29.34					
		9.0	12.68	29.58					

Date 27-VI-69  
H.W. 0818 2030  
L.W. 0206 1412

D1	0845	0.5			5.39
D3	0910	0.5			5.39
D5	0920	0.5			5.46
		5.0			5.32
		9.0			5.60
D6	0950	0.5			5.67

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1004	0.5			5.57				
		5.0			5.67				
		15.0			5.74				

Date 28-VI-69  
H.W. 0912 2130  
L.W. 0306 1506

P6	1126	0.5	22.0*	10.0*	6.93				
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Date 2-VII-69  
H.W. 0012 1254  
L.W. 0642 1854

D1	0935	0.5	21.83	20.96					
		3.0	21.73	20.87					
D2	0925	0.5	20.49	24.31					
		3.0	19.94	25.50					
		6.0	18.83	26.78					
D3	0917	0.5	19.80	26.11					
		3.0	18.32	27.56					
D4	0907	0.5	18.71	27.51					
		3.0	18.41	27.54					
		6.0	18.40	27.64					
		9.0	18.30	27.69					
		12.0	18.27	27.79					
D5	0856	0.5	18.16	27.78					
		3.0	17.90	27.85					
		6.0	17.43	28.01					
		9.0	17.06	28.33					
		12.0	16.96	28.38					
		18.0	16.83	28.51					
		22.0	16.52	28.61					
D6	0844	0.5	17.00	28.46					
		3.0	16.84	28.41					
		6.0	16.77	28.57					
		9.0	16.67	28.53					
		12.0	16.54	28.55					
D7	0831	0.5	17.06	28.33					
		3.0	15.80	28.63					
		6.0	15.49	28.92					
		9.0	15.10	29.07					
		12.0	15.01	29.00					
		16.0	14.67	29.09					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D8	0812	0.5	14.98	29.10					
		3.0	14.52	29.11					
		6.0	14.11	29.17					
		9.0	13.99	29.21					
		12.0	13.67	29.43					
		18.0	13.60	29.43					
		24.0	13.24	29.50					
D9	0758	0.5	13.26	29.39					
		3.0	13.14	29.50					
		6.0	13.19	29.52					
		9.0	12.89	29.62					
		12.0	12.76	29.55					
		18.0	12.84	29.52					
		23.0	12.72	29.42					
D10	0740	0.5	13.67	29.04					
		3.0	13.76	29.39					
		6.0	13.60	29.51					
		9.0	13.41	29.43					
		12.0	13.22	29.53					
		15.0	13.16	29.45					
Date 9-VII-69									
H.W. 0718 1930									
L.W. 0106 1312									
D1	1250	0.5	21.15	26.14					0.86
		2.5	21.01	26.31					
D2	1235	0.5	21.97	26.56					
		3.0	19.13	27.81					
		6.0	17.94	28.11					
D3	1212	0.5	19.74	27.44					1.05
		3.0	17.96	28.25					
D4	1200	0.5	18.12	28.46					
		3.0	17.37	28.51					
		6.0	17.20	28.43					
		9.0	16.93	28.66					
		12.0	16.89	28.56					
D5	1038	0.5	17.73	28.60					0.67
		3.0	16.84	28.72					
		6.0	16.62	28.76					
		9.0	16.40	28.84					
		12.0	16.48	28.84					
		18.0	16.47	28.78					
24.0	16.09	28.90							
D6	0956	0.5	16.05	29.04					0.47
		3.0	15.88	29.02					
		6.0	15.20	29.09					
		9.0	14.92	29.30					



Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0910	0.5	15.07	29.45					0.46
		3.0	14.86	29.32					
		6.0	14.54	29.41					
		9.0	13.76	29.55					
		12.0	13.50	29.61					
		18.0	13.34	29.66					
D8	0852	0.5	13.85	29.63					
		3.0	13.60	29.63					
		6.0	13.35	29.61					
		9.0	13.21	29.67					
		12.0	13.03	29.70					
		18.0	12.40	29.82					
		24.0	11.98	29.90					
D9	0837	0.5	12.44	29.86					
		3.0	12.18	29.89					
		6.0	11.68	29.98					
		9.0	10.92	30.00					
		12.0	10.42	30.00					
		18.0	9.71	30.06					
		24.0	9.00	30.23					
D10	0825	0.5	12.31	29.72					
		3.0	11.22	29.76					
		6.0	10.97	30.03					
		9.0	10.69	29.98					
		12.0	9.14	30.11					
		15.0	8.54	30.20					

Date 10-VII-69  
H.W. 0812 2024  
L.W. 0200 1406

D1	0815	0.3			5.39				
D3	0830	0.3			5.71				
D5	0850	0.3			6.16				
		5.0			5.74				
	0930	18.0			5.81				
D6	0942	0.3			6.30				
D7	0955	0.3			6.16				
		5.0			6.30				
		15.0			6.23				

Date 11-VII-69  
H.W. 0906 2112  
L.W. 0254 1454

P6	1100	0.3	20.38	23.78	4.27				
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Date 22-VII-69  
 H.W. 0348 1618  
 L.W. 1000 2236

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D1	0945	0.3				1.58	1.25	17.20	
		2.5				1.68	0.59	17.07	
D2	1000	0.3				1.30	0.62		
		3.0				0.49	0.06		
D3	1010	0.3				1.10	0.06		
		3.0				0.79	0.00		
D7	1030	0.3				0.68	0.31	13.42	
		10.0				0.79	0.32	10.06	

Date 24-VII-69  
 H.W. 0548 1812  
 L.W. 1148

P6	1220	0.3	27.10	23.76	9.24				0.73
P5	0905								0.94
P4	0938								0.86
P3	1000								0.73
P2	1025								0.67
P1	1050								0.47

Date 25-VII-69  
 H.W. 0654 1912  
 L.W. 0042 1248

D1	0840	0.5	21.57	27.87	5.60				
		3.0	20.20	28.28					
D2	0859	0.5	19.44	28.52					
		3.0	18.77	28.70					
		6.0	17.99	28.76					
D3	0915	0.5	19.20	28.70	5.88				
		3.0	17.83	28.88					
D4	0924	0.5	15.88	30.29					
		3.0	15.42	30.66					
		6.0	14.94	30.86					
		9.0	14.44	30.76					
		12.0	14.87	30.84					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D5	0937	0.5	18.58	28.59	5.95				
		3.0	18.29	28.64					
		6.0	18.29	28.58	5.67				
		9.0	18.17	28.59					
		12.0	17.91	28.73	5.53				
D6	1030	0.5	18.13	28.21	5.64				
		3.0	18.00	28.47					
		6.0	18.00	28.47					
D7	1100	0.5	18.19	28.12	5.74				
		3.0	17.73	28.31					
		6.0	17.11	28.31	5.78				
		9.0	16.89	28.39					
		12.0	16.67	28.38	5.74				
D8	1117	0.5	17.10	28.53					
		3.0	15.89	28.81					
		6.0	15.44	28.87					
		9.0	15.16	28.92					
		12.0	14.76	28.86					
		18.0	12.83	29.88					
25.0	11.67	30.66							
D9	1130	0.5	14.95	28.98					
		3.0	14.76	29.00					
		6.0	14.83	29.07					
D10	1148	0.5	15.01	28.86	6.09				
		3.0	14.67	28.99					
		6.0	14.34	29.11					

Date 31-VII-69  
H.W. 0000 1236  
L.W. 0624 1842

P6 1000 0.3 0.64 0.00 70.83

Date 5-VIII-69  
H.W. 0436 1700  
L.W. 1042 2330

D1 1000 0.3 2.01  
D2 1015 0.3 2.04  
D3 1020 0.3 1.61

Date 6-VIII-69  
 H.W. 0542 1800  
 L.W. 1136

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P6	0930	0.3			4.06				
D1	1000	0.3			4.06				
D3	1015	0.3			4.27				
D5	1035	0.3			4.97				
		6.0			4.66				
		18.0			4.69				
D6	1110	0.3			4.69				
D7	1120	0.3			4.80				
		6.0			4.76				
		10.0			5.00				
D8	1207	0.3			5.00				

Date 7-VIII-69  
 H.W. 0648 1900  
 L.W. 0030 1242

D1	0755	0.5	23.03	27.22				0.67
		3.0	27.08	29.39				
D2	0845	0.5	21.25	28.42				
		3.0	20.07	28.82				
D3	0857	0.5	20.98	28.41				0.73
		3.0	19.89	28.68				
D4	0914	0.5	20.63	28.51				
		3.0	20.06	28.90				
		6.0	19.35	28.80				
		9.0	19.15	29.07				
		12.0	18.72	29.24				
D5	0925	0.5	19.54	28.97				0.52
		3.0	18.79	28.93				
		6.0	18.60	29.05				
		9.0	18.52	29.06				
		12.0	18.45	29.06				
D6	1000	0.5	18.04	29.21				0.52
		3.0	17.93	29.21				

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1015	0.5	17.52	29.32					0.47
		3.0	17.12	29.31					
		6.0	16.94	29.21					
		9.0	16.51	29.41					
		12.0	15.89	29.50					
		15.0	15.36	29.60					

D8	1047	0.5	17.48	29.32				
		3.0	16.51	29.25				
		6.0	15.70	29.44				
		9.0	15.70	29.39				
		12.0	15.48	29.56				
		18.0	15.40	29.48				

D9	1100	0.5	15.10	29.72				
		3.0	15.01	29.62				
		6.0	15.10	29.73				

D10	1110	0.5	14.83	29.82				
		3.0	14.71	29.72				
		6.0	14.62	29.78				

Date 8-VIII-69  
H.W. 0742 1954  
L.W. 0136 1336

P6	1200	0.3	27.5*	12.0*					1.05
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Date 11-VIII-69  
H.W. 1006 2206  
L.W. 0354 1554

D1	0.3				1.46			
	4.0				0.88			
D2	0.3				0.71			
	4.0				0.71			
D3	0.3				0.71			
	4.0				0.66			
D7	0.3				0.75			
	8.0				0.84			

Date 13-VIII-69  
H.W. 1118 2318  
L.W. 0506 1712

P6	1137	0.3	26.0*	22.0*	7.32				
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Date 20-VIII-69  
 H.W. 0324 1542  
 L.W. 0924 2212

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k																																																																																																																																																																																																																			
D1	0835	0.5	22.66	27.41	4.34				0.86																																																																																																																																																																																																																			
		3.0	21.74	27.30						D2	0900	0.5	21.86	28.03						3.0	21.66	28.26	D3	0920	0.5	21.46	28.56	5.11				0.86	3.0	21.38	28.78	D4	0938	0.5	20.56	28.66						3.0	20.19	28.75	6.0	19.95	28.76	9.0	19.84	28.60	12.0	19.66	28.92	D5	1016	0.5	20.00	28.73	5.39				0.94	3.0	19.52	28.98	6.0	18.90	29.12	5.32	9.0	18.58	29.28	5.32	12.0	17.48	29.68	16.0	17.24	30.21	D6	1043	0.5	17.62	29.96	5.39				0.59	3.0	17.38	29.72	6.0	17.18	29.73	9.0	17.07	29.88	D7	1128	0.5	19.02	28.90	5.42				0.59	3.0	17.59	29.00	6.0	17.36	29.04	5.46	9.0	16.53	29.13	5.53	12.0	16.21	29.14	D8	1150	0.5	16.38	29.28						3.0	16.08	29.24	6.0	16.03	29.16	9.0	15.70	29.41	12.0	15.47	29.37	18.0	15.20	29.42	D9	1202	0.5	15.61	29.12						3.0	15.43	29.30	6.0	15.31	29.34	9.0	15.20	29.29	12.0	15.14	29.30	18.0	14.40	29.52	D10	1214	0.5	14.21	29.30						3.0	13.92	29.54	6.0	12.97	29.33	9.0	12.76	29.33	12.0	12.63	29.48																					
D2	0900	0.5	21.86	28.03																																																																																																																																																																																																																								
		3.0	21.66	28.26						D3	0920	0.5	21.46	28.56	5.11				0.86	3.0	21.38	28.78	D4	0938	0.5	20.56	28.66						3.0	20.19	28.75			6.0	19.95	28.76						9.0	19.84	28.60	12.0	19.66	28.92	D5	1016	0.5	20.00	28.73	5.39						0.94	3.0	19.52	28.98		6.0	18.90	29.12	5.32	9.0	18.58	29.28	5.32	12.0	17.48	29.68	16.0	17.24	30.21	D6	1043	0.5			17.62	29.96	5.39									0.59	3.0	17.38	29.72	6.0	17.18			29.73	9.0	17.07	29.88	D7	1128	0.5		19.02	28.90	5.42				0.59	3.0	17.59	29.00	6.0	17.36	29.04	5.46			9.0	16.53	29.13						5.53	12.0	16.21	29.14	D8	1150	0.5	16.38	29.28						3.0			16.08	29.24	6.0						16.03	29.16	9.0	15.70	29.41	12.0	15.47	29.37	18.0	15.20	29.42	D9	1202	0.5	15.61			29.12											3.0	15.43	29.30	6.0	15.31	29.34	9.0	15.20	29.29	12.0	15.14	29.30	18.0	14.40	29.52	D10	1214	0.5	14.21	29.30						3.0	13.92	29.54	6.0	12.97
D3	0920	0.5	21.46	28.56	5.11				0.86																																																																																																																																																																																																																			
		3.0	21.38	28.78						D4	0938	0.5	20.56	28.66						3.0	20.19	28.75			6.0	19.95	28.76						9.0	19.84	28.60			12.0	19.66	28.92						D5	1016	0.5	20.00	28.73	5.39						0.94			3.0	19.52	28.98		6.0	18.90	29.12		5.32	9.0	18.58	29.28	5.32	12.0	17.48	29.68	16.0	17.24	30.21	D6	1043	0.5			17.62	29.96	5.39					0.59	3.0	17.38	29.72					6.0	17.18	29.73	9.0	17.07			29.88	D7	1128	0.5			19.02		28.90	5.42				0.59		3.0	17.59	29.00	6.0	17.36	29.04	5.46			9.0	16.53	29.13						5.53	12.0	16.21	29.14			D8	1150	0.5						16.38			29.28											3.0	16.08	29.24	6.0	16.03	29.16	9.0	15.70			29.41	12.0			15.47											29.37	18.0	15.20	29.42	D9	1202	0.5	15.61	29.12						3.0			15.43	29.30	6.0						15.31	29.34	9.0	15.20	29.29
D4	0938	0.5	20.56	28.66																																																																																																																																																																																																																								
		3.0	20.19	28.75																																																																																																																																																																																																																								
		6.0	19.95	28.76																																																																																																																																																																																																																								
		9.0	19.84	28.60																																																																																																																																																																																																																								
		12.0	19.66	28.92																																																																																																																																																																																																																								
D5	1016	0.5	20.00	28.73	5.39				0.94																																																																																																																																																																																																																			
		3.0	19.52	28.98																																																																																																																																																																																																																								
		6.0	18.90	29.12	5.32																																																																																																																																																																																																																							
		9.0	18.58	29.28	5.32																																																																																																																																																																																																																							
		12.0	17.48	29.68																																																																																																																																																																																																																								
		16.0	17.24	30.21																																																																																																																																																																																																																								
D6	1043	0.5	17.62	29.96	5.39				0.59																																																																																																																																																																																																																			
		3.0	17.38	29.72																																																																																																																																																																																																																								
		6.0	17.18	29.73																																																																																																																																																																																																																								
		9.0	17.07	29.88																																																																																																																																																																																																																								
D7	1128	0.5	19.02	28.90	5.42				0.59																																																																																																																																																																																																																			
		3.0	17.59	29.00																																																																																																																																																																																																																								
		6.0	17.36	29.04	5.46																																																																																																																																																																																																																							
		9.0	16.53	29.13	5.53																																																																																																																																																																																																																							
		12.0	16.21	29.14																																																																																																																																																																																																																								
D8	1150	0.5	16.38	29.28																																																																																																																																																																																																																								
		3.0	16.08	29.24																																																																																																																																																																																																																								
		6.0	16.03	29.16																																																																																																																																																																																																																								
		9.0	15.70	29.41																																																																																																																																																																																																																								
		12.0	15.47	29.37																																																																																																																																																																																																																								
18.0	15.20	29.42																																																																																																																																																																																																																										
D9	1202	0.5	15.61	29.12																																																																																																																																																																																																																								
		3.0	15.43	29.30																																																																																																																																																																																																																								
		6.0	15.31	29.34																																																																																																																																																																																																																								
		9.0	15.20	29.29																																																																																																																																																																																																																								
		12.0	15.14	29.30																																																																																																																																																																																																																								
18.0	14.40	29.52																																																																																																																																																																																																																										
D10	1214	0.5	14.21	29.30																																																																																																																																																																																																																								
		3.0	13.92	29.54																																																																																																																																																																																																																								
		6.0	12.97	29.33																																																																																																																																																																																																																								
		9.0	12.76	29.33																																																																																																																																																																																																																								
		12.0	12.63	29.48																																																																																																																																																																																																																								

Date 22-VIII-69  
 H.W. 0524 1748  
 L.W. 1124

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P6	1215	0.3	20.59	21.69	7.77				0.86

Date 29-VIII-69  
 H.W. 1212  
 L.W. 0600 1818

D1	0820	0.3			1.15	0.12	4.93		
		2.5			1.10	0.12	4.90		
D2	0831	0.3			0.89	0.00			
		3.5			0.81	0.30			
D3	0840	0.3			0.81	0.02	2.15		
		4.5			0.76	0.00	3.01		
D5	0854	0.3			0.89	0.57	4.21		
		10.0			0.94	1.31	5.93		
D7	0913	0.3			0.79	1.92	6.79		
		12.0			0.94	0.57	7.14		

Date 3-IX-69  
 H.W. 0400 1618  
 L.W. 1000 2254

D1	0846	0.3			4.34				
D3	0900	0.3			5.25				
D5	0915	0.3			5.50				
		6.0			5.39				
		14.0			5.25				
D6	0946	0.3			5.39				
D7	0955	0.3			5.32				
		6.0			5.32				
		12.0			5.32				

Date 4-IX-69  
 H.W. 0506 1718  
 L.W. 1054 2354

D1	0920	0.5	17.58	30.20					0.53
D2	0945	0.5	19.98	28.25					
		3.0	19.80	29.04					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k	
D3	0955	0.5	20.05	29.10					1.10	
		3.0	19.14	29.28						
D4	1012	0.5	19.46	29.16						
		3.0	18.94	29.20						
		6.0	18.72	29.20						
		9.0	18.54	29.12						
D5	1020	0.5	19.06	29.26					0.80	
		3.0	18.24	29.25						
		6.0	18.38	29.28						
		9.0	18.22	29.38						
		12.0	18.21	29.33						
		16.5	17.97	29.32						
D6	1055	0.5	17.93	29.23					0.56	
		3.0	17.21	29.89						
D7	1116	0.5	15.42	30.43					0.53	
		3.0	15.12	31.16						
		6.0	14.89	31.18						
		9.0	13.51	31.80						
		12.0	13.22	31.88						
D8	1143	0.5	16.31	29.68						
		3.0	15.84	29.69						
		6.0	15.47	29.72						
		9.0	15.18	29.78						
		12.0	15.07	29.76						
		18.0	14.82	29.92						
		21.0	14.74	29.82						
D9	1154	0.5	14.78	29.97						
		3.0	14.52	30.10						
		6.0	14.47	30.20						
		9.0	14.34	30.18						
		12.0	14.09	30.22						
		18.0	14.00	30.24						
		21.0	13.95	30.28						
D10	1201	0.5	15.31	29.51						
		3.0	15.22	29.52						
		6.0	15.18	29.53						
		9.0	15.14	29.58						
		12.0	15.18	29.34						
P6		0.3	24.82	21.22	9.10				1.92	
Date 20-IX-69										
H.W. 0518 1736										
L.W. 1112										
P6		0.5	17.00	27.00	5.67					0.80
P5	1015	0.5	16.45	27.53	5.46	0.85	0.31	3.20		0.87



Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P4		0.5	16.14	28.45	6.30				1.07
P3		0.5	15.81	28.74	6.30	0.60	0.31	Tr	0.87
		6.0	15.54	29.02	6.23				
P2		0.5	15.60	28.96	6.16				0.52
P1	0845	0.5	15.46	29.59	5.81	0.81	0.06	5.51	0.56
		6.0	15.03	29.40	5.53				
		18.0	14.74	29.38	5.60				

Date 4-X-69  
H.W. 0530 1736  
L.W. 1118

P6		0.5	12.07	26.40	4.97	0.90		7.55	0.87
P5	1210	0.5	14.82	27.39	5.32	0.90		6.53	0.67
P4		0.5	14.28	28.81	5.60				0.79
P3		0.5	14.18	29.29	5.60	0.60		3.59	0.63
		3.0	14.18	29.10					
		6.0	14.01	29.34	5.39				
P2		0.5	14.06	29.38	5.25				0.50
P1	1030	0.5	13.74	29.59	5.32	0.82	3.03	5.51	0.43
		3.0	13.86	29.40					
		6.0	13.58	29.38	5.39				

Date 18-X-69  
H.W. 0400 1612  
L.W. 0954 2248

P6	1145	0.5	10.54	26.34	5.73	0.47	0.00	8.20	<0.70
P5		0.5	12.25	28.33		0.77	14.36	10.01	0.52
P4		0.5	12.33	28.99					0.79
P3		0.5	12.51	29.64		0.82	2.36	9.99	0.73
		6.0	12.47	29.64					
P2		0.5	12.66	29.62					0.43
P1	0840	0.5	12.62	29.68	5.60	0.84	3.73	9.60	0.39
		6.0	12.34	29.70					
		11.0	12.32	29.65					

Date 1-XI-69  
 H.W. 0342 1548  
 L.W. 0936 2218

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P6	1200	0.5	6.27	23.32	6.30	0.95	0.47	14.34	<0.94
P5		0.5	6.64	28.35	7.07	0.60	0.19	9.09	0.32
P4		0.5	7.49	29.56	6.56				0.43
P3		0.5	8.39	29.81	6.16	0.95	1.04	18.30	0.36
		6.0	8.49	29.89	6.16				
		17.0	8.50	29.90	6.16				
P2		0.5	8.51	29.92	6.09				0.30
P1	0930	0.5	8.79	29.80	6.09	0.99	1.11	17.98	0.30
		6.0	8.82	29.96					
		12.0	8.71	29.42					

Date 15-XI-69  
 H.W. 0242 1500  
 L.W. 0842 2130

P6	1200	0.5	8.60	3.56	6.86	0.17	0.66	105.10	1.00
P5		0.5	5.89	22.08	6.09	0.69	4.16	30.39	0.67
P4		0.5	7.05	28.18	6.30				0.79
P3		0.5	7.40	29.94	6.30	0.90	4.43	23.84	0.59
P2		0.5	5.50	29.26	6.30				0.59
P1	0930	0.5	8.25	29.50	6.30	0.90	7.67	23.40	0.59
		6.0	8.22	29.92					
		12.0	8.16	30.18					

Date 6-XII-69  
 H.W. 0754 2030  
 L.W. 0142 1418

P6	1330	0.5	1.43	13.09	8.67	0.22	0.82	25.81	<0.63
P5		0.5	3.15	23.61	7.49	0.43	1.86	21.62	
P4		0.5	3.44	25.82	7.42				0.59
P3		0.5	3.52	25.71	7.35	0.56	2.43	22.53	0.43
P2		0.5	3.70	27.56	7.00				0.39

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P1	0930	0.5	4.57	28.12	6.93	0.64	2.47	21.75	0.36
		6.0	4.85	28.30	6.79				
		11.0	4.87	28.32	6.75				

Date 10-XII-69  
H.W. 1106 2348  
L.W. 0448 1736

D7	0850	0.5	5.05	27.74	7.63	1.29	0.36	25.00	
		1.0	5.04	27.97					
		3.0	5.06	27.94					
		6.0	5.21	28.18	6.93	1.21	0.36	23.00	
		9.0	5.21	28.36					
		12.0	5.16	28.36					

Date 28-XII-69  
H.W. 0148 1348  
L.W. 0736 2012

P6	1230	0.5	0.32	0.50	9.44	0.13	6.21	71.53	1.89
P5		0.5	1.42	17.84	7.84	0.56	3.02	25.68	0.86
P1	1000	0.5	2.49	26.66	7.70	0.73	3.56	23.06	0.43

Date 20-I-70  
H.W. 0936 2218  
L.W. 0324 1606

P6	1330	0.5	0.00	14.36	8.33	0.26	4.76	33.80	<0.79
P5		0.5	-1.00	19.33	8.47	0.56	5.61	22.79	
P3		0.5	-0.05	26.11	8.05				0.28
P2		0.5	2.60	27.46	7.91				0.25
P1	1000	0.5	1.02	28.11	7.63	0.86	8.12	17.95	<0.24
		6.0	1.26	28.34	7.63				

Date 7-II-70  
H.W. 1130  
L.W. 0518 1734

P6	1415	0.5	1.45	0.20	9.09	0.09	3.47	77.10	1.57
P5		0.5	1.90	23.72	8.19	0.56	4.87	9.56	0.94
P4		0.5	0.59	22.76	8.19				0.73

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P3		0.5	1.52	24.36	8.12	0.60	6.49	7.73	0.56
P2		0.5	1.42	26.67	8.26				0.63
P1	0930	0.5	1.71	27.10	7.84	0.69	8.43	4.19	0.47
		6.0	1.92	27.50	7.84				
		15.0	1.70	28.10	7.73				

Date 20-11-70  
H.W. 1036 2306  
L.W. 0424 1654

D7	1500	0.5	0.96	27.91	8.12	0.89	5.30	19.50
		1.0	0.92	28.15				
		3.0	0.92	28.28				
		6.0	0.97	28.57	8.05	5.93	19.50	
		9.0	0.93	28.58				
		12.0	0.95	28.63				

Date 28-11-70  
H.W. 0312 1548  
L.W. 0942 2148

P6	1245	0.5	0.47	3.57	7.42	0.21	0.76	84.00	1.18
P5		0.5	1.00	16.00	9.30	0.34	0.84	23.84	
P1	0940	0.5	0.48	27.36	7.98	0.63	2.44	14.88	0.34
		6.0	0.78	27.52	7.87				
		12.0	0.93	28.14	7.66				

Date 13-III-70  
H.W. 0254 1536  
L.W. 0924 2130

D7	1400	0.5	1.42	30.10	7.98	0.85	4.37	14.20
		1.0	1.40	30.05				
		3.0	1.45	30.03				
		6.0	1.67	30.37				
		10.0	1.53	30.46				

Date 22-III-70  
H.W. 1042 2300  
L.W. 0436 1654

P6	1255	0.5	1.84	0.26	8.61	0.34	0.68	69.04	2.36
P5		0.5	3.32	20.32	8.68	0.21	0.00	10.25	0.67

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P4		0.5	3.70	25.16	8.61				0.39
P3		0.5	3.60	26.15	8.47	0.25	0.60	8.78	0.35
P2		0.5	3.34	27.16	8.33				0.26
P1	0940	0.5	3.88	27.67	8.26	0.34	0.92	8.78	<0.24
		6.0	3.35	28.03	8.12				
		15.0	2.87	28.31	7.94				

Date 5-IV-70  
H.W. 1012 2230  
L.W. 0354 1618

P6	1030	0.5	2.65	0.67		0.21	Tr	85.68	3.15
P5		0.5	4.20	17.23		0.08	Tr	17.20	1.18
P1	0800	0.5	3.61	26.48		0.25	Tr	6.34	0.39

Date 7-IV-70  
H.W. 1148  
L.W. 0536 1748

D7	1700	0.5	3.70	27.43	8.19	0.69	0.61	9.20	
		1.0	3.69	27.46					
		3.0	3.59	27.63					
		6.0	3.63	27.76					
		10.0	3.64	28.04	8.12	0.69	0.92	9.80	

Date 19-IV-70  
H.W. 0930 2148  
L.W. 0324 1536

P6	0930	0.5	4.70	0.31	8.40	0.13	2.04	53.14	
P5		0.5	7.68	21.78	7.70	0.42	0.00	9.88	0.79
P1	0800	0.5	5.37	26.77	8.05	0.13	0.00	8.05	0.43
		6.0	5.44	26.88	8.05				
		13.5	5.23	27.77	8.19				

Date 2-V-70  
H.W. 0806 2030  
L.W. 0154 1418

P6	1325	0.5	14.18	7.38	7.49	0.00	0.00	23.18	1.18
P5		0.5	13.05	19.05	6.44	0.13	0.00	15.74	1.18

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
P4		0.5	13.00	24.48	7.00				1.05
P3		0.5	10.95	24.85	7.28	0.17	0.00	14.40	0.73
P2		0.5	9.12	26.64	7.56				0.73
P1	0830	0.5	8.12	26.10	7.70	0.08	0.00	13.05	0.67
		6.0	8.47	26.78	7.63				
		13.0	8.02	26.75	7.70				

Date 7-V-70  
H.W. 1218  
L.W. 0606 1806

D7	1700	0.5	8.30	27.68	7.70	0.47	0.00	12.00	
		1.0	8.30	27.68					
		3.0	8.12	27.78					
		6.0	7.88	27.97					
		10.0	7.70	28.27	7.56	0.64	0.00	12.00	

Date 24-V-70  
H.W. 0036 1318  
L.W. 0706 1912

P1	1320	0.5	13.28	26.42	6.79	0.17	0.00	2.44	0.59
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Date 16-VI-70  
H.W. 0812 2024  
L.W. 0200 1406

D7	0730	0.5	13.84	28.53	6.37	2.58	0.00	0.60	
		1.0	13.64	28.65					
		3.0	13.13	28.78					
		6.0	12.88	28.93					
		10.0	12.56	29.02	6.44	2.80	0.00	0.60	

Date 30-VI-70  
H.W. 0830 2042  
L.W. 0224 1430

D7	1425	0.5	14.22	28.54	5.67	0.09	0.25	5.60	
		1.0	14.06	28.54					
		3.0	13.78	28.55					
		6.0	13.67	28.66					
		10.0	13.67	28.67	5.74	0.10	Tr	5.30	

Date 13-VII-70  
 H.W. 0536 1800  
 L.W. 1136

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0830	0.5	16.32	28.02	5.67	0.86	Tr	12.30	
		1.0	16.61	28.18					
		3.0	16.10	28.48					
		6.0	15.13	28.69					
		10.0	13.52	29.12	5.74	0.86	Tr	13.70	

Date 28-VII-70  
 H.W. 0718 1930  
 L.W. 0106 1312

D7	1200	0.5	18.08	29.26	0.51	0.25	6.90	
		1.0	16.39	29.62				
		3.0	15.15	29.89				
		6.0	15.48	29.44				
		10.0	14.44	30.01	0.64	0.63	6.30	

Date 12-VIII-70  
 H.W. 0554 1818  
 L.W. 1148

D7	1000	0.5	18.93	30.1+	5.60	0.89	2.63	9.60	
		1.0	18.57	30.2+					
		3.0	17.89	30.3+					
		6.0	17.58	30.3+					
		10.0	17.55	30.3+	5.46	1.29	2.76	8.90	

Date 31-VIII-70  
 H.W. 1048 2254  
 L.W. 0442 1648

D7	1515	0.5	17.18	30.47	4.97	1.30	1.79	12.80	
		1.0	17.05	31.22					
		3.0	16.84	31.12					
		6.0	16.88	30.92					
		10.0	16.76	31.18	4.97	1.33	1.62	12.80	

Date 22-IX-70  
 H.W. 0412 1630  
 L.W. 1012 2306

D7	1445	0.5	15.10	29.64	5.88	1.07	4.35	14.50	0.41
		1.0	15.08	29.93					
		3.0	14.90	29.95					
		6.0	14.76	29.82					
		10.0	14.60	29.72	5.81	1.07	12.80		

Date 7-X-70  
 H.W. 0306 1518  
 L.W. 0900 2154

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0740	0.5	14.06	28.98	5.74	1.40	1.24	14.00	0.48
		1.0	13.95	29.10					
		3.0	13.84	29.04					
		6.0	13.86	30.50					
		10.0	13.67	29.96	5.74	1.20	0.31	14.00	

Date 19-X-70  
 H.W. 0148 1400  
 L.W. 0748 2030

D2	0830	0.5	10.70	28.26
		1.0	10.56	28.22
		3.0	10.72	28.32
		6.0	10.64	28.32
D3		0.5	10.80	28.60
		1.0	10.90	28.40
		3.0	10.96	28.45
D4	0845	0.5	11.44	29.20
		1.0	11.42	28.92
		3.0	11.64	29.10
		5.0	11.64	29.00
D5	0854	0.5	12.01	29.00
		1.0	12.00	29.06
		3.0	12.08	28.98
		6.0	12.20	28.98
		9.0	12.26	28.98
		12.0	12.20	28.94
D6	0915	15.0	12.12	29.05
		0.5	12.16	29.15
		1.0	12.13	29.33
		3.0	12.20	29.22
		6.0	12.21	29.16
		9.0	12.25	28.99
		12.0	12.28	29.14
		14.0	12.22	29.21
D7	0925	0.5	12.18	29.68
		1.0	12.15	29.98
		3.0	12.01	29.33
		6.0	12.04	29.33
		9.0	12.06	29.42
		12.0	12.03	29.35
		15.0	11.98	29.25
17.0	12.02	29.27		



Date 21-X-70  
 H.W. 0342 1554  
 L.W. 0942 2230

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0800	0.5	11.64	29.00	5.60	0.60	0.74	16.40	0.32
		1.0	11.67	29.04					
		3.0	11.64	29.03					
		6.0	11.75	29.17					
		9.0	11.58	29.20	5.60	0.60	0.74	16.40	
		12.0	11.59	29.10					

Date 11-XI-70  
 H.W. 0854 2124  
 L.W. 0236 1512

D7	0820	0.5	9.52	27.92	6.09	1.20	5.30	17.60
		1.0	9.53	28.29				
		3.0	9.26	28.52				
		6.0	9.25	28.91				
		9.0	9.19	28.62	6.02	1.60	0.75	16.40
		12.0	9.40	28.81				

Date 1-XII-70  
 H.W. 0006 1212  
 L.W. 0600 1842

D1	1200	0.5	5.00	21.14
		1.0	5.19	23.59
		3.0	5.85	25.58
		6.0	5.76	25.66
D2	1145	0.5	5.54	25.80
		1.0	5.80	25.97
		3.0	5.90	26.88
		6.0	6.14	26.91
D3	1130	0.5	5.94	26.80
		1.0	5.96	26.68
		3.0	6.35	27.12
		6.0	6.50	27.26
D4	1110	0.5	6.28	28.48
		1.0	6.05	27.10
		3.0	6.19	27.10
		6.0	6.40	27.24
		9.0	6.44	27.14
		12.0	6.35	27.14

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D5	1050	0.5	6.55	27.69					
		1.0	6.60	27.86					
		3.0	6.52	27.82					
		6.0	6.72	27.80					
		9.0	6.45	27.89					
		12.0	6.65	27.88					
D6	1025	0.5	6.54	28.00					
		1.0	6.42	27.99					
		3.0	6.62	28.04					
		6.0	6.74	28.14					
		9.0	6.83	27.92					
		12.0	7.00	28.59					
D7	1005	0.5	6.84	28.28					
		1.0	6.90	28.34					
		3.0	7.04	28.40					
		6.0	6.90	28.45					
		9.0	6.91	28.50					
D8	0950	0.5	7.44	29.09					
		1.0	7.52	29.24					
		3.0	7.67	29.27					
		6.0	7.60	29.28					
		9.0	7.60	29.24					
12.0	7.58	29.29							

Date 12-I-71  
H.W. 1124  
L.W. 0512 1754

D7	0730	0.5	0.00	31.90	8.26	0.84	0.96	19.90	0.21
		1.0	0.00	31.92					
		3.0	0.00	31.82					
		6.0	0.00	32.24					
		10.0	0.00	32.31	8.26	1.05	0.96	18.80	

Date 27-I-71  
H.W. 1054 2330  
L.W. 0442 1718

D7	1420	0.5	0.00	31.92	8.19	1.00	2.68	16.40	0.24
		1.0	0.00	32.04					
		3.0	0.00	31.53					
		6.0	0.00	31.65					
		10.0	0.00	31.80	7.84	1.12	2.25	15.20	

Date 17-II-71  
 H.W. 0306 1536  
 L.W. 0930 2136

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0735	0.5	1.60	29.84	8.40	0.72	0.25	16.50	0.41
		1.0	0.88	30.82					
		3.0	0.90	31.20	8.40	0.80	1.25	15.30	
		6.0	0.72	30.65					
		10.0	0.58	30.00					

Date 10-III-71  
 H.W. 1012 2236  
 L.W. 0400 1630

D7	0755	0.5	0.00	27.90	8.19	0.86	6.70	7.00	0.29
		1.0	0.00	27.55					
		3.0	0.01	27.40	7.77	0.64	6.90	6.00	
		6.0	0.20	27.24					
		9.0	0.20	27.84					

Date 17-III-71  
 H.W. 0148 1418  
 L.W. 0812 2018

D1	1040	0.5	1.55	14.85
		1.0	1.29	15.51
		3.0	1.35	20.53
D2	1030	0.5	1.59	18.99
		1.0	1.30	21.76
		3.0	1.51	23.38
		5.0	1.43	24.15
D3	1020	0.5	1.99	21.20
		1.0	1.32	21.23
		3.0	1.53	24.82
D4	1010	0.5	1.37	20.66
		1.0	1.25	20.96
		3.0	1.45	25.96
		6.0	1.40	25.92
		10.0	1.40	26.01
D5	1000	0.5	1.60	22.44
		1.0	1.40	22.50
		3.0	1.39	24.19
		6.0	1.47	25.85
		10.0	1.50	26.15
D6	0940	0.5	1.45	26.24
		1.0	1.55	26.22
		3.0	1.30	25.70
		6.0	1.40	26.09
		10.0	1.40	26.76

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0925	0.5	1.80	26.70					
		1.0	1.70	26.68					
		3.0	1.61	27.10					
		6.0	1.51	27.68					
		10.0	1.71	27.97					
D8	0910	0.5	1.92	27.99					
		1.0	2.00	27.61					
		3.0	2.10	27.40					
		6.0	2.02	27.50					
		10.0	1.89	27.37					

Date 30-III-71  
H.W. 0106 1342  
L.W. 0730 1942

D7	0830	0.5	3.23	24.89	5.95	1.08	Tr	9.50	0.48
		1.0	3.14	25.35					
		3.0	3.20	24.96					
		6.0	3.24	25.10					
		10.0	3.01	25.54	5.81	0.86	3.64	10.70	

Date 13-IV-71  
H.W. 0006 1236  
L.W. 0624 1830

D7	0850	0.5	5.25	24.70	8.40	Tr	Tr	5.90	0.41
		1.0	4.94	24.90					
		3.0	5.08	24.91					
		6.0	4.64	25.80					
		10.0	4.29	25.09	8.40	0.43	Tr	4.80	

Date 23-IV-71  
H.W. 0906 2130  
L.W. 0254 1512

D1	0950	1.0	6.61	22.74					
		3.0	6.11	26.30					
		5.0	6.00	26.49					
D2	1000	0.5	7.12	23.20					
		1.0	6.70	23.70					
		3.0	5.92	26.84					
		6.0	6.02	27.04					
		10.0	5.88	27.02					
D3	1006	0.5	6.62	24.40					
		1.0	6.10	26.06					
		3.0	6.06	27.14					
		6.0	6.10	27.20					

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D4	1018	0.5	6.36	25.98					
		1.0	6.08	26.99					
		3.0	6.11	27.28					
		6.0	5.80	27.18					
		9.0	5.90	27.10					
D5	1030	0.5	6.30	26.60					
		1.0	6.58	26.50					
		3.0	5.82	27.40					
		6.0	5.91	27.59					
		9.0	5.85	27.80					
		12.0	5.86	27.75					
D6	1040	0.5	5.60	28.06					
		1.0	5.78	28.12					
		3.0	5.75	28.30					
		6.0	5.51	29.00					
		9.0	5.52	29.00					
		12.0	5.24	29.31					
D7	1055	0.5	5.84	28.16					
		1.0	5.52	28.70					
		3.0	5.45	28.90					
		6.0	5.20	29.40					
		9.0	5.07	29.26					
		12.0	5.05	29.70					

Date 11-V-71  
H.W. 1136 2342  
L.W. 0530 1730

D7	0730	0.5	9.10	26.82	7.80	0.43	0.97	2.40	0.41
		1.0	8.43	27.46					
		3.0	8.20	27.41					
		6.0	7.94	27.79					
		10.0	7.67	27.97	7.80	0.43	0.74	5.90	

Date 25-V-71  
H.W. 1130 2336  
L.W. 0518 1724

D7	1200	0.5	10.61	28.67	7.49	0.43	0.62	6.00	0.48
		1.0	10.40	28.84					
		3.0	10.17	28.88					
		6.0	9.80	29.33					
		10.0	9.80	29.23	7.28	0.43			

Date 8-VI-71  
 H.W. 1036 2236  
 L.W. 0424 1624

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0740	0.5	13.08	28.77	6.65	0.43		2.94	0.36
		1.0	13.13	28.89					
		3.0	12.12	29.13					
		6.0	11.61	29.22					
		10.0	11.01	29.38	6.93	0.43		2.52	

Date 29-VI-71  
 H.W. 0312 1548  
 L.W. 0930 2154

D7	1440	0.5	15.10	29.90	4.55	0.43	0.06	3.78	0.48
		1.0	15.00	29.82					
		3.0	14.62	30.00					
		6.0	14.62	30.02					
		9.0	13.84	30.32	6.51	0.65	0.06	3.36	
		12.0	13.52	30.32					

Date 13-VII-71  
 H.W. 0206 1442  
 L.W. 0824 2054

D7	0825	0.5	17.52	29.64	5.60	1.29	1.49	4.62	0.63
		1.0	16.98	29.63					
		3.0	16.82	29.53					
		6.0	16.39	29.72					
		9.0	16.10	29.73	5.80	1.29	1.24	4.20	

Date 27-VII-71  
 H.W. 0148 1418  
 L.W. 0800 2024

D7	0620	0.5	17.30	29.76	5.46	0.62	2.18	6.72
		1.0	17.33	29.85				
		3.0	16.81	29.93				
		6.0	17.01	29.82				
		9.0	16.78	29.84	5.60	0.82	1.55	7.39
		12.0	16.65	29.82				

Date 10-VIII-71  
 H.W. 0100 1324  
 L.W. 0712 1942

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0745	0.5	18.32	31.00	4.50	1.70	0.31	0.16	0.85
		1.0	18.22	31.14					
		3.0	17.82	31.25					
		6.0	17.73	31.20	4.50	1.25		0.56	
		9.0	17.55	31.21					
		12.0	17.12	31.38					

Date 24-VIII-71  
 H.W. 0036 1300  
 L.W. 0648 1906

D7	1500	1.0	18.0**	31.47#	6.20	0.95	0.37	0.80	0.50
		3.0	17.2**	31.43#					
		6.0	17.0**	31.50#	5.78	1.05	0.50	1.60	
		9.0	17.1**	31.53#					

Date 7-IX-71  
 H.W. 1212  
 L.W. 0600 1830

D7	1700	0.5	17.70	31.16	5.39	1.12	1.67	6.30	0.72
		1.0	17.55	31.22					
		3.0	17.48	31.16					
		6.0	17.39	31.31	5.39	1.26	1.90	5.92	
		9.0	17.34	31.29					
		12.0	17.14	31.18					

Date 21-IX-71  
 H.W. 1148  
 L.W. 0542 1800

D7	0720	0.5	17.29	31.26	5.20	0.90	1.88	7.89	0.58
		1.0	17.15	31.20					
		3.0	17.23	31.08					
		6.0	17.16	31.14	5.20	0.94	2.14	9.11	
		9.0	17.13	30.92					
		12.0	17.28	30.95					

Date 5-X-71  
 H.W. 1100 2330  
 L.W. 0448 1718

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0704	0.5	14.45	31.52	5.70	0.85	1.01	4.62	0.72
		1.0	14.52	31.52					
		3.0	14.40	31.77					
		6.0	14.63	31.65	5.60	0.85	0.76	4.45	
		9.0	14.57	31.63					
		12.0	14.57	31.72					

Date 18-X-71  
 H.W. 1018 2242  
 L.W. 0406 1630

D7	1605	0.5	12.87	30.50	5.46	1.17	3.27	9.82	0.42
		1.0	12.97	30.42					
		3.0	12.74	30.56					
		6.0	12.77	30.73	5.46	1.17	2.52	9.66	
		9.0	12.76	30.65					
		11.0	12.87	30.54					

Date 2-XI-71  
 H.W. 0948 2224  
 L.W. 0330 1612

D7	1420	0.5	11.89	30.55	5.60	1.10	2.84	15.36	0.58
		1.0	11.94	30.87					
		3.0	11.81	30.78					
		6.0	11.81	31.01	5.60	0.62	3.47	15.77	
		9.0	11.81	31.01					

Date 15-XI-71  
 H.W. 0906 2136  
 L.W. 0254 1530

D7	0830	0.5	7.60	32.05	5.95	1.03	4.19	14.94	0.30
		1.0	7.77	32.18					
		3.0	8.00	32.64					
		6.0	8.20	32.38	6.30	1.15	3.82	15.27	
		9.0	8.16	32.28					
		10.0	8.24	32.35					



Date 30-XI-71  
 H.W. 0836 2112  
 L.W. 0218 1500

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0912	0.5	6.42	31.28	6.73	1.06	5.34	13.28	0.41
		1.0	6.44	31.08					
		3.0	6.64	31.69					
		6.0	6.97	31.64	6.51	1.06	4.75	13.72	
		9.0	7.02	31.79					
		12.0	7.13	32.02					

Date 13-XII-71  
 H.W. 0742 2018  
 L.W. 0124 1406

D7	1445	0.5	4.43	31.87	7.07	0.74	6.04	13.53	0.37
		1.0	4.40	31.86					
		3.0	4.61	31.60					
		6.0	4.74	31.68	6.93	0.82	6.63	15.60	
		9.0	4.91	31.44					
		12.0	5.04	31.31					

Date 2-II-72  
 H.W. 0044 1254  
 L.W. 0645 1909

D7	1132	0.5	0.24	32.48	7.91	1.40	2.75	11.93	0.24
		1.0	0.20	32.64					
		3.0	0.28	32.56					
		6.0	0.32	32.52	8.05	1.58	1.50	10.92	
		9.0	0.24	32.56					
		12.0	0.24	32.60					

Date 28-II-72  
 H.W. 1036 2303  
 L.W. 0421 1653

D7	0900	0.5	-0.5*	31.56#	7.84	0.89	1.50	10.56	0.25
		9.0	0.0*	31.46#					

Date 16-III-72  
 H.W. 1123 2343  
 L.W. 0511 1732

D7	0915	0.5	0.72	30.70	8.54	0.47	2.80	10.65
		1.0	0.76	30.64				
		3.0	0.72	30.47				
		6.0	1.06	30.62	8.61	0.56	1.50	10.65
		9.0	1.17	30.37				
		12.0	1.21	30.30				

Date 27-III-72  
 H.W. 0934 2156  
 L.W. 0323 1547

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0920	0.5	2.04	28.44	8.30	0.54	3.35	8.93	0.38
		1.0	2.04	28.38					
		3.0	2.13	28.74					
		6.0	2.30	29.38	8.70	0.60	3.58	9.10	
		9.0	2.35	29.45					
		12.0	2.35	29.65					

Date 10-IV-72  
 H.W. 0734 2003  
 L.W. 0121 1353

D7	1435	0.5	3.32	27.69	7.98	0.66	1.50	8.50	0.38
		1.0	3.29	27.62					
		3.0	3.28	27.64					
		6.0	3.26	28.55	8.12	0.42	2.65	8.76	
		9.0	3.00	28.46					
		12.0	2.99	29.13					

Date 24-IV-72  
 H.W. 0820 2044  
 L.W. 0210 1431

D7	1510	0.5	5.38	27.76	8.47		0.02	6.97	0.39
		1.0	5.13	27.75					
		3.0	5.25	28.26					
		6.0	5.26	28.25	8.47		0.25	6.97	
		9.0	4.36	29.29					
		12.0	4.29	29.67					

Date 11-V-72  
 H.W. 0855 2114  
 L.W. 0245 1500

D7	1425	0.5	7.34	28.04	7.70	0.27	0.25	0.00	0.53
		1.0	7.28	28.17					
		3.0	7.34	28.11					
		6.0	7.09	28.32	7.56	0.45	0.20	0.00	
		9.0	7.17	28.36					
		12.0	7.24	28.36					

Date 7-VI-72  
 H.W. 0632 1858  
 L.W. 0026 1239

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1730	0.5	13.10	27.10	6.58	0.46	0.30	3.83	0.50
		1.0	13.00	27.34					
		3.0	12.85	27.39					
		6.0	11.48	28.55	6.65	0.76	0.75	3.66	
		9.0	11.26	28.68					
		12.0	11.02	28.81					

Date 22-VI-72  
 H.W. 0800 2010  
 L.W. 0152 1357

D7	1200	0.5	13.49	27.30	6.16	0.70	0.00	4.16	0.50
		1.0	13.45	27.42					
		3.0	13.46	27.34					
		6.0	12.85	27.85	6.37	0.90	0.00	4.08	
		9.0	11.92	28.56					
		12.0	11.63	28.76					

Date 6-VII-72  
 H.W. 0614 1836  
 L.W. 0004 1215

D7	0645	0.5	14.65	28.18	6.23	0.45	0.60	7.36	0.45
		1.0	14.58	28.25					
		3.0	14.18	28.34					
		6.0	13.77	28.53	6.23	0.62	0.70	6.00	
		9.0	13.00	28.86					
		12.0	12.89	28.81					

Date 20-VII-72  
 H.W. 0622 1839  
 L.W. 0010 1217

D7	0745	0.5	16.04	28.95	5.90	0.86	2.61	3.13	0.36
		1.0	16.10	28.94					
		3.0	15.91	29.02					
		6.0	14.76	29.28	5.90	0.82	1.86	2.85	
		9.0	14.05	29.44					
		12.0	13.98	29.33					

Date 3-VIII-72  
 H.W. 0452 1718  
 L.W. 1055 2351

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0830	0.5	16.60	29.97	5.60	0.43	4.12	4.42	0.72
		1.0	16.73	30.07					
		3.0	16.78	30.03					
		6.0	16.59	30.04	5.50	0.47	4.60	4.69	
		9.0	16.51	30.14					
		12.0	16.52	30.07					

Date 14-VIII-72  
 H.W. 0204 1423  
 L.W. 0810 2039

D7	1400	0.5	15.85	30.18	5.67	0.95	0.40	4.67	0.63
		1.0	16.02	30.04					
		3.0	15.01	30.09					
		6.0	14.69	30.09	5.53	1.08	3.80	6.31	
		9.0	13.96	30.15					
		12.0	14.05	30.16					

Date 30-VIII-72  
 H.W. 0233 1457  
 L.W. 0836 2124

D7	1210	0.5	16.66	30.51	5.39	0.92	3.50	5.90	0.48
		1.0	16.91	30.41					
		3.0	16.69	30.28					
		6.0	16.29	30.16	5.25	0.92	3.26	6.97	
		9.0	16.65	30.30					
		12.0	16.24	30.44					

Date 3-X-72  
 H.W. 0756 2014  
 L.W. 0141 1403

D7	0822	0.5	12.5*	31.42#	6.00	1.15	6.60	4.48	0.48
		9.0	14.1*	31.69#					

Date 18-X-72  
 H.W. 0657 1915  
 L.W. 0043 1305

D7	0845	0.5	10.2*	31.61#	5.90	1.02	2.50	5.36	0.36
		9.0	10.8*	31.83#					

Date 1-XI-72  
 H.W. 0730 1953  
 L.W. 0115 1344

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1210	0.5	9.0*	31.44#	6.10	0.88	3.25	14.08	0.36
		9.0	8.9*	31.49#	6.10	1.13	7.26	16.64	

Date 17-XI-72  
 H.W. 0704 1934  
 L.W. 0045 1325

D7	0940	0.5	6.21	30.32	6.30	1.34	2.95	15.99	0.39
		1.0	6.16	31.84					
		3.0	6.28	31.89					
		6.0	6.35	31.94	6.51	1.34	2.00	16.56	
		9.0	6.48	32.04					
		12.0	6.39	32.11					

Date 6-XII-72  
 H.W. 1106 2343  
 L.W. 0455 1731

D7	0750	0.5	4.03	31.50	6.90	0.84	1.23	17.04	0.39
		1.0	4.23	31.38					
		3.0	4.29	31.68					
		6.0	4.44	31.79	6.60	0.84	2.25	14.80	
		9.0	4.50	31.96					
		12.0	4.47	32.26					

Date 29-XII-72  
 H.W. 0612 1848  
 L.W. 1239

D7	0845	0.5	1.98	30.63	7.30	1.18	2.25	14.62	0.29
		1.0	1.84	30.64					
		3.0	2.15	30.84					
		6.0	2.46	31.13	6.90	1.18	2.80	14.30	
		9.0	2.79	31.53					
		12.0	2.78	31.38					

Date 12-I-73  
 H.W. 0403 1632  
 L.W. 1022 2237

D7	1420	0.5	0.30	31.44	7.14	0.88	3.25	14.14	0.22
		1.0	0.33	31.40					
		3.0	0.38	31.40					
		6.0	0.55	31.53	7.28	0.97	1.70	13.35	
		9.0	0.54	31.68					
		12.0	0.60	31.56					

Date 30-1-73  
 H.W. 0810 2052  
 L.W. 0156 1441

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1630	0.5	1.31	32.41	9.40	1.05	5.05	13.33	0.45
		1.0	1.32	32.23					
		3.0	1.36	32.23					
		6.0	1.37	32.43					
		9.0	1.36	32.55					
		12.0	1.43	32.71					
					7.30	1.13	4.90	14.19	

Date 14-II-73  
 H.W. 0800 2046  
 L.W. 0141 1435

D7	1200	0.5	1.36	28.84	8.12	0.63	2.50	7.31	0.48
		1.0	1.36	29.00					
		3.0	1.43	29.00					
		6.0	1.48	28.92					
		9.0	1.74	28.88					
		12.0	1.76	28.76					
					8.12	0.59	2.45	12.90	

Date 27-II-73  
 H.W. 0636 1918  
 L.W. 0014 1307

D7	0915	0.5	0.00	29.61	8.50	0.77	4.45	9.28	0.21
		1.0	0.00	29.57					
		3.0	0.00	29.58					
		6.0	0.00	29.92					
		9.0	0.00	29.96					
		12.0	0.00	29.71					
					8.50	1.08	6.50	10.88	

Date 8-III-73  
 H.W. 0046 1314  
 L.W. 0703 1916

D7	1512	0.5	1.30	30.26	8.50	1.94	2.50	7.76	0.36
		1.0	1.26	30.41					
		3.0	1.12	30.79					
		6.0	1.14	30.86					
		9.0	1.12	30.72					
		12.0	1.30	30.91					
					8.40	1.63	3.60	8.56	

Date 22-III-73  
 H.W. 0050 1318  
 L.W. 0709 1917

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0830	0.5	2.82	27.46	8.05	0.65	1.45	6.56	0.42
		1.0	2.82	27.48					
		3.0	2.79	27.45					
		6.0	2.80	28.44	6.22	0.86	1.50	6.96	
		9.0	2.81	29.05					
		12.0	2.92	29.33					

Date 11-IV-73  
 H.W. 0525 1813  
 L.W. 1156

D7	0855	0.5	3.82	28.40	7.80	0.43	1.20	6.95	0.63
		1.0	3.72	28.52					
		3.0	3.60	28.96					
		6.0	3.61	29.44	7.90	0.43	1.40	8.06	
		9.0	3.40	29.12					
		12.0	3.67	29.66					

Date 24-IV-73  
 H.W. 0305 1547  
 L.W. 0934 2146

D7	1535	0.5	8.70	28.62	8.19	0.52	1.40	0.79
		1.0	8.35	28.66				
		3.0	8.10	28.60				
		6.0	7.86	28.56	8.26	0.43	1.38	0.95
		9.0	7.33	28.85				
		12.0	7.16	28.87				

Date 9-V-73  
 H.W. 0403 1651  
 L.W. 1030 2258

D7	0755	0.5	8.76	28.12	7.50	0.43	1.55	1.38	0.55
		1.0	8.88	28.08					
		3.0	8.70	28.20					
		6.0	8.75	28.28	7.60	0.47	2.05	4.30	
		9.0	8.73	28.28					
		12.0	8.63	28.98					

Date 23-V-73  
 H.W. 0233 1515  
 L.W. 0858 2109

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	0810	0.5	10.16	26.86	6.80	0.52	0.85	6.02	0.63
		1.0	10.04	26.82					
		3.0	9.98	27.04					
		6.0	10.14	27.03	6.90	0.43	1.15	6.54	
		9.0	9.87	27.30					
		12.0	9.62	27.79					

Date 12-VI-73  
 H.W. 0845 2056  
 L.W. 0236 1442

D7	0810	0.5	14.36	26.47	6.90	0.21	0.50	0.67	0.58
		1.0	14.20	26.72					
		3.0	13.46	27.06					
		6.0	13.62	26.56	7.00	0.16	0.57	2.05	
		9.0	14.04	27.13					
		12.0	13.99	26.68					

Date 26-VI-73  
 H.W. 0632 1854  
 L.W. 0022 1233

D7	1320	0.5	15.52	27.28	6.23	0.49	1.25	7.39	0.41
		1.0	15.48	27.20					
		3.0	14.76	27.19					
		6.0	13.94	27.94	6.30	0.62	1.26	8.48	
		9.0	13.59	28.06					
		12.0	13.20	28.20					

Date 10-VII-73  
 H.W. 0725 1937  
 L.W. 0112 1320

D7	0745	0.5	17.34	26.92	6.44	0.43	0.63	7.60	0.58
		1.0	16.54	27.17					
		3.0	15.57	27.55					
		6.0	14.71	28.24	6.37	0.39	0.60	7.20	
		9.0	13.74	28.46					



Date 24-VII-73  
 H.W. 0458 1726  
 L.W. 1103 2357

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1445	0.5	18.08	27.62	5.95	0.52	2.78	8.48	0.48
		1.0	17.78	27.23					
		3.0	17.30	27.20					
		6.0	16.76	27.58					
		9.0	17.09	27.41					

Date 8-VIII-73  
 H.W. 0646 1904  
 L.W. 0038 1243

D7	1245	0.5	17.68	28.60	6.00	0.69	1.40	7.28	0.58
		1.0	17.67	28.66					
		3.0	17.33	28.42					
		6.0	17.08	28.55					
		9.0	16.64	28.62					

Date 21-VIII-73  
 H.W. 0339 1602  
 L.W. 0943 2231

D7	0750	0.5	17.36	30.14	5.81	0.64	0.81	6.56	0.48				
		1.0	17.22	30.12									
		3.0	17.08	30.07									
		6.0	17.26	29.96									
		9.0	17.16	29.96						5.67	0.86	0.88	2.00
		12.0	17.22	29.82									

Date 14-IX-73  
 H.W. 1144  
 L.W. 0535 1757

D7	1220	0.5	15.15	30.95	5.32	0.68	1.10	5.76	0.72				
		1.0	15.05	31.05									
		3.0	15.31	30.76									
		6.0	14.95	30.72									
		9.0	14.75	30.84						5.46	0.81	1.00	6.64
		12.0	14.78	30.89									

Date 27-IX-73  
 H.W. 1111 2337  
 L.W. 0500 1726

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1240	0.5	14.32	31.37	5.95	0.54	0.20	9.84	0.46
		1.0	14.40	31.22					
		3.0	14.21	31.22					
		6.0	14.35	30.97	5.67	0.90	0.79	9.68	
		9.0	14.35	30.98					
		12.0	14.18	31.03					

Date 10-X-73  
 H.W. 0917 2140  
 L.W. 0307 1529

D7	1630	0.5	12.69	31.90	5.74	0.86	0.06	4.40	0.72
		1.0	12.76	32.01					
		3.0	12.56	32.02					
		6.0	12.52	32.08	5.60	0.86	0.08	4.64	
		9.0	12.61	32.08					
		12.0	12.75	32.15					

Date 31-X-73  
 H.W. 0159 1405  
 L.W. 0752 2033

D7	1100	0.5	11.2*	31.11#	5.74	0.64	0.18	6.72	0.46
		9.0	10.8*	32.24#	5.95	0.56	0.12	6.56	

Date 12-XI-73  
 H.W. 1136  
 L.W. 0523 1804

D7	1030	0.5	7.18	31.72	5.74	2.32	0.95	8.00	0.41
		1.0	7.02	31.60					
		3.0	7.22	31.62					
		6.0	7.30	32.20	5.92	2.32	0.71	7.70	
		9.0	7.62	32.02					
		12.0	7.60	31.90					

Date 29-XI-73  
 H.W. 0132 1335  
 L.W. 0724 2001

D7	1415	0.5	6.20	32.38	6.10	0.86	3.20	16.62	0.37
		1.0	6.36	32.55					
		3.0	6.20	32.52					
		6.0	6.38	32.70	5.69	1.24	8.00	17.86	
		9.0	6.15	32.90					

Date 6-XII-73  
 H.W. 0705 1941  
 L.W. 0047 1330

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1605	0.5	5.72	31.60	6.58	0.34	1.80	17.78	0.48
		1.0	5.58	31.92					
		3.0	5.75	31.90					
		6.0	5.75	31.90	6.48	0.94	2.60	17.62	
		9.0	5.88	31.92					
		12.0	5.40	32.25					

Date 22-XII-73  
 H.W. 0926 2202  
 L.W. 0312 1553

D7	1000	0.5	4.26	28.56	7.18	1.05	1.40	21.74	0.55
		1.0	4.02	28.48					
		3.0	4.52	28.84					
		6.0	4.44	29.25					
		9.0	4.75	29.84					

Date 12-I-74  
 H.W. 0131 1352  
 L.W. 0739 2011

D7	1530	0.5	2.86	30.78	6.48	1.07	2.60	17.62	0.51				
		1.0	2.86	30.78									
		3.0	3.01	31.15									
		6.0	3.35	31.50									
		9.0	3.28	31.78						6.44	0.98	1.80	17.62
		12.0	3.24	31.82									

Date 28-I-74  
 H.W. 0143 1358  
 L.W. 0751 2009

D7	0830	0.5	2.96	29.50	7.07	0.84	4.99	16.12	0.38
		1.0	2.81	29.66					
		3.0	2.90	30.06					
		6.0	3.04	29.85					
		9.0	2.95	30.72					

Date 11-II-74  
 H.W. 0157 1423  
 L.W. 0813 2032

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1340	0.5	1.30	31.86	6.30	0.90	5.72	11.08	0.32
		1.0	1.32	31.86					
		3.0	1.32	32.08					
		6.0	1.46	32.09	6.83	0.72	12.31	11.70	
		9.0	1.46	32.09					
		12.0	1.51	32.00					

Date 25-II-74  
 H.W. 0036 1254  
 L.W. 0645 1901

D7	1500	0.5	1.42	7.28	0.36	1.28	12.40	0.42
		1.0	1.42					
		3.0	1.52					
		6.0	1.52	7.04	0.31	1.37	11.39	
		9.0	1.68					
		12.0	1.68					

Date 14-III-74  
 H.W. 0304 1541  
 L.W. 0930 2140

D7	1315	0.5	2.48	31.88	7.74	0.55	1.55	8.02	0.34
		1.0	2.48	31.83					
		3.0	2.70	32.25					
		6.0	2.50	32.26	7.74	0.46	1.56	7.78	
		9.0	2.90	32.03					
		12.0	2.90	31.90					

Date 29-III-74  
 H.W. 0216 1454  
 L.W. 0843 2056

D7	0830	0.5	2.35	30.00	7.39	0.00	0.75	7.28	0.36
		1.0	2.20	30.00					
		3.0	2.22	30.14					
		6.0	2.44	30.32	7.00	0.04	0.90	7.76	
		9.0	2.30	31.22					
		12.0	2.35	31.65					

Date 12-IV-74  
 H.W. 0227 1506  
 L.W. 0853 2101

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1415	0.5	4.60	30.80	7.28	0.71	5.35	10.26	0.28
		1.0	4.44	31.20					
		3.0	4.20	30.88					
		6.0	3.94	31.42					
		9.0	3.20	31.18					

Date 29-IV-74  
 H.W. 0405 1653  
 L.W. 1034 2300

D7	1330	0.5	9.36	29.12	8.12	0.09	4.25	12.10	0.33				
		1.0	8.50	29.28									
		3.0	8.50	29.50									
		6.0	8.50	29.44									
		9.0	8.48	29.45						7.92	0.48	4.80	11.55
		12.0	8.36	29.60									

Date 17-V-74  
 H.W. 0712 1935  
 L.W. 0103 1320

D7	1100	0.5	11.84	28.91	7.28	0.26	1.00	11.66	0.54				
		1.0	11.38	28.80									
		3.0	11.50	28.80									
		6.0	10.94	28.68									
		9.0	11.03	29.24						7.42	0.13	0.35	9.36
		12.0	10.90	29.18									

Date 31-V-74  
 H.W. 0714 1938  
 L.W. 0102 1321

D7	0730	0.5	10.62	29.54	6.75	0.04	2.55	10.70	0.44				
		1.0	10.72	29.55									
		3.0	10.71	29.50									
		6.0	10.72	29.32									
		9.0	10.71	29.36						6.68	0.04	2.40	10.81
		12.0	10.76	29.36									

Date 12-VI-74  
 H.W. 0338 1615  
 L.W. 0957 2223

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1600	0.5	13.35	31.02	7.21	0.26	1.40	0.00	0.48
		1.0	13.39	30.94					
		3.0	11.96	31.20					
		6.0	11.96	31.20	7.60	0.48	1.80	0.00	
		9.0	11.70	31.38					
		12.0	11.57	31.88					

Date 24-VI-74  
 H.W. 0139 1419  
 L.W. 0802 2024

D7	1030	0.5	15.75	29.62	6.81	0.44	1.05	8.48	0.53
		1.0	15.08	29.67					
		3.0	15.01	29.45	6.72	0.13	0.80	9.68	
		6.0	14.73	29.36					
		9.0	14.59	29.43					

Date 13-VII-74  
 H.W. 0439 1706  
 L.W. 1045 2331

D7	1000	0.5	16.61	29.80	6.16	0.00	2.00	11.36	0.50
		1.0	16.72	29.76					
		3.0	16.73	29.84					
		6.0	15.99	30.02	5.60	0.00	2.80	11.09	
		9.0	15.10	30.47					
		12.0	15.04	30.58					

Date 26-VII-74  
 H.W. 0421 1649  
 L.W. 1029 2315

D7	0845	0.5	16.94	30.86	5.88	0.30	11.40	9.33	0.44
		1.0	16.98	31.04					
		3.0	16.90	30.90					
		6.0	16.84	30.92	5.88	0.44	9.10	10.56	
		9.0	16.70	31.04					
		12.0	16.56	31.00					

Date 11-VIII-74  
 H.W. 0404 1628  
 L.W. 1009 2255

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	SiO <sub>2</sub>	k
D7	1000	0.5	18.97	32.36	6.72	0.10	0.00	10.50	0.45
		1.0	17.83	31.80					
		3.0	17.83	32.01					
		6.0	18.00	32.00	5.88	0.14	0.00	10.21	
		9.0	17.30	31.90					
		12.0	15.58	31.70					

Date 23-VIII-74  
 H.W. 0255 1517  
 L.W. 0900 2141

D7	0800	0.5	19.00	30.14	6.09	0.52	1.65	10.94	0.80
		1.0	18.84	30.05					
		3.0	18.74	30.15					
		6.0	18.62	30.13	5.67	0.56	1.90	7.12	
		9.0	18.66	30.10					
		12.0	18.81	30.20					

Date 6-IX-74  
 H.W. 0116 1330  
 L.W. 0720 1949

D7	0800	0.5	16.05	30.71	4.80	0.95	2.00	7.13	0.96
		1.0	16.10	30.81					
		3.0	16.00	30.90					
		6.0	15.78	30.92	5.00	0.66	1.70	9.58	
		9.0	15.65	30.88					
		12.0	15.52	30.92					

Date 20-IX-74  
 H.W. 0134 1352  
 L.W. 0738 2015

D7	0745	0.5	15.89	30.53	5.74	1.17	3.34	14.24	0.72
		1.0	15.90	30.45					
		3.0	15.72	30.54					
		6.0	15.76	30.66	4.90	1.35	1.42	14.39	
		9.0	15.36	30.57					

Date 8-X-74  
 H.W. 0323 1541  
 L.W. 0923 2211

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	0730	0.5	12.35	30.13	2.38	1.00	1.82		9.49	0.39
		1.0	12.39	29.96						
		3.0	12.39	29.95						
		6.0	12.41	30.05						
		9.0	12.42	30.05						
		12.0	12.50	30.05						
					3.92	1.87	3.34	12.11		

Date 22-X-74  
 H.W. 0346 1559  
 L.W. 0945 2228

D7	0900	0.5	9.00	30.81	6.48	0.86	1.96	0.33	7.72	0.39
		1.0	8.90	30.81						
		3.0	8.92	30.69						
		6.0	9.15	30.74						
		9.0	9.30	31.05						
		12.0	9.18	31.05						
					6.34	0.54	3.65	1.59	7.14	

Date 6-XI-74  
 H.W. 0312 1528  
 L.W. 0912 2154

D7	1425	0.5	9.20	31.31	2.94	0.36	1.39	0.04	3.63	0.22
		1.0	9.20	31.22						
		3.0	9.46	30.92						
		6.0	9.46	31.11						
		9.0	9.34	30.68						
		12.0	9.34	30.88						
					4.77	0.55	4.07	2.47	5.74	

Date 20-XI-74  
 H.W. 0304 1513  
 L.W. 0904 2141

D7	1500	0.5	7.30	31.42	1.49	0.19	1.28	0.35	13.39	0.38
		1.0	7.22	31.32						
		3.0	7.58	31.46						
		6.0	7.33	31.54						
		9.0	7.36	31.76						
		12.0	7.46	31.95						
					1.53	0.95	2.98	0.30	18.76	



Date 11-XII-74  
 H.W. 0854 2134  
 L.W. 0238 1523

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1430	0.5	5.05	30.05	6.83	0.46	6.39	0.02	10.26	0.44		
		1.0	5.50	30.15								
		3.0	5.40	30.15								
		6.0	5.40	30.13	6.93	0.46	9.73	0.04	11.19			
		9.0	5.50	30.00								
		12.0	5.55	29.72								

Date 30-XII-74  
 H.W. 1124  
 L.W. 0509 1750

D7	0930	0.5	3.92	30.94	6.58	0.55	4.70	0.27	14.31	0.32		
		1.0	3.68	30.88								
		3.0	3.95	31.01								
		6.0	4.02	30.99	6.79	0.50	6.16	0.33	13.28			
		9.0	4.10	31.14								
		12.0	4.20	31.09								

Date 14-I-75  
 H.W. 0003 1208  
 L.W. 0558 1828

D7	1030	0.5	3.60	30.71	7.00	0.63	4.34	0.09	1.87	0.25	18.56	0.31	
		1.0	3.47	30.71									
		3.0	3.48	30.91									
		6.0	3.48	30.91	7.10	0.50	3.82	0.09	2.79	0.23			14.76
		9.0	3.49	30.73									
		12.0	3.53	30.73									

Date 28-I-75  
 H.W. 1109 2343  
 L.W. 0455 1731

D7	1620	0.5	1.41	29.58	7.07	0.63	1.72	0.27	0.81		10.30	0.31
		1.0	1.41	29.58								
		3.0	1.50	29.77								
		6.0	1.42	29.86	7.04	0.85	2.00	0.27	0.85	13.58		
		9.0	1.55	30.10								
		12.0	1.65	29.96								

Date 11-II-75  
 H.W. 1112 2337  
 L.W. 0503 1729

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1500	0.5	0.40	29.68	8.20	0.56	8.92	0.03	0.11	0.06	8.82	0.21
		1.0	0.40	29.68								
		3.0	0.40	30.04								
		6.0	0.39	29.94	8.10	0.56	8.76	0.02	0.11	0.06	8.60	
		9.0	0.38	29.94								
		12.0	0.34	29.95								

Date 27-II-75  
 H.W. 1144  
 L.W. 0531 1758

D7	1345	0.5	2.72	28.75	7.98	0.09	4.80	0.02	0.40	1.33	6.29	0.46
		1.0	2.80	28.73								
		3.0	2.86	28.58								
		6.0	2.90	28.64	7.88	0.99	3.18	0.02	0.40	0.67	5.67	
		9.0	2.87	28.36								
		12.0	2.96	28.78								

Date 13-III-75  
 H.W. 1121 2337  
 L.W. 0513 1729

D7	0900	0.5	2.78	30.58	8.47	0.14	1.31	0.03	0.09	0.57	0.16	0.29
		1.0	2.82	30.90								
		3.0	2.85	30.88								
		6.0	2.90	30.80	8.40	0.33	1.19	0.05	2.00	0.62	1.01	
		9.0	3.04	30.80								

Date 28-III-75  
 H.W. 1127 2347  
 L.W. 0515 1734

D7	1545	0.5	3.20	30.36	7.60	0.05	1.84	0.04	0.04	1.70	1.98	0.48
		1.0	3.21	30.40								
		3.0	3.26	30.42								
		6.0	3.41	30.50	7.56	0.09	1.64	0.06	0.11	1.35	2.93	
		9.0	3.30	30.67								
		12.0	3.35	30.70								

Date 10-IV-75  
 H.W. 1020 2232  
 L.W. 0411 1624

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1100	0.5	4.51	29.05	7.56	0.53	3.64	0.49	0.59	0.99	9.49	0.25
		1.0	4.70	29.05								
		3.0	4.20	29.85								
		6.0	4.20	29.85	7.71	0.09	4.26	0.63	0.59	1.30	9.32	
		9.0	4.22	30.20								
		12.0	4.22	30.15								

Date 29-IV-75  
 H.W. 0102 1342  
 L.W. 0730 1939

D7	1420	0.5	7.52	29.10	8.02	0.00	1.81	0.02	6.46	4.06	3.02	0.55
		1.0	7.55	29.08								
		3.0	7.92	29.10								
		6.0	8.10	28.81	8.00	1.07	2.45	0.26	5.94	8.69	0.08	
		9.0	7.91	28.65								

Date 13-V-75  
 H.W. 1221  
 L.W. 0611 1815

D7	1545	0.5	10.29	29.46	7.03	0.49	0.59	0.00	1.80	5.01	4.20	0.37
		1.0	10.45	29.32								
		3.0	10.15	29.60								
		6.0	10.04	29.55	7.17	0.39	1.76	0.00	0.87	3.40	5.57	
		9.0	10.31	29.40								

Date 28-V-75  
 H.W. 0041 1320  
 L.W. 0706 1913

D7	1445	0.5	12.81	27.87	6.54	0.54	0.92	0.04	0.90	1.22	8.25	0.44
		1.0	12.64	27.90								
		3.0	12.35	27.81								
		6.0	12.10	27.80	6.83	0.10	0.88	0.04	0.93	0.87	8.92	
		9.0	12.08	27.89								
		12.0	12.08	28.05								

Date 11-VI-75  
 H.W. 1200  
 L.W. 0550 1755

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1300	0.5	13.35	29.97	6.30	0.12	0.06	0.02	5.09	1.14	5.70	0.45
		1.0	13.20	30.00								
		3.0	12.35	29.88								
		6.0	12.00	30.35								
		9.0	11.74	30.45	6.30	0.78	0.39	0.02	2.90	2.05	13.50	
		12.0	11.72	30.70								

Date 24-VI-75  
 H.W. 1127 2335  
 L.W. 0518 1723

D7	1440	0.5	16.60	28.17	6.44	0.00	2.76	0.05	2.61	0.83	2.40	0.53
		1.0	16.13	28.06								
		3.0	15.78	28.25								
		6.0	15.00	28.62								
		9.0	14.64	28.68	6.35	0.00	0.29	0.00	0.92	0.94	1.70	
		12.0	14.82	28.72								

Date 9-VII-75  
 H.W. 1053 2303  
 L.W. 0443 1648

D7	1330	0.5	16.43	29.76	5.45	0.47	0.86	0.24	2.95	1.41	6.29	0.46
		1.0	16.11	29.76								
		3.0	16.33	29.68								
		6.0	16.20	29.68								
		9.0	16.22	29.78	5.66	0.13	1.53	0.26	1.02	1.05	5.05	

Date 22-VII-75  
 H.W. 1029 2235  
 L.W. 0419 1624

D7	1315	0.5	18.07	30.30	5.70	0.84	3.00	0.04	2.25	2.59	6.73	0.72
		1.0	17.98	---								
		3.0	18.10	30.58								
		6.0	17.78	30.80								
		9.0	15.72	30.62	5.84	1.59	2.88	0.07	1.99	1.66	6.07	
		12.0	15.10	30.90								

Date 6-VIII-75  
 H.W. 0939 2155  
 L.W. 0329 1537

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1000	0.5	17.18	30.44	5.67	1.05	3.62	0.00	0.00	0.68	7.62	0.48
		1.0	16.70	29.96								
		3.0	16.50	31.56								
		6.0	16.52	31.55	5.74	0.47	3.75	0.00	0.00	0.90	8.06	
		9.0	16.15	31.75								
		12.0	16.01	31.74								

Date 19-VIII-75  
 H.W. 0924 2137  
 L.W. 0313 1523

D7	1600	0.5	18.27	31.08	5.62	1.18	0.28	0.07	3.54	8.44	7.23	0.58
		1.0	18.12	31.38								
		3.0	18.15	31.36								
		6.0	18.22	31.33	5.60	1.38	0.36	0.04	4.63	0.18	5.79	
		9.0	17.83	31.22								
		12.0	17.80	31.37								

Date 11-IX-75  
 H.W. 0253 1516  
 L.W. 0857 2143

D7	1210	0.5	17.00	29.18	5.67	0.98	2.28	0.44	4.63	1.41	12.59	0.65
		1.0	17.00	29.12								
		3.0	17.20	28.62								
		6.0	16.74	29.24	5.60	0.98	2.08	0.42	2.34	0.85	16.66	
		9.0	16.78	29.25								
		12.0	16.75	29.24								

Date 25-IX-75  
 H.W. 0127 1339  
 L.W. 0726 2000

D7	0840	0.5	13.91	30.61	5.75	1.13	2.25	0.46	4.11	0.75	12.54	0.55
		1.0	13.90	30.60								
		3.0	13.90	30.61								
		6.0	13.61	30.65	5.67	1.18	2.22	0.49	1.77	1.88	15.55	
		9.0	13.60	30.70								
		12.0	13.50	30.60								

Date 8-X-75  
 H.W. 0041 1259  
 L.W. 0645 1923

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k							
D7	1430	0.5	13.13	30.04	6.02	0.89	1.61	0.30	0.93	3.55	6.52	0.45							
		1.0	13.11	30.01															
		3.0	13.00	30.00															
		6.0	13.00	30.00															
		9.0	13.10	29.95									6.16	0.93	3.64	0.33	1.82	3.23	6.33
		12.0	13.05	30.10															

Date 22-X-75  
 H.W. 1157  
 L.W. 0548 1817

D7	1400	0.5	12.23	29.88	6.16	0.85	1.27	0.36	0.09	0.10	5.96	0.34							
		1.0	12.22	29.92															
		3.0	12.22	29.91															
		6.0	12.36	29.88															
		9.0	12.37	29.90									6.30	0.80	2.15	0.22	0.04	1.15	5.40
		12.0	12.50	29.85															

Date 6-XI-75  
 H.W. 0025 1237  
 L.W. 0624 1905

D7	1430	0.5	9.94	30.56	5.89	1.36	1.28	0.22	0.05	0.04	13.25	0.33							
		1.0	9.91	30.60															
		3.0	9.91	30.60															
		6.0	9.90	30.60															
		9.0	9.82	30.65									5.83	1.36	1.54	0.24	0.00	0.09	13.52
		12.0	9.71	30.72															

Date 19-XI-75  
 H.W. 1055 2327  
 L.W. 0445 1718

D7	1545	0.5	8.30	32.00	6.09	1.27	5.20	0.39	3.40	0.27	5.06	0.48							
		1.0	8.32	32.04															
		3.0	8.30	32.04															
		6.0	8.85	32.19															
		9.0	8.72	32.18									5.97	1.23	5.09	0.37	4.00	0.84	10.65
		12.0	8.50	32.20															

Date 3-XII-75  
 H.W. 1042 2321  
 L.W. 0427 1709

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1545	0.5	6.32	30.68	6.30	0.57	1.92	0.23	0.50	0.41	13.99	0.96
		1.0	6.48	30.64								
		3.0	6.18	30.74								
		6.0	6.50	30.68								
		9.0	6.20	30.72	6.17	0.61	1.80	0.21	0.54	0.32	12.80	
		12.0	6.18	30.80								

Date 17-XII-75  
 H.W. 0950 2224  
 L.W. 0339 1616

D7	0750	0.5	4.45	29.95	6.36	0.96	1.83	0.40	0.00	0.14	17.70	0.41
		1.0	4.45	29.92								
		3.0	4.45	29.79								
		6.0	4.50	29.80								
		9.0	4.40	29.80	6.37	1.09	2.44	0.44	0.00	0.27	18.42	
		12.0	4.30	29.62								

Date 7-I-76  
 H.W. 0243 1456  
 L.W. 0848 2112

D7	0810	0.5	0.82	27.34	7.59	1.22	0.64	0.06	2.21	1.54	15.86	0.35
		1.0	0.75	27.23								
		3.0	1.04	27.82								
		6.0	1.05	27.80								
		9.0	1.10	27.90	7.37	1.18	0.07	0.08	1.66	1.58	15.96	
		12.0	1.37	28.33								

Date 23-I-76  
 H.W. 0324 1551  
 L.W. 0941 2202

D7	1308	0.5	0.10	28.40	6.83	0.33	0.66	0.06	0.68	1.52	14.08	0.31
		1.0	0.10	28.43								
		3.0	0.21	28.50								
		6.0	0.20	28.75								
		9.0	0.60	28.88	6.87	0.28	0.60	0.06	0.71	1.29	13.50	
		12.0	0.60	28.91								

Date 4-II-76  
 H.W. 0123 1336  
 L.W. 0728 1950

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	0900	0.5	0.00	28.86	7.91	0.66	4.18	0.20	1.71	3.78	9.43	0.65
		1.0	0.00	29.10								
		3.0	0.00	29.40								
		6.0	0.10	30.68								
		9.0	0.30	30.75	7.59	0.83	5.08	0.22	1.67	2.83	9.72	
		12.0	0.20	31.68								

Date 18-II-76  
 H.W. 0026 1249  
 L.W. 0636 1901

D7	1500	0.5	1.61	31.30	7.40	0.47	7.65	0.31	0.38	0.18	12.68	0.34
		1.0	1.10	31.52								
		3.0	1.40	31.52								
		6.0	1.70	31.89								
		9.0	1.70	31.88	7.24	0.52	5.74	0.23	0.41	0.14	11.05	
		12.0	1.70	31.87								

Date 3-III-76  
 H.W. 0016 1231  
 L.W. 0624 1840

D7	1330	0.5	1.40	28.90	7.49	0.14	6.15	0.23	0.11	0.18	11.70	0.33
		1.0	1.40	29.00								
		3.0	1.52	29.00								
		6.0	1.40	29.43								
		9.0	1.78	29.55	7.37	0.14	10.72	0.37	0.41	0.92	12.29	
		12.0	1.80	29.81								

Date 19-III-76  
 H.W. 0054 1326  
 L.W. 0713 1931

D7	0910	0.5	1.00	28.25	7.07	0.14	1.74	0.44	0.15	0.09	4.90	0.36
		1.0	1.30	28.55								
		3.0	1.31	29.05								
		6.0	1.58	29.15								
		9.0	1.65	29.50	7.27	0.98	1.56	0.42	0.11	0.18	6.80	
		12.0	1.60	29.48								



Date 6-IV-76  
 H.W. 0253 1530  
 L.W. 0917 2130

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	0925	0.5	5.04	24.85	7.17	0.14	1.27	0.00	1.24	1.79	5.50	0.46
		1.0	4.90	25.32								
		3.0	4.90	25.80								
		6.0	4.40	25.81								
		9.0	4.45	27.00	7.07	0.37	1.23	0.02	1.13	0.97	5.86	
		12.0	4.41	27.30								

Date 21-IV-76  
 H.W. 0427 1714  
 L.W. 1055 2321

D7	1345	0.5	9.41	25.90	6.96	0.00	0.60	0.16	1.97	0.45	10.07	0.36
		1.0	8.95	25.75								
		3.0	9.04	25.75								
		6.0	9.00	25.70								
		9.0	9.43	25.62	7.03	0.00	6.00	0.08	1.72	0.45	15.36	
		12.0	9.48	25.50								

Date 7-V-76  
 H.W. 0414 1656  
 L.W. 1038 2303

D7	1420	0.5	8.26	31.15	6.96	0.86	0.80	0.06	1.27	0.35	8.48	
		1.0	8.08	31.36								
		3.0	8.05	31.35								
		6.0	7.90	31.52								
		9.0	7.65	31.50	6.82	0.90	1.17	0.04	2.46	1.54	9.13	
		12.0	7.38	31.92								

Date 25-V-76  
 H.W. 0841 2055  
 L.W. 0233 1441

D7	1250	0.5	10.36	29.25	6.50	0.28	1.37	0.06	0.79	0.00	3.60	0.45
		1.0	10.68	29.32								
		3.0	10.75	29.32								
		6.0	10.51	29.45								
		9.0	10.12	29.40	6.45	0.47	1.54	0.18	0.75	0.00	5.08	
		12.0	9.80	29.91								

Date 8-VI-76  
 H.W. 0700 1927  
 L.W. 0051 1308

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	0630	0.5	13.10	29.35	6.15	0.05	0.78	0.00	1.92	1.87	2.50	0.40
		1.0	12.95	29.81								
		3.0	12.70	29.72								
		6.0	12.61	30.15								
		9.0	12.41	30.02								
		12.0	12.40	30.00								

Date 22-VI-76  
 H.W. 0709 1929  
 L.W. 0103 1311

D7	1414	0.5	16.82	29.04	5.96	0.00	1.94	0.04	0.31	1.82	0.64	0.48
		1.0	16.81	29.11								
		3.0	16.11	29.12								
		6.0	15.51	29.41								
		9.0	14.48	29.80								
		12.0	13.90	29.81								

Date 6-VII-76  
 H.W. 0539 1809  
 L.W. 1146

D7	0510	0.5	16.37	29.60	6.02	0.44	0.56	0.21	0.00	4.44	5.38
		1.0	16.30	29.90							
		3.0	16.00	29.98							
		6.0	15.60	29.85							
		9.0	15.70	29.86							
		12.0	15.40	29.88							

Date 23-VII-76  
 H.W. 0812 2022  
 L.W. 0203 1404

D7	1643	0.5	17.79	29.83	5.40	0.55	2.55	0.00	3.08	0.59	2.75	0.63
		1.0	17.62	29.62								
		3.0	17.85	29.82								
		6.0	17.37	30.00								
		9.0	16.74	30.20								

Date 6-VIII-76  
 H.W. 0745 2003  
 L.W. 0132 1345

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k							
D7	1355	0.5	17.85	29.83	5.62	0.46	0.44	0.00	0.00	1.82	0.00	0.72							
		1.0	17.63	30.28															
		3.0	17.73	30.20															
		6.0	17.58	30.10															
		9.0	17.56	30.12									5.63	0.00	0.00	0.00	0.00	0.91	0.84
		12.0	17.48	30.15															

Date 23-VIII-76  
 H.W. 0907 2118  
 L.W. 0257 1506

D7	1330	0.5	19.78	29.72	5.52	0.92	0.24	0.00	0.91	1.00	4.58	0.58							
		1.0	19.78	29.78															
		3.0	20.02	29.63															
		6.0	19.49	29.86															
		9.0	19.93	29.57									5.40	0.46	1.22	0.00	0.45	0.00	10.08
		12.0	19.59	29.62															

Date 7-IX-76  
 H.W. 1007 2225  
 L.W. 0358 1612

D7	1430	0.5	17.20	30.54	5.74	1.38	3.78	0.20	2.00	2.00	5.05	0.53							
		1.0	17.30	30.50															
		3.0	17.30	30.20															
		6.0	16.76	30.45															
		9.0	16.86	30.42									5.74	0.92	4.00	0.20	1.75	0.67	2.02
		12.0	16.86	30.42															

Date 23-IX-76  
 H.W. 1000 2224  
 L.W. 0351 1614

D7	0635	0.5	15.95	31.68	5.81	0.00	0.25	0.00	0.00	0.00	6.72	0.72							
		1.0	15.90	31.78															
		3.0	15.75	31.80															
		6.0	15.85	31.98															
		9.0	15.69	31.92									5.95	0.00	1.00	0.00	0.00	4.00	10.08
		12.0	15.81	32.00															

Date 7-X-76  
 H.W. 1022 2242  
 L.W. 0412 1633

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>	Urea	SiO <sub>2</sub>	k
D7	1500	0.5	14.60	32.02	5.91	0.46	1.25	0.00	2.00	12.50	6.09	0.36
		1.0	14.60	32.02								
		3.0	14.60	32.02								
		6.0	14.40	32.04	5.77	0.46	1.46	0.20	1.00	7.50	6.09	
		9.0	14.40	32.04								
		12.0	14.60	32.04								

Date 22-X-76  
 H.W. 0932 2203  
 L.W. 0317 1552

D7	0830	0.5	10.90	30.79	5.77	2.50	5.71	0.58			14.43	0.48
		1.0	10.94	30.96								
		3.0	10.70	30.73								
		6.0	10.70	30.97	5.91	2.00	6.19	0.38			14.43	
		9.0	10.86	30.81								
		12.0	11.00	30.91								

Date 5-XI-76  
 H.W. 0953 2220  
 L.W. 0342 1611

D7	1200	0.5	8.45	31.58	6.37	1.29	6.59	0.21			19.62	0.31
		1.0	8.30	31.46								
		3.0	8.40	31.98								
		6.0	8.45	31.67	6.12	1.29	7.50	0.21			20.48	
		9.0	8.62	31.77								
		12.0	8.60	31.77								

Date 18-XI-76  
 H.W. 0721 1951  
 L.W. 0103 1342

D7	1435	0.5	5.75	28.29	5.53	1.20	6.20	0.80			26.96	0.36
		1.0	5.84	28.36								
		3.0	5.90	28.26								
		6.0	6.12	28.49	5.88	1.20	6.60	1.00			37.12	
		9.0	5.98	28.63								
		12.0	6.16	28.79								

Date 8-XII-76  
 H.W. 1149  
 L.W. 0535 1811

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	1200	0.5	3.46	29.60	6.12	1.09	10.00	0.00	12.49	0.36
		1.0	3.20	29.60						
		3.0	3.52	29.60						
		6.0	3.61	29.90						
		9.0	3.71	30.00						
		12.0	3.71	30.00						
D7	1200	0.5	3.46	29.60	5.77	1.09	10.42	0.00	13.29	
		1.0	3.20	29.60						
		3.0	3.52	29.60						
		6.0	3.61	29.90						
		9.0	3.71	30.00						
		12.0	3.71	30.00						

Date 17-XII-76  
 H.W. 0655 1931  
 L.W. 0033 1321

D7	1600	0.5	0.96	29.76	6.75	1.50	8.75	0.65	18.28	0.42
		1.0	1.11	29.76						
		3.0	1.16	29.53						
		6.0	1.28	29.77						
		9.0	1.45	29.86						
		12.0	1.53	30.00						
D7	1600	0.5	0.96	29.76	6.79	1.00	9.50	0.87	18.29	
		1.0	1.11	29.76						
		3.0	1.16	29.53						
		6.0	1.28	29.77						
		9.0	1.45	29.86						
		12.0	1.53	30.00						

Date 3-I-77  
 H.W. 0932 2206  
 L.W. 0318 1558

D7	1430	0.5	0.00	33.42	7.03	1.80	10.23	0.43	16.13	0.24
		1.0	0.00	33.72						
		3.0	0.00	33.48						
		6.0	0.00	33.84						
		9.0	0.00	33.57						
		12.0	0.00	33.33						
D7	1430	0.5	0.00	33.42	8.40	1.20	10.68	0.65	16.14	
		1.0	0.00	33.72						
		3.0	0.00	33.48						
		6.0	0.00	33.84						
		9.0	0.00	33.57						
		12.0	0.00	33.33						

Date 20-I-77  
 H.W. 1120 2355  
 L.W. 0507 1743

D7	1020	0.5	0.00		7.21	0.80	12.89	0.45	2.99	0.29
		1.0	0.00							
		3.0	0.00							
		6.0	0.00							
		9.0	0.00							
		12.0	0.00							
D7	1020	0.5	0.00		7.28	0.80	13.68	0.68	3.84	
		1.0	0.00							
		3.0	0.00							
		6.0	0.00							
		9.0	0.00							
		12.0	0.00							

Date 3-II-77  
 H.W. 1021 2250  
 L.W. 0408 1643

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	1515	0.5	0.00		7.42	0.80	11.56	0.60	10.98	0.24
		1.0	0.00							
		3.0	0.00							
		6.0	0.00							
		9.0	0.00		7.42	0.80	9.33	0.60	10.24	
		12.0	0.00							

Date 17-II-77  
 H.W. 1010 2251  
 L.W. 0406 1640

D7	0940	0.5	0.00		7.83	0.80	8.51	0.60	9.26	0.22
		1.0	0.00							
		3.0	0.00							
		6.0	0.00							
		9.0	0.00		8.12	1.20	9.57	0.80	9.26	
		12.0	0.00							

Date 4-III-77  
 H.W. 0950 2218  
 L.W. 0339 1609

D7	1530	0.5	0.00	31.71	8.19	2.57	8.54	0.62	25.35	0.29
		1.0	0.00	31.40						
		3.0	0.02	31.08						
		6.0	0.02	31.72						
		9.0	0.20	31.50	8.05	2.14	9.17	0.42	25.34	
		12.0	0.02	31.82						

Date 21-III-77  
 H.W. 1208  
 L.W. 0559 1814

D7	0905	0.5	2.05	27.55	8.47	0.60	5.11	0.40	12.53	0.48
		1.0	2.05	28.10						
		3.0	1.74	28.33						
		6.0	1.97	28.61						
		9.0	1.94	29.14	8.30	1.20	6.00	0.60	11.75	
		12.0	1.95	29.90						

Date 7-IV-77  
 H.W. 0047 1321  
 L.W. 0709 1926

Station	Time	Depth	Temp.	Sai.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k					
D7	1540	0.5	3.91	29.84	7.56	0.43	8.00	0.43	10.81	0.41					
		1.0	3.77	29.64											
		3.0	3.34	30.58											
		6.0	3.44	31.22											
		9.0	3.28	31.41							7.63	0.43	12.00	0.43	12.30
		12.0	3.29	31.40											

Date 21-IV-77  
 H.W. 0027 1256  
 L.W. 0647 1853

D7	1350	0.5	6.81	29.00	7.77	1.29	3.33	0.22	2.96	0.36					
		1.0	6.96	28.70											
		3.0	6.70	29.13											
		6.0	6.03	29.25											
		9.0	5.54	29.16							8.12	0.43	4.49	0.22	4.74
		12.0	5.58	29.21											

Date 6-V-77  
 H.W. 0029 1308  
 L.W. 0654 1910

D7	1408	0.5	7.48	29.12	5.95	0.60	1.25	0.20	8.05	0.41					
		1.0	7.06	29.40											
		3.0	6.70	29.35											
		6.0	6.49	29.46											
		9.0	6.64	29.30							7.42	0.60	2.00	0.20	7.06
		12.0	6.34	29.60											

Date 18-V-77  
 H.W. 1122 2325  
 L.W. 0513 1716

D7	1410	0.5	9.90	28.76	6.96	0.25	2.66	0.00	4.02	0.44					
		1.0	9.80	27.87											
		3.0	9.34	29.28											
		6.0	8.60	28.10											
		9.0	8.86	28.22							6.96	0.00	2.98	0.00	4.02
		12.0	8.74	28.38											

Date 6-VI-77  
 H.W. 0206 1448  
 L.W. 0832 2053

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k		
D7	1420	0.5	10.45	28.78	6.29	0.00	1.17	0.00	5.42	0.51		
		1.0	10.38	29.13								
		3.0	10.30	28.92								
				6.0	9.96	29.10						
				9.0	9.90	29.20	6.72	0.92	1.17	0.00	6.97	
				12.0	9.92	29.16						

Date 21-VI-77  
 H.W. 0128 1404  
 L.W. 0751 2003

D7	1435	0.5	13.17	28.60	5.95	0.46	0.58	0.00	4.64	0.36		
		1.0	13.08	28.60								
		3.0	12.77	28.70								
				6.0	12.58	28.71						
				9.0	12.42	28.72	6.19	0.23	0.80	0.00	3.09	
				12.0	12.42	28.98						

Date 7-VII-77  
 H.W. 0336 1612  
 L.W. 0952 2226

D7	1418	0.5	14.92	29.05	6.58	0.00	0.19	0.00	3.91	0.41		
		1.0	14.90	29.05								
		3.0	14.24	28.78								
				6.0	14.20	29.02						
				9.0	14.12	28.72	6.58	0.00	0.00	0.23	2.79	
				12.0	14.26	28.72						

Date 22-VII-77  
 H.W. 0235 1504  
 L.W. 0849 2118

D7	1326	0.5	16.28	31.70	6.75	0.00	0.00	0.00	2.03	0.58		
		1.0	16.62	31.95								
		3.0	16.46	32.06								
				6.0	16.20	31.50						
				9.0	15.97	31.68	6.79	0.00	0.00	0.22	4.06	
				12.0	15.88	32.00						



Date 8-VIII-77  
 H.W. 0553 1813  
 L.W. 1155

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	1420	0.5	18.20	31.67	5.74	0.46	0.54	0.00	6.08	0.48
		1.0	17.88	31.75						
		3.0	16.50	31.70						
		6.0	16.28	31.58	5.42	0.92	0.83	0.00	8.11	
		9.0	15.70	31.48						
		12.0	15.80	31.62						

Date 24-VIII-77  
 H.W. 0626 1850  
 L.W. 0013 1229

D7	0735	0.5	15.50	31.53	5.56	0.86	0.77	0.21	4.05	0.41
		1.0	15.45	31.56						
		3.0	15.39	31.72						
		6.0	15.38	31.66	5.52	0.86	1.56	0.21	2.03	
		9.0	15.09	31.52						
		12.0	15.05	31.63						

Date 7-IX-77  
 H.W. 0607 1824  
 L.W. 1205

D7	0805	0.5	15.86	31.84	5.70	1.20	1.35	0.48	0.00	0.46
		1.0	15.82	31.75						
		3.0	15.62	31.84						
		6.0	15.62	31.76	5.46	0.00	0.98	0.24	0.00	
		9.0	15.70	31.82						
		12.0	15.32	31.74						

Date 23-IX-77  
 H.W. 0725 1948  
 L.W. 0108 1330

D7	0800	0.5	12.81	31.70	5.21	0.82	2.45	0.00	6.92	0.48
		1.0	12.72	31.64						
		3.0	12.66	31.84						
		6.0	12.57	31.86	5.25	0.54	2.95	0.20	0.00	
		9.0	12.38	31.82						
		12.0	12.46	31.77						

Date 7-X-77  
 H.W. 0618 1834  
 L.W. 0002 1219

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	1435	0.5	13.31	31.18	6.65	1.00	1.50	0.20	7.78	0.48
		1.0	13.00	31.24						
		3.0	12.90	31.36						
		6.0	12.72	31.57	6.16	1.00	2.38	0.40	4.44	
		9.0	12.68	31.64						
		12.0	12.18	31.83						

Date 24-X-77  
 H.W. 0857 2123  
 L.W. 0244 1511

D7	0810	0.5	9.20	29.25	4.86	0.07	3.86	0.45	13.33	0.36
		1.0	9.50	29.92						
		3.0	9.50	30.10						
		6.0	10.00	30.45	5.42	0.00	4.12	0.45	14.44	
		9.0	10.10	30.65						
		12.0	10.10	30.80						

Date 8-XI-77  
 H.W. 0759 2027  
 L.W. 0145 1417

D7	0900	0.5	9.75	29.77	6.16	0.69	2.80	0.29	9.09	0.58
		1.0	9.43	29.76						
		3.0	9.77	30.07						
		6.0	9.91	30.40	6.09	0.69	4.12	0.29	9.09	
		9.0	9.88	30.41						
		12.0	9.98	30.55						

Date 22-XI-77  
 H.W. 0836 2105  
 L.W. 0219 1454

D7	0850	0.5	8.44	31.80	6.09	0.55	5.83	0.40	13.33	0.37
		1.0	8.39	29.48						
		3.0	8.42	29.95						
		6.0	8.44	30.52	5.95	1.09	6.50	0.40	8.89	
		9.0	8.40	30.96						
		12.0	8.55							

Date 8-XII-77  
H.W. 0815 2049  
L.W. 0157 1439

Station	Time	Depth	Temp.	Sal.	O <sub>2</sub>	PO <sub>4</sub>	NO <sub>3</sub>	NO <sub>2</sub>	SiO <sub>2</sub>	k
D7	1000	0.5	4.85	31.70	6.40	1.09	5.78	0.00	10.00	0.41
		1.0	4.76	31.00						
		3.0	4.88	31.65						
		6.0	4.80	29.76						
		9.0	4.98	31.74	6.47	1.64	6.36	0.19	9.17	
		12.0	4.98	31.82						

Date 20-XII-77  
H.W. 0715 1948  
L.W. 0057 1339

D7	1410	0.5	4.28	30.92	7.28	0.71	5.00	0.00	4.17	0.48
		1.0	4.56	30.55						
		3.0	4.75	30.22						
		6.0	4.80	31.03						
		9.0	5.53	31.72	7.28	1.06	6.38	0.20	2.50	
		12.0	5.34	31.24						