66-6

ENVIRONMENTAL OBSERVATIONS ON CONTINENTAL SHELF NOVA SCOTIA TO LONG ISLAND, MARCH 1966

ALBATROSS IV CRUISE 66-2

John B. Colton, Robert R. Marak, and Samuel R. Nickerson

DOCUMENT COLLECTION

Bureau of Commercial Fisheries
Biological Laboratory
Woods Hole, Massachusetts
Laboratory Reference No. 66-6
3 May 1966

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Introduction

This report lists results obtained during an environmental survey of Continental Shelf waters in an area bounded by longitudes 64°30' W and 72°30' W (Albatross IV Cruise 66-2, 2-14 March 1966). This is the seventh of a series of cruises being undertaken on a quarterly basis to measure the seasonal and annual variations in temperature, salinity, dissolved oxygen, and chlorophyll. The cruise track and station and section locations are shown in Figure 1.

Procedures

A surface temperature reading, bathythermograph lowering, and Nansen bottle cast were made at each station. The Nansen bottle depths were 1, 10, 20, 30, 40, 50, 75, 100, 150, 200, and 250 meters. A bathythermograph lowering was made midway between stations separated by a distance greater than 15 miles. Five drift bottles were released at all stations and 5 sea-bed drifters were released at stations shoaler than 275 meters. Dissolved oxygen determinations were made at sea. All other determinations were made ashore.

Methods

Temperature

Temperature was measured with a bucket thermometer and bathythermographs.

Salinity

Salinity was determined by electrical conductivity using a Hytech Model 621 Salinometer.

Dissolved Oxygen

Dissolved oxygen was determined polarographically (Carritt and Kanwisher, 1959) using a Jarrell Ash Model 26-601 dissolved oxygen analyzer.

Chlorophyll

Chlorophyll (total pigment) within the upper 100 meters of the water column was determined by fluorescence according to the method of Yentsch and Menzel (1963) from frozen extracts of 125 ml. sea water. The specific absorption value (k) used was 66.7 (Richards, 1952). A G.K. Turner Model 110 fluorometer was used for these determinations.

Data

Values of all properties measured are tabulated by station and depth in Table 1. In addition, the bottom temperature is included where obtained.

The surface temperature and bottom temperature distributions are shown in Figure 2. The surface salinity and density distributions are shown in Figure 3. Vertical profiles of temperature, salinity, dissolved oxygen, chlorophyll, and density for sections A^1 through J are presented in Figures 4-10.

References

Carritt, D. E. and J. W. Kanwisher (1959). An electrode system for measuring dissolved oxygen. Analytical Chemistry, 31: 5-9.

Richards, F. A. (1952). The estimation and characterization of plankton populations by pigment analysis. I. The absorption spectra of some pigments in diatoms, dinoflagellates, and brown algae. J. Mar. Res., 11: 147-155.

Yentsch, C. S. and D. W. Menzel (1963). A method for the determination of phytoplankton chlorophyll and phaeophytin by fluorescence. Deep-Sea Res., 10: 221-231.

5/3/66

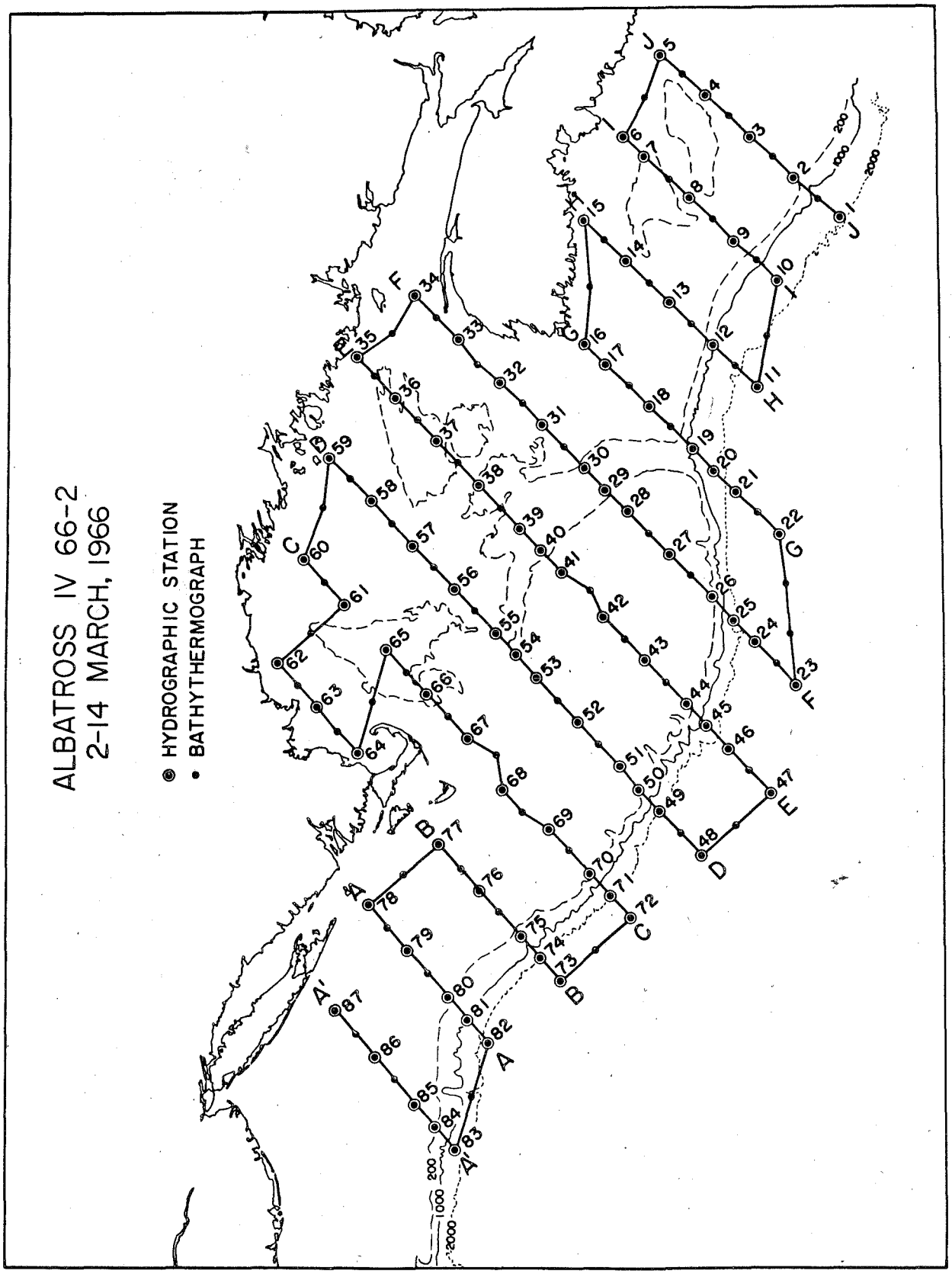
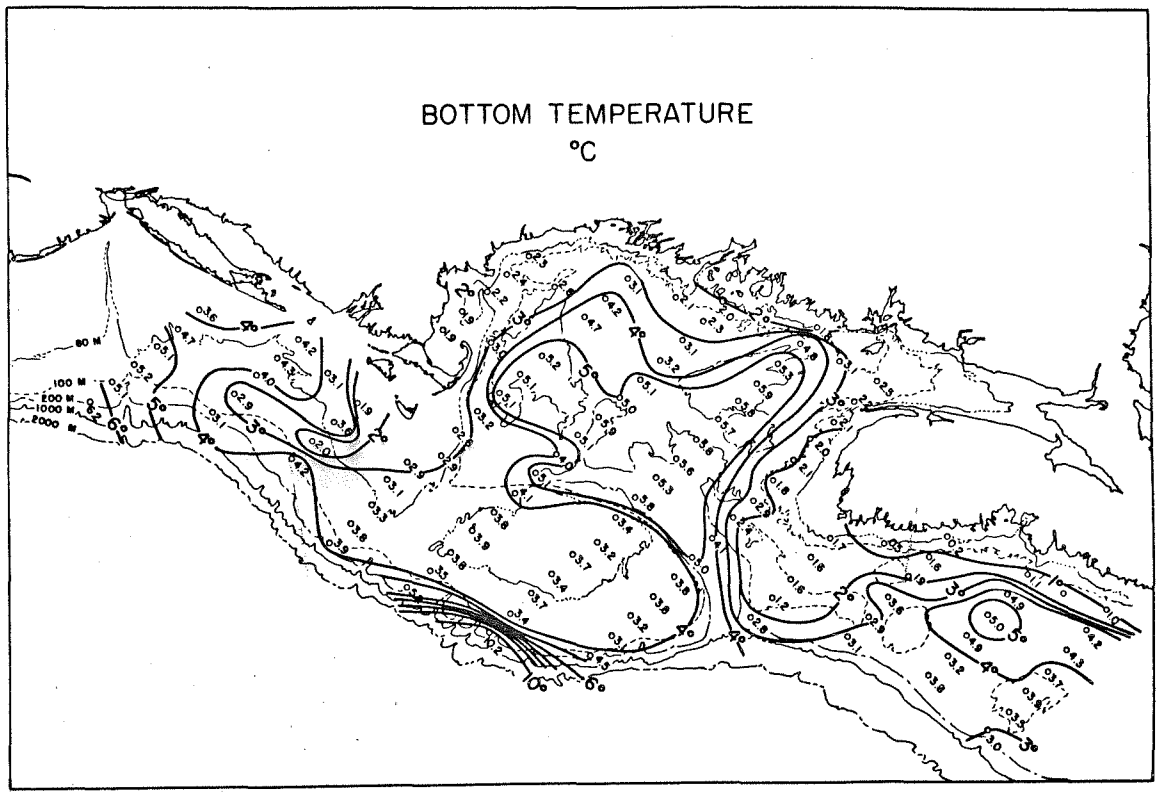

ALBATROSS IV 66-2
2-14 MARCH, 1966
HYDROGRAPHIC STATION
BATHYTHERMOGRAPH
200
1000
2000

FIGURE 1


BOTTOM TEMPERATURE
°C
80 M
100 M
200 M
1000 M
2000 M

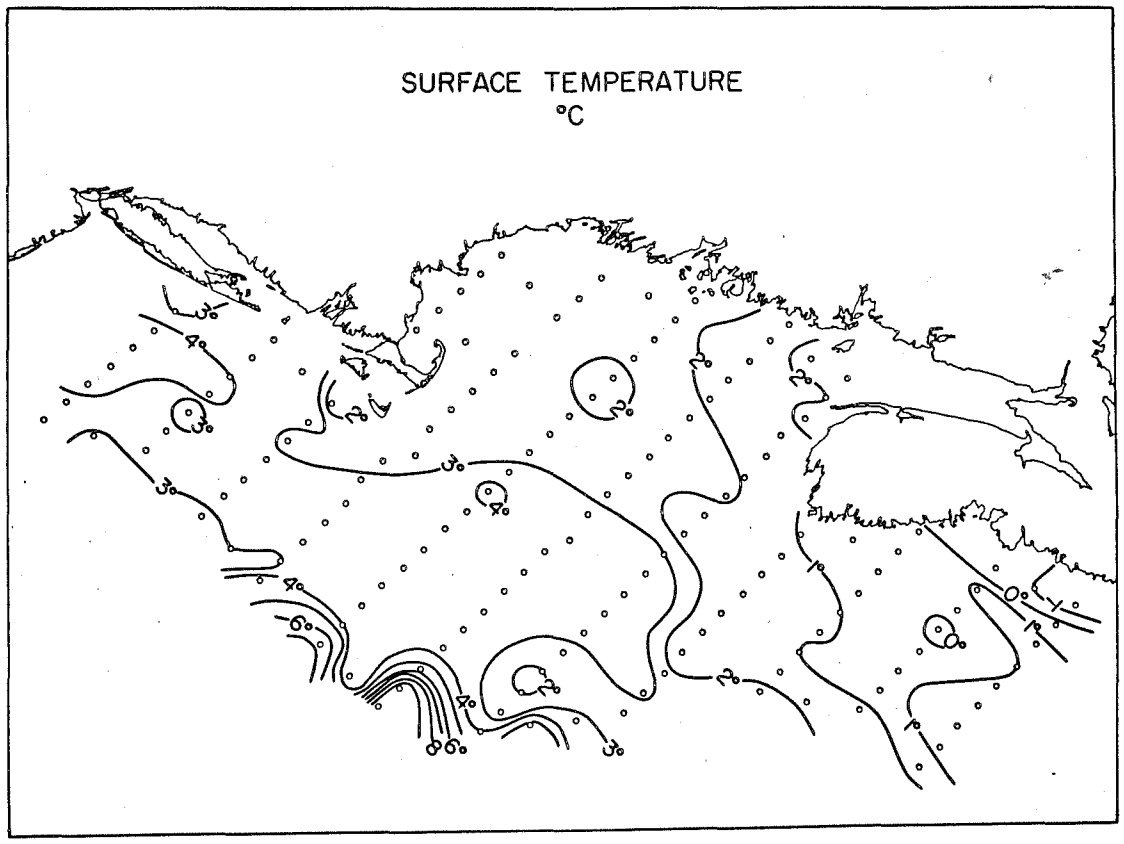
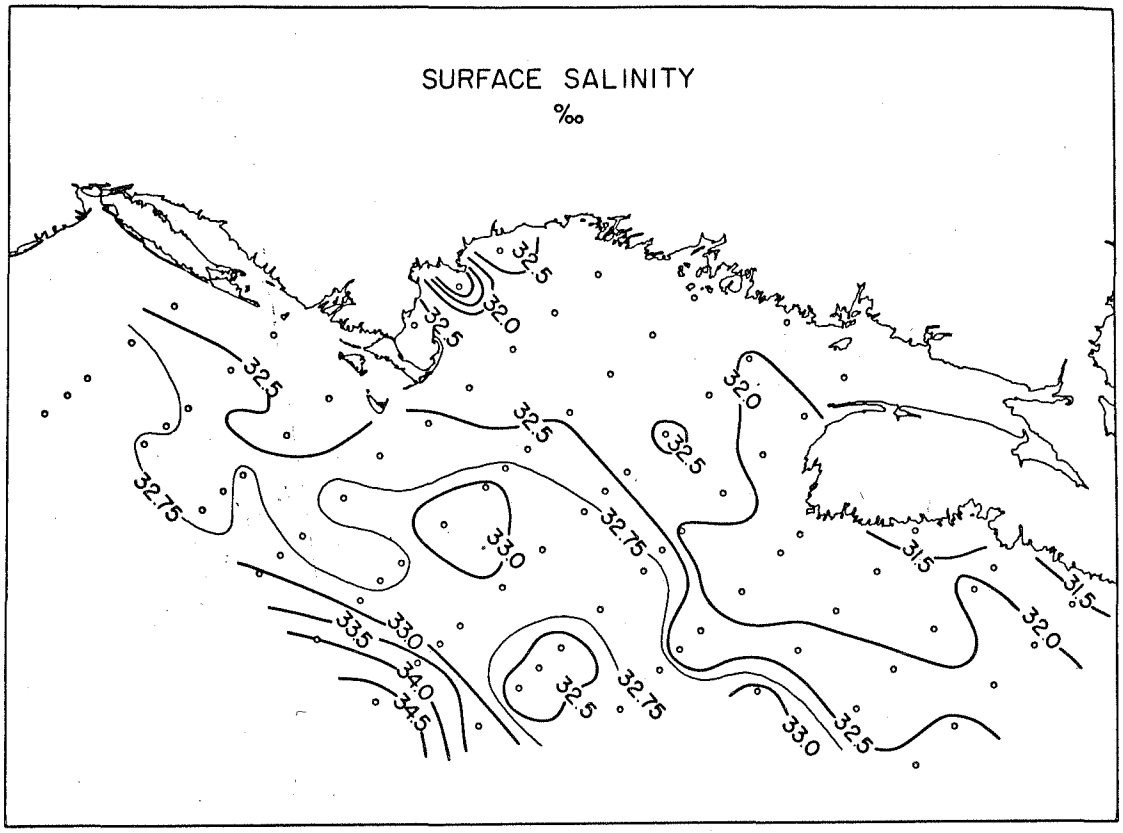

SURFACE TEMPERATURE
°C

FIGURE 2


SURFACE SALINITY
‰
32.5
32.0
32.5
32.5
32.0
32.5
32.5
32.75
32.75
33.0
31.5
31.5
32.0
33.5
33.0
34.0
34.5
32.5
32.75
33.0
32.5

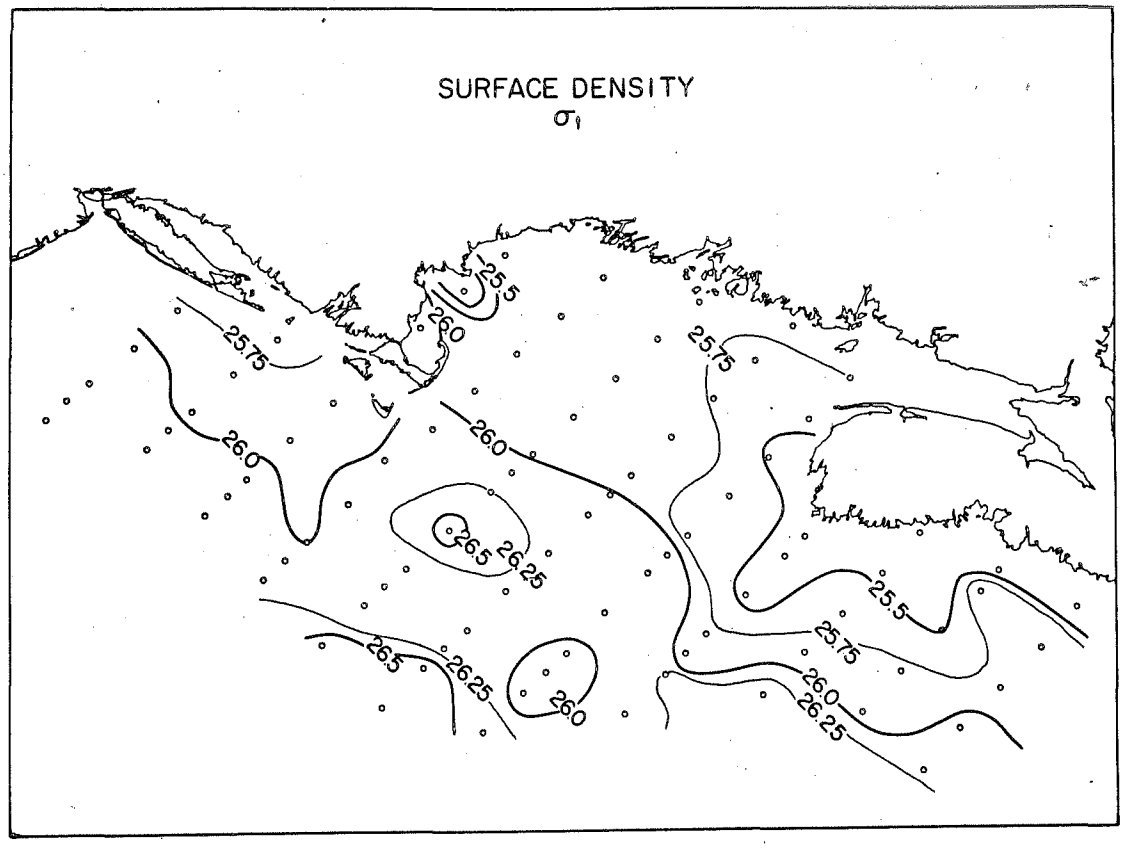

SURFACE DENSITY
σ_1
25.5
26.0
25.75
25.75
26.0
26.0
26.5
26.25
25.5
25.75
26.5
26.25
26.0
26.0
26.25

FIGURE 3

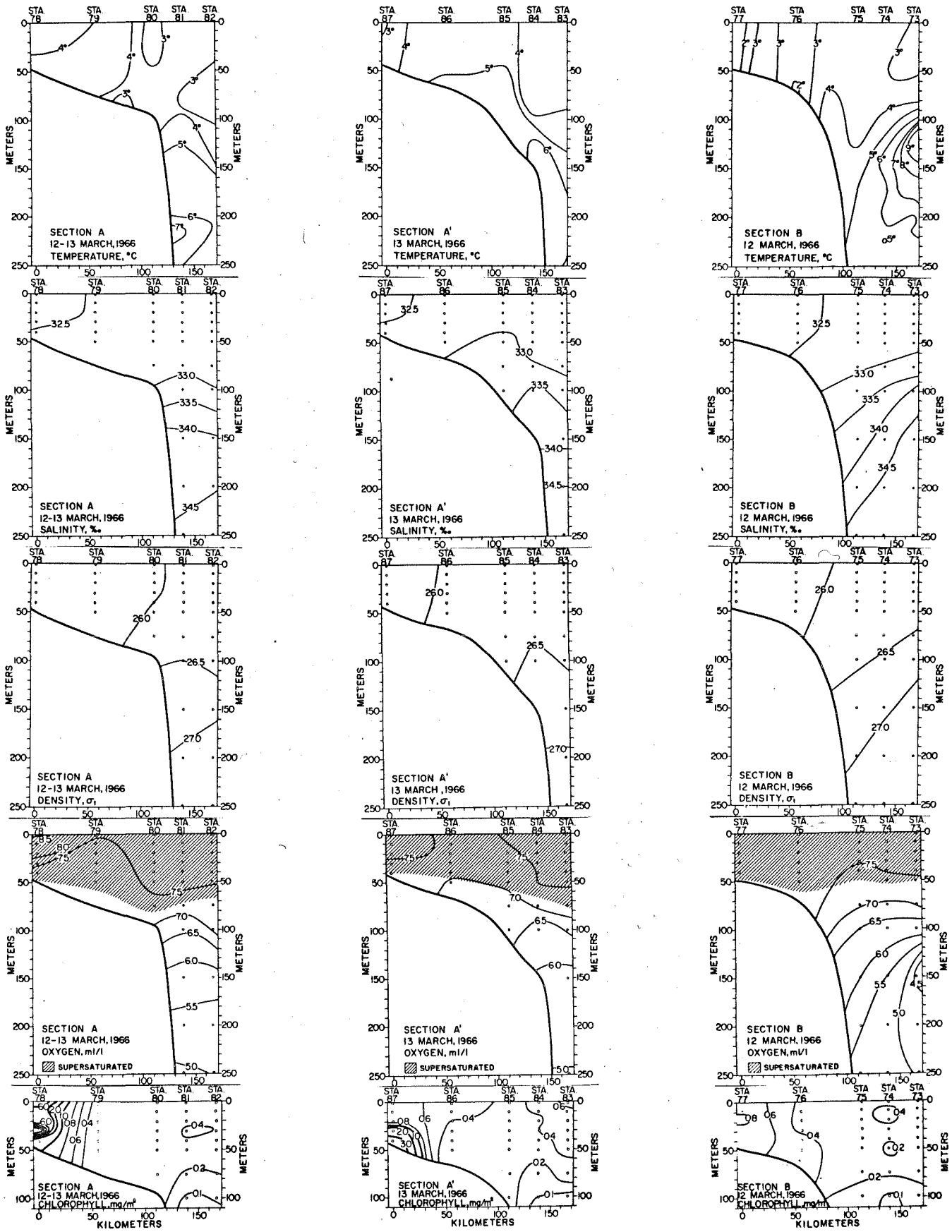

SECTION A
12-13 MARCH, 1966
TEMPERATURE, °C
SECTION A'
13 MARCH, 1966
TEMPERATURE, °C
SECTION B
12 MARCH, 1966
TEMPERATURE, °C
SECTION A
12-13 MARCH, 1966
SALINITY, ‰
SECTION A'
13 MARCH, 1966
SALINITY, ‰
SECTION B
12 MARCH, 1966
SALINITY, ‰
SECTION A
12-13 MARCH, 1966
DENSITY, σt
SECTION A'
13 MARCH, 1966
DENSITY, σt
SECTION B
12 MARCH, 1966
DENSITY, σt
SECTION A
12-13 MARCH, 1966
OXYGEN, ml/l
SECTION A'
13 MARCH, 1966
OXYGEN, ml/l
SECTION B
12 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION A
12-13 MARCH, 1966
CHLOROPHYLL, mg/m³
SECTION A'
13 MARCH, 1966
CHLOROPHYLL, mg/m³
SECTION B
12 MARCH, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 4

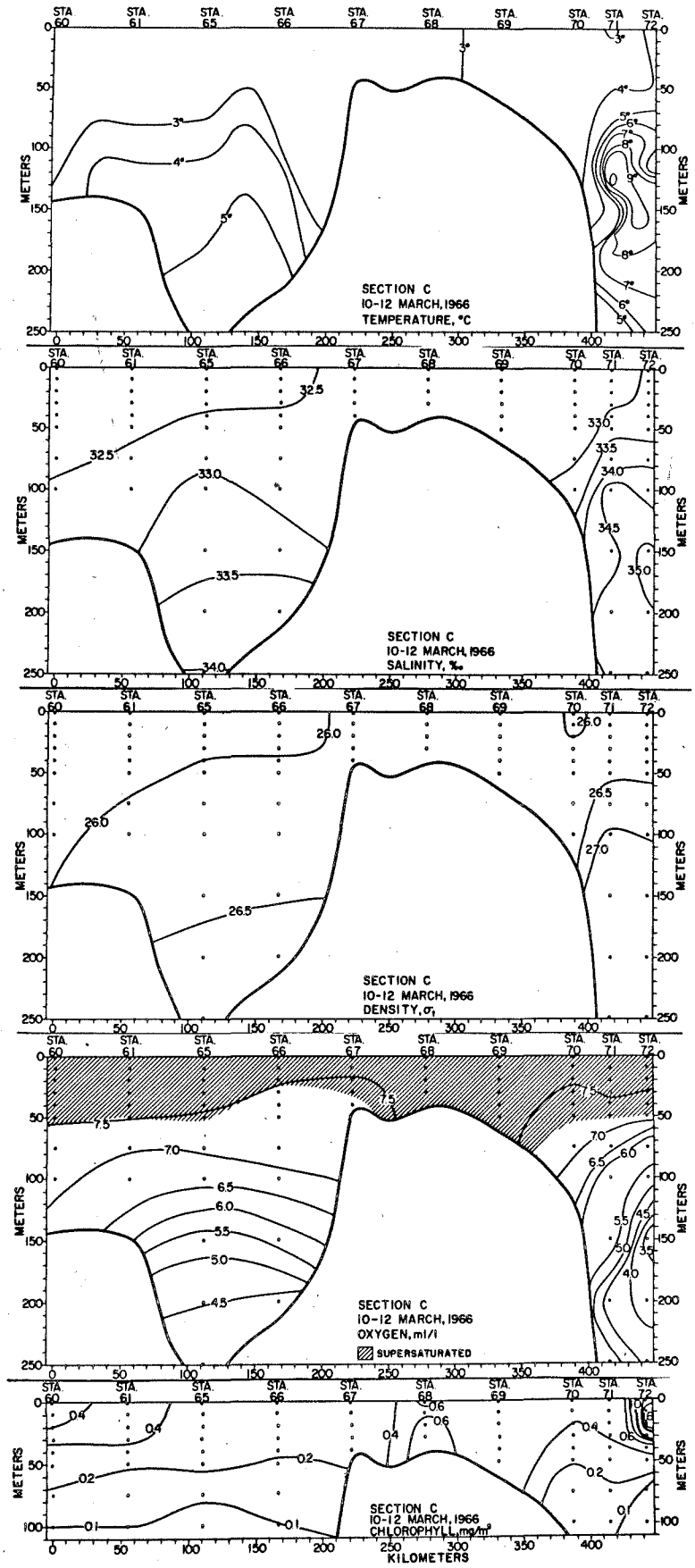

SECTION C
10-12 MARCH, 1966
TEMPERATURE, °C
SECTION C
10-12 MARCH, 1966
SALINITY, ‰
SECTION C
10-12 MARCH, 1966
DENSITY, σ_t
SECTION C
10-12 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION C
10-12 MARCH, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS
STA. 60
STA. 61
STA. 65
STA. 66
STA. 67
STA. 68
STA. 69
STA. 70
STA. 71
STA. 72

FIGURE 5

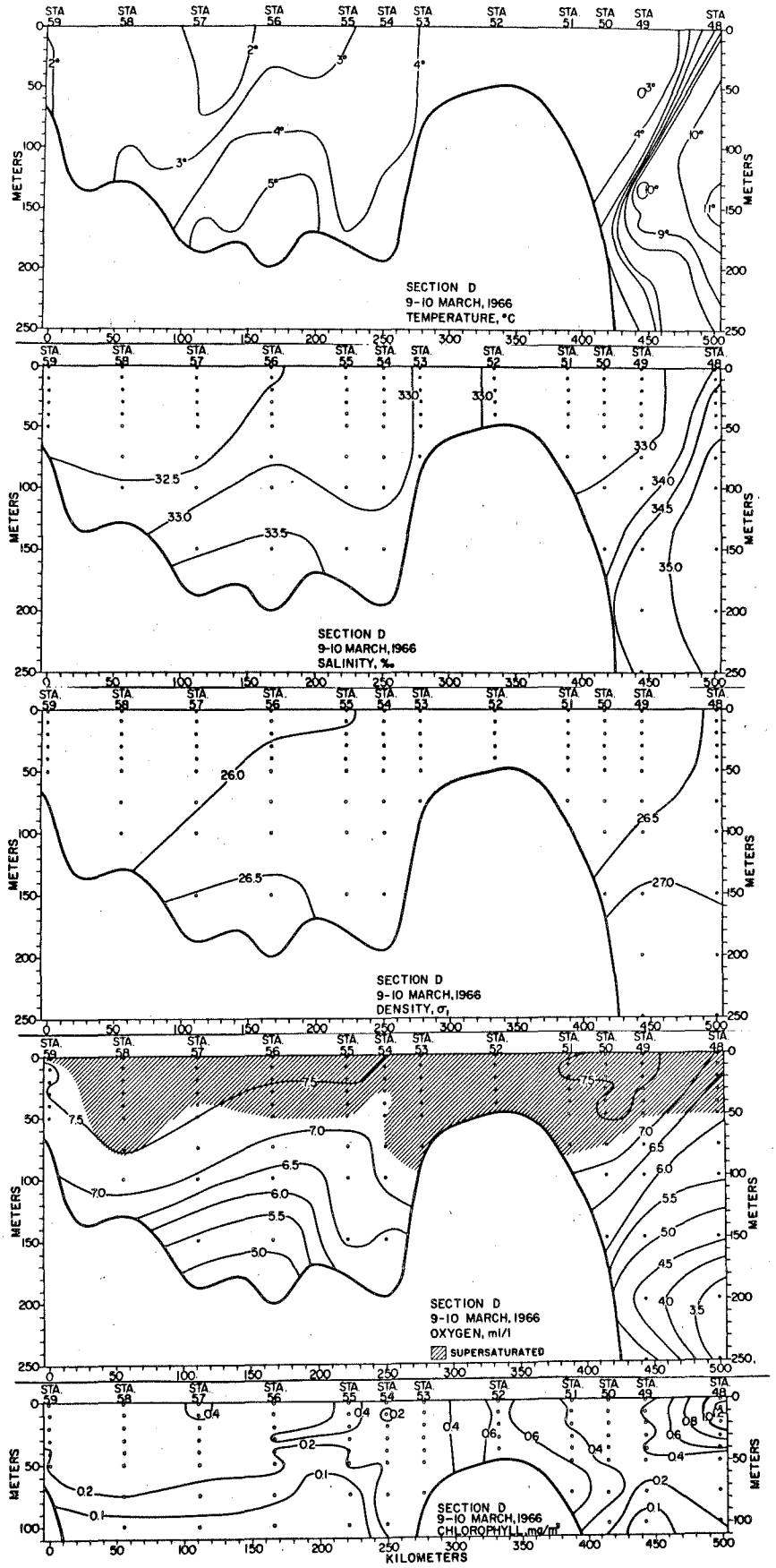

SECTION D
9-10 MARCH, 1966
TEMPERATURE, °C
SECTION D
9-10 MARCH, 1966
SALINITY, ‰
SECTION D
9-10 MARCH, 1966
DENSITY, σ_t
SECTION D
9-10 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION D
9-10 MARCH, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 6

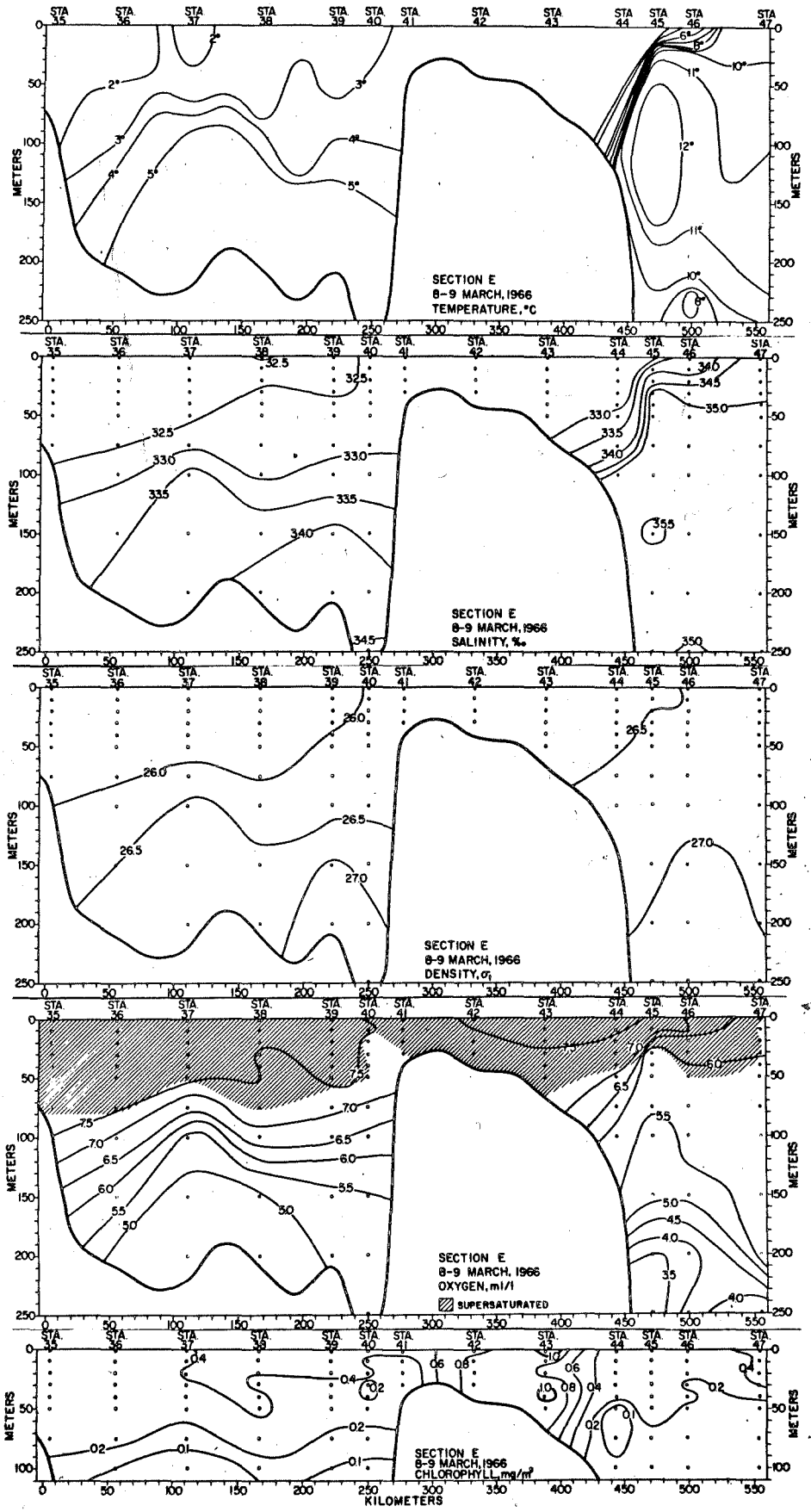

SECTION E
8-9 MARCH, 1966
TEMPERATURE, °C
SECTION E
8-9 MARCH, 1966
SALINITY, ‰
SECTION E
8-9 MARCH, 1966
DENSITY, σ_t
SECTION E
8-9 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION E
8-9 MARCH, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 7

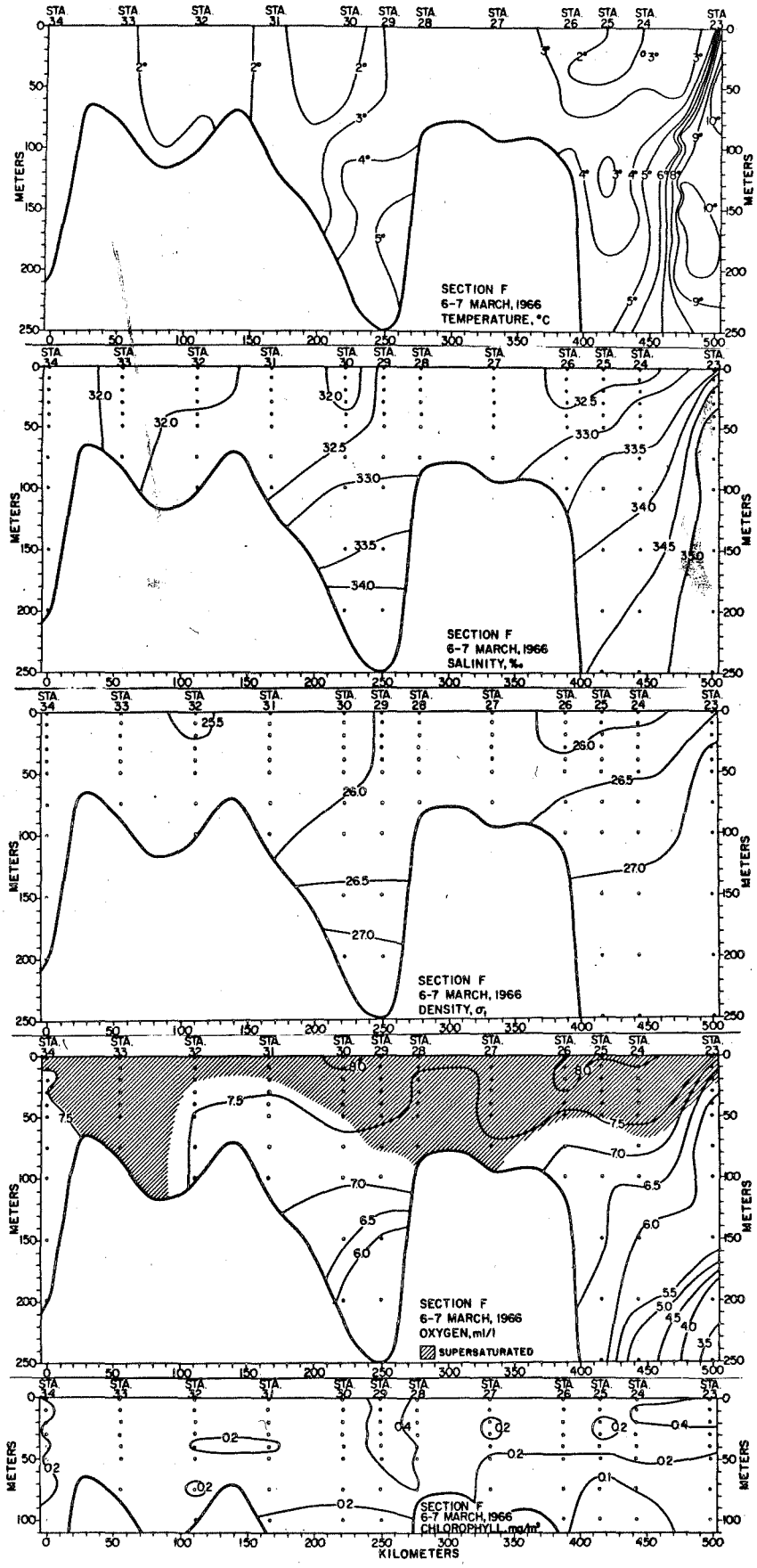

SECTION F
6-7 MARCH, 1966
TEMPERATURE, °C
SECTION F
6-7 MARCH, 1966
SALINITY, ‰
SECTION F
6-7 MARCH, 1966
DENSITY, σt
SECTION F
6-7 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION F
6-7 MARCH, 1966
CHLOROPHYLL, mg/m²
METERS
KILOMETERS

FIGURE 8

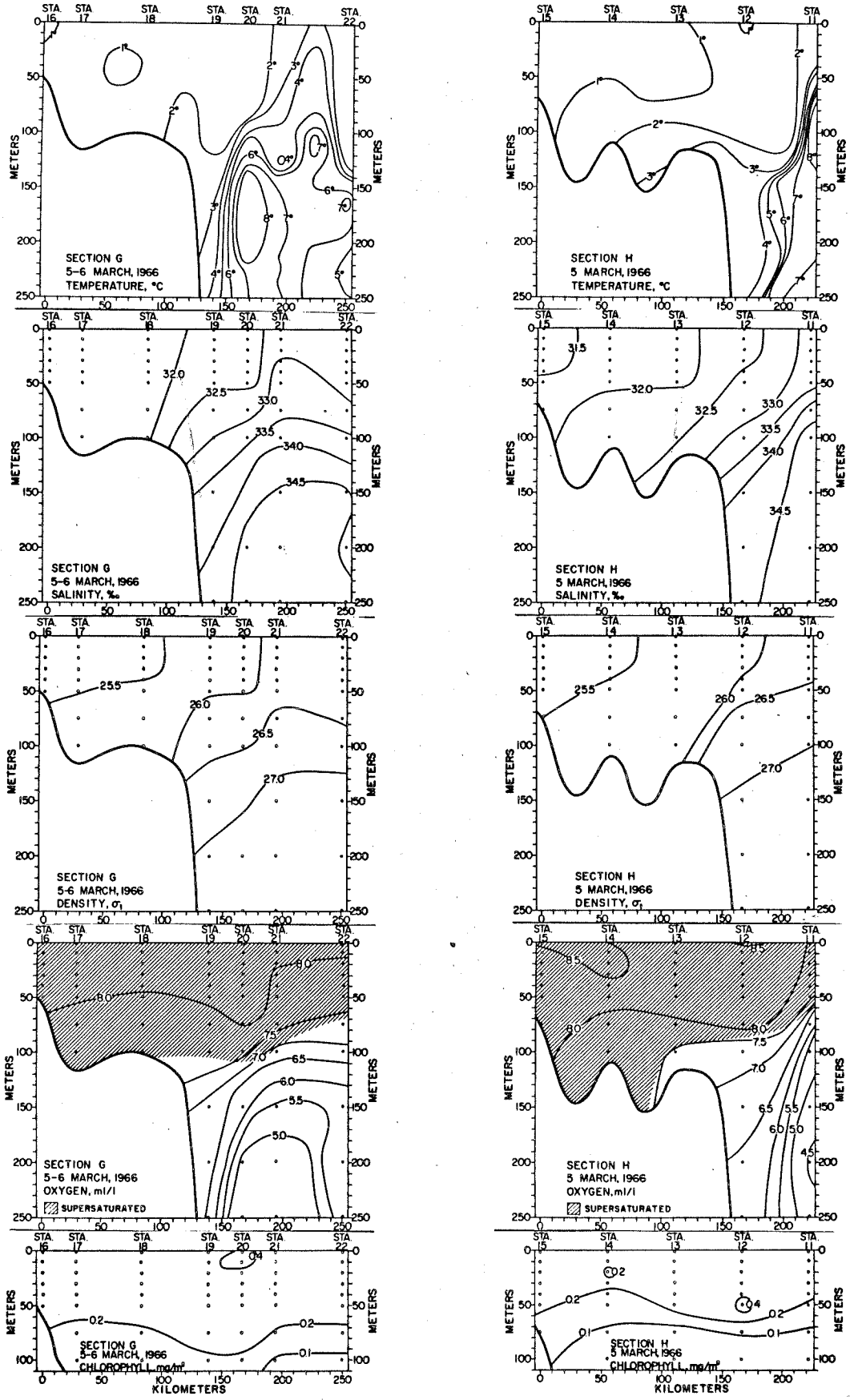

SECTION G
5-6 MARCH, 1966
TEMPERATURE, °C
SECTION H
5 MARCH, 1966
TEMPERATURE, °C
SECTION G
5-6 MARCH, 1966
SALINITY, ‰
SECTION H
5 MARCH, 1966
SALINITY, ‰
SECTION G
5-6 MARCH, 1966
DENSITY, σt
SECTION H
5 MARCH, 1966
DENSITY, σt
SECTION G
5-6 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION H
5 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION G
5-6 MARCH, 1966
CHLOROPHYLL, mg/m³
SECTION H
5 MARCH, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 9

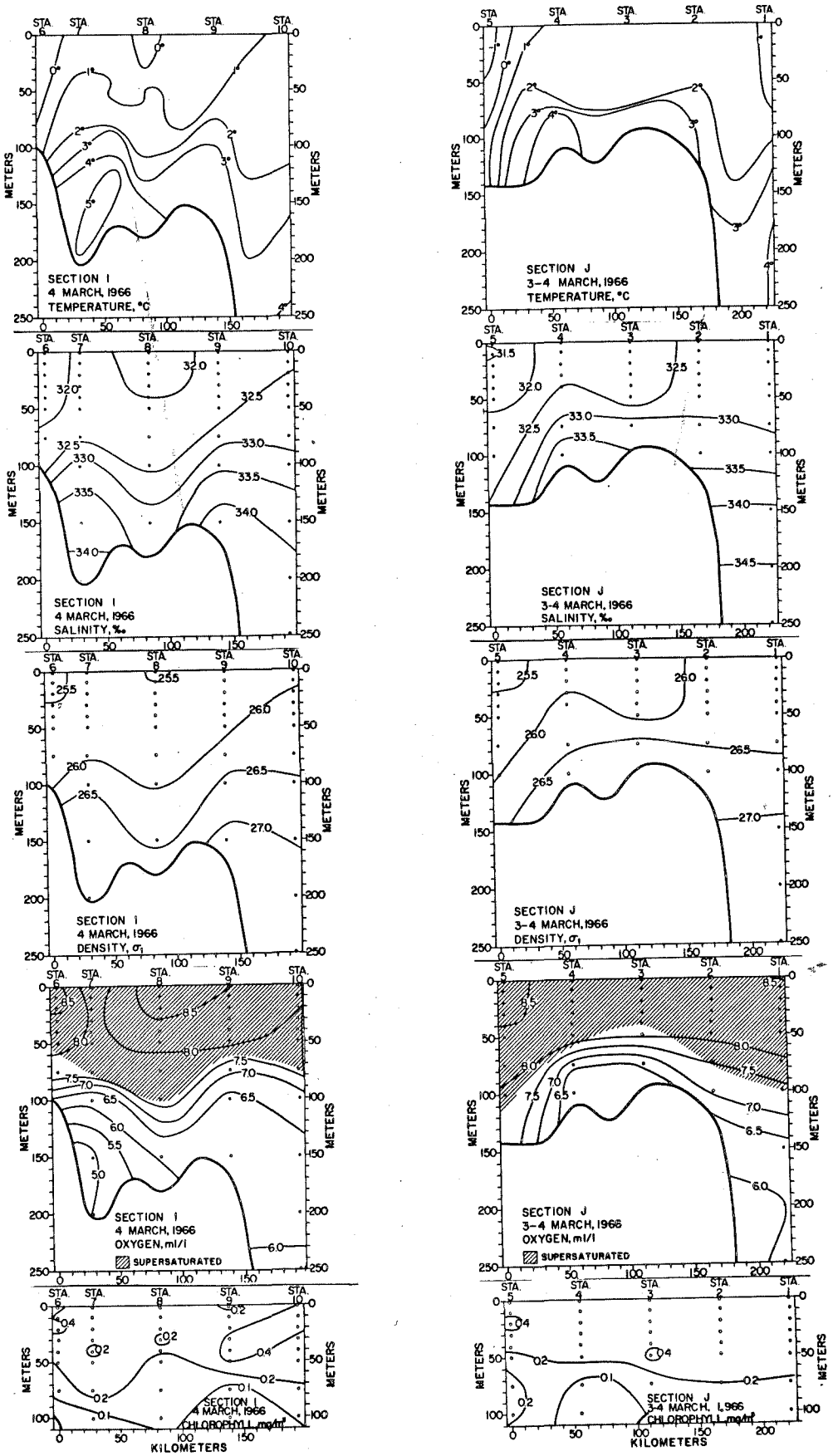

SECTION I
4 MARCH, 1966
TEMPERATURE, °C
SECTION J
3-4 MARCH, 1966
TEMPERATURE, °C
SECTION I
4 MARCH, 1966
SALINITY, ‰
SECTION J
3-4 MARCH, 1966
SALINITY, ‰
SECTION I
4 MARCH, 1966
DENSITY, σt
SECTION J
3-4 MARCH, 1966
DENSITY, σt
SECTION I
4 MARCH, 1966
OXYGEN, ml/l
SECTION J
3-4 MARCH, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION I
4 MARCH, 1966
CHLOROPHYLL mg/m³
SECTION J
3-4 MARCH, 1966
CHLOROPHYLL mg/m³
METERS
KILOMETERS

FIGURE 10

ALB. IV CRUISE NO. 62-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
1	4·III·66	0205	42°30'	62°30'	1	0.9	32.67	8.54	0.30				
					10	0.9	32.65	8.47	0.26				
					20	0.9	32.69	8.35	0.26				
					30	0.9		8.28	0.29				
					40	0.9	32.67	8.23	0.29				
					50	1.0	32.66	8.25	0.29				
					75	1.4	32.90	7.96	0.19				
					100	2.2	33.41	7.45	0.13				
					150	3.4	34.04	6.36					
					200	4.0	34.51	6.00					
					250	4.1	34.53	6.19					
					BOTTOM								
2	4·III·66	0525	43°00'	62°31'	1	2.0	32.68		0.31				
					10	2.0	32.65	8.24	0.33				
					20	1.9	32.65	8.13	0.29				
					30	1.9	32.69	8.20	0.31				
					40	1.8	32.66	8.12	0.30				
					50	1.9	32.71	8.16	0.28				
					75	2.2	33.11	7.59	0.20				
					100	2.9	33.43	7.23	0.12				
					150								
					200								
					250								
					BOTTOM								
3	4·III·66	0820	43°30'	62°30'	1	1.2	32.24	8.19	0.24				
					10	1.2	32.23	8.12	0.25				
					20	1.2	32.25	8.02	0.27				
					30	1.2	32.23	8.02	0.37				
					40	1.2	32.23	8.02	0.37				
					50	1.2	32.39	8.08	0.41				
					75	2.7	33.29	6.58	0.15				
					100								
					150								
					200								
					250								
				(95M)	BOTTOM	3.9							
4	4·III·66	1105	44°00'	62°30'	1	1.3	32.36	8.42	0.25				
					10	1.3	32.39	8.22	0.24				
					20	1.3	32.35	8.26	0.22				
					30	1.3	32.45	8.15	0.24				
					40	1.3	32.50	8.24	0.23				
					50	1.3		8.24	0.22				
					75	3.7	33.25	6.59	0.08				
					100	4.2	33.78	6.62	0.09				
					150								
					200								
					250								
				(110M)	BOTTOM	4.2							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
5	4·III·66	1405	44°30'	62°30'	1	−1.1	31.51	8.97	0.28	
					10	−1.1	31.48	8.75	0.24	
					20	−1.1	31.60	8.66	0.54	
					30	−1.1	31.76	8.57	0.22	
					40	−0.9	31.80	8.50	0.22	
					50	−0.6	31.88	8.46	0.19	
					75	−0.2	32.18	8.19	0.21	
					100	+0.9	32.42	7.94	0.21	
					150					
					200					
					250					
				(142m)	BOTTOM	+1.0				
6	4·III·66	1810	44°15'	63°30'	1	−0.7	31.60	8.50	0.41	
					10	−0.9	31.56	8.53	0.36	
					20	−0.9	31.61	8.51	0.44	
					30	−0.9	31.76	8.35	0.22	
					40	−0.7	31.78	8.28	0.25	
					50	−0.6	31.79	8.25	0.22	
					75	+0.2	32.16	7.81	0.11	
					100	+0.9				
					150					
					200					
					250					
				(107m)	BOTTOM	+1.1m				
7	4·III·66	1945	44°00'	63°30'	1	1.1	32.20	7.95	0.26	
					10	1.1	32.18	7.97	0.25	
					20	1.0	32.19	7.97	0.25	
					30	1.0	32.21	7.97	0.22	
					40	1.0	32.26	7.82	0.19	
					50	1.1	32.28	7.84	0.22	
					75	1.5	32.45	7.76	0.26	
					100	28	33.16	6.14	0.09	
					150	4.9	33.92	4.97		
					200	50	34.09	5.06		
					250					
				(204m)	BOTTOM	5.0				
8	4·III·66	2135	43°30'	63°30'	1	−0.3	31.72	8.64	0.28	
					10	−0.3	31.70	8.65	0.24	
					20	−0.2	31.77	8.65	0.26	
					30	0.0	31.84	8.50	0.19	
					40	+0.7	32.00	8.30	0.21	
					50	+1.0	32.26	8.07	0.11	
					75	+1.1	32.34	7.81	0.11	
					100	+1.7	32.40	7.68	0.11	
					150	+4.0	33.27	6.02		
					200					
					250					
				(180m)	BOTTOM	4.9				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
9	5·III·66	0115	43°00'	63°30'	1	0.8	32.13	8.54	0.19	
					10	0.8	32.14	8.34	0.22	
					20	0.8	32.15	8.29	0.31	
					30	0.9	32.19	8.20	0.45	
					40	0.9	32.19	8.26	0.47	
					50	0.9	32.21	8.29	0.40	
					75	2.0	32.75	7.05	0.08	
					100	3.0	33.43	6.31	0.06	
					150	3.7	34.29	6.36		
					200					
					250					
				(1701)	BOTTOM	3.8				
10	5·III·66	0350	42°30'	63°30'	1	1.1	32.31	8.25	0.40	
					10	1.1	32.35	8.13	0.41	
					20	1.2	32.50	8.06	0.45	
					30	1.2	32.57	7.95	0.37	
					40	1.2	32.72	7.93	0.29	
					50	1.2	32.76	7.93	0.24	
					75	1.2	32.81	7.80	0.19	
					100	1.7	33.26	6.92	0.11	
					150	2.7	33.82	6.31		
					200	3.2	34.23	6.40		
					250	4.1	34.48	5.73		
					BOTTOM					
11	5·III·66	0835	42°00'	64°30'	1	2.5	33.11	7.99	0.26	
					10	2.8	33.10	7.98	0.28	
					20	2.8	33.15	7.88	0.38	
					30	2.8	33.18	7.81	0.36	
					40	2.9	33.21	7.69	0.34	
					50	3.1	33.38	7.58	0.19	
					75	6.7	34.32	6.27	0.09	
					100	8.8	34.78	5.28	0.02	
					150	7.1	34.76	4.86		
					200	7.1	34.85	4.44		
					250	6.2	34.79	4.89		
					BOTTOM					
12	5·III·66	1110	42°30'	64°30'	1	1.0	32.24	8.60	0.33	
					10	1.0	32.21	8.38	0.36	
					20	1.1	32.24	8.37	0.34	
					30	1.2	32.32	8.29	0.34	
					40	1.2	32.49	8.24	0.35	
					50	1.2	32.64	8.27	0.50	
					75	1.2	32.80	8.12	0.11	
					100	1.3	33.20	7.33	0.02	
					150	3.2	34.05	6.62		
					200	3.7	34.25	6.48		
					250	3.8	34.42	6.36		
					BOTTOM					

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
13	5·III·66	1400	43°00'	64°30'	1	1.0	31.96	8.48	0.34	
					10	1.0	31.94	8.43	0.37	
					20	0.9	31.95	8.37	0.33	
					30	0.9	31.96	8.37	0.27	
					40	0.9	31.96	8.33	0.25	
					50	0.9	31.97	8.29	0.21	
					75	1.1	32.25	7.90	0.08	
					100	2.1	32.48	7.47	0.08	
					150					
					200					
					250					
				(118M)	BOTTOM	2.9				
14	5·III·66	1640	43°30'	64°30'	1	0.3	31.69	8.49	0.28	
					10	0.2	31.67	8.58	0.24	
					20	0.2	31.68	8.51	0.20	
					30	0.2	31.69	8.62	0.23	
					40	0.4	31.76	8.43	0.16	
					50	0.9	31.93	8.38	0.13	
					75	1.8	32.21	7.78	0.04	
					100	1.9	32.31	7.74	0.08	
					150					
					200					
					250					
				(110M)	BOTTOM	1.9				
15	5·III·66	1930	44°00'	64°30'	1	0.1	31.34	8.55	0.33	
					10	0.1	31.32	8.46	0.31	
					20	0.1	31.34	8.46	0.30	
					30	0.1	31.36	8.46	0.36	
					40	0.1	31.45	8.39	0.26	
					50	0.1	31.59	8.47	0.22	
					75	0.2	31.75	8.20	0.17	
					100					
					150					
					200					
					250					
				(77M)	BOTTOM	0.2				
16	6·III·66	0050	43°15'	65°30'	1	1.0	31.74	8.34	0.27	
					10	1.0	31.74	8.34	0.24	
					20	1.0	31.76	8.17	0.24	
					30	1.1	31.78	8.15	0.24	
					40	1.1	31.78	8.15	0.24	
					50	1.1	31.78	8.15	0.24	
					75					
					100					
					150					
					200					
					250					
				(52M)	BOTTOM	1.1				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
17	6-III-66	0230	43°00'	65°30'	1	1.4	31.80	8.06	0.30	
					10	1.4	31.77	8.13	0.30	
					20	1.4	31.77	8.06	0.31	
					30	1.4	31.77	8.02	0.31	
					40	1.3	31.78	8.02	0.34	
					50	1.2	31.80	8.04	0.22	
					75	1.3	31.94	7.78	0.18	
					100	1.6	31.96	7.74	0.17	
					150					
					200					
					250					
				(117 M)	BOTTOM	1.6				
18	6-III-66	0530	42°30'	65°30'	1	1.1	31.78	8.22	0.31	
					10	1.1	31.78	8.32	0.31	
					20	1.1	31.78	8.23	0.29	
					30	1.1	31.79	8.19	0.31	
					40	1.0	31.80	8.18	0.29	
					50	1.1	31.92	7.97	0.31	
					75	1.2	31.98	7.91	0.18	
					100	1.2	31.99	7.86	0.17	
					150					
					200					
					250					
				(102 M)	BOTTOM	1.2				
19	6-III-66	0850	42°00'	65°30'	1	1.1	32.16	8.19	0.29	
					10	1.1	32.16	8.18	0.38	
					20	1.1	32.35	8.23	0.37	
					30	1.1	32.19	8.20	0.34	
					40	1.1	32.21	8.12	0.36	
					50	1.2	32.34	8.11	0.35	
					75	1.6	32.80	7.81	0.27	
					100	1.8	33.00	7.70	0.18	
					150	2.7	33.61	6.84		
					200	3.1	33.99	6.60		
					250	4.1	34.26	6.47		
					BOTTOM					
20	6-III-66	1115	41°45'	65°30'	1	1.5	32.33	8.47	0.41	
					10	1.5	32.38	8.24	0.47	
					20	1.5	32.40	8.28	0.33	
					30	1.5	32.40	8.09	0.28	
					40	1.4	32.41	8.23	0.26	
					50	1.3	32.42	8.20	0.28	
					75	1.3	32.83	8.01	0.38	
					100	4.2	33.36	7.52	0.14	
					150	8.5	[illegible]	6.01		
					200	8.9	34.67	4.82		
					250	6.9	34.82	4.68		
					BOTTOM					

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
21	6·III·66	1250	41°30'	65°30'	1	2.3	32.85	8.05	0.32	
					10	2.3	32.83	8.04	0.29	
					20	2.4	32.87	8.06	0.28	
					30	2.7	33.01	7.91	0.31	
					40	2.8	33.04	7.93	0.38	
					50	2.9	33.11	7.82	0.36	
					75	3.1	33.35	7.58	0.19	
					100	4.9	33.88	6.89	0.09	
					150	6.7	34.53	5.49		
					200	7.1	34.78	4.77		
					250	7.1	34.87	4.61		
					BOTTOM					
22	6·III·66	1605	41°00'	65°30'	1	2.5	32.71	8.04	0.31	
					10	2.5	32.70	8.03	0.37	
					20	2.4	32.73	7.91	0.32	
					30	2.2	32.79	7.86	0.31	
					40	2.0	32.82	7.83	0.24	
					50	2.0	32.86	7.83	0.29	
					75	2.2	33.14	7.36	0.18	
					100	2.2	33.57	6.96	0.08	
					150	5.6	34.52	5.61		
					200	5.8	34.40	5.84		
					250	5.1	34.59	5.56		
					BOTTOM					
23	6·III·66	2330	40°00'	66°30'	1	4.0	33.18	7.64	0.42	
					10	7.3	34.13	6.94	0.52	
					20	8.2	34.57	6.47	0.42	
					30	8.7	34.79	6.22	0.25	
					40	10.5	35.32	5.82	0.23	
					50	10.6	35.45	5.67	0.19	
					75	10.7	35.49	5.54	0.19	
					100	9.9	35.14	5.79	0.18	
					150	9.8	35.15	5.82		
					200	10.0	35.44	3.60		
					250	8.3	35.28	3.40		
					BOTTOM					
24	7·III·66	0225	40°30'	66°30'	1	2.0	32.33	8.07	0.27	
					10	2.0	32.36	8.00	0.43	
					20	3.0	32.91	7.79	0.40	
					30	2.9	33.07	7.48	0.21	
					40	2.9	33.08	7.50	0.24	
					50	3.0	33.13	7.65	0.22	
					75	3.8	33.53	7.06	0.11	
					100	4.0	33.82	6.58	0.05	
					150	4.2	34.27	5.99		
					200	4.9	34.56	5.62		
					250	6.2	34.89	4.78		
					BOTTOM					

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
25	7·III·66	0400	40°45'	66°30'	1	20	32.40	8.09	0.28				
					10	20	32.42	7.92	0.31				
					20	18	32.54	7.87	0.19				
					30	1.8	32.61	7.86	0.15				
					40	1.9	32.86	7.66	0.21				
					50	2.1	32.98	7.58	0.19				
					75	3.2	33.52		0.05				
					100	3.0	33.69	6.54	0.03				
					150	3.1	34.02	6.54					
					200	4.2	34.33	6.14					
					250	4.3	34.57	6.04					
					BOTTOM								
26	7·III·66	0540	41°00'	66°30'	1	2.1	32.34	7.95	0.31				
					10	2.1	32.31	8.03	0.29				
					20	2.1	32.32	8.07	0.28				
					30	2.0	32.37	8.00	0.26				
					40	2.0	32.65	7.79	0.29				
					50	2.9	32.86	7.44	0.17				
					75	3.2	33.32	7.00	0.16				
					100	4.0	33.44	6.80	0.12				
					150								
					200								
					250								
				(118M)	BOTTOM	4.5							
27	7·III·66	0850	41°30'	66°30'	1	3.1	32.90	7.63	0.25				
					10	3.1	32.89	7.58	0.25				
					20	3.2	32.90	7.51	0.19				
					30	3.2	32.91	7.55	0.19				
					40	3.2	32.91	7.51	0.22				
					50	3.2	32.93	7.58	0.19				
					75	3.2	32.96	7.48	0.19				
					100								
					150								
					200								
					250								
				(94M)	BOTTOM	3.2							
28	7·III·66	1145	42°00'	66°30'	1	3.8	32.93	7.55	0.37				
					10	3.8	32.94	7.58	0.32				
					20	3.8	32.93	7.47	0.33				
					30	3.8	32.94	7.40	0.37				
					40	3.8	32.93	7.46	0.40				
					50	3.8	32.94	7.40	0.37				
					75	3.8	32.94	7.40	0.40				
					100								
					150								
					200								
					250								
				(86M)	BOTTOM	3.8							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
29	7-III-66	1310	42°15'	66°30'	1	3.0	32.67	7.81	0.49	
					10	3.1	32.67	7.67	0.42	
					20	3.1	32.68	7.63	0.42	
					30	3.1	32.66	7.65	0.42	
					40	3.1	32.67	7.71	0.47	
					50	3.0	32.76	7.60	0.42	
					75	3.2	32.90	7.37	0.31	
					100	3.6	33.05	7.12	0.18	
					150	4.9	33.59	5.99		
					200	5.6	34.29	5.60		
					250	4.9				
				(250M)	BOTTOM	4.9				
30	7-III-66	1455	42°30'	66°30'	1	1.1	31.94	8.11	0.34	
					10	1.1	31.93	8.04	0.31	
					20	1.1	31.93	7.85	0.31	
					30	1.1	31.98	7.84	0.27	
					40	1.2	32.05	7.83	0.29	
					50	1.3	32.17	7.77	0.27	
					75	2.8	32.65	7.27	0.24	
					100	3.8	33.08	7.07	0.16	
					150	3.3	33.36	6.64		
					200	4.6	34.39	5.95		
					250					
				(219M)	BOTTOM	4.1				
31	7-III-66	1750	43°00'	66°30'	1	2.2	32.13	7.69	0.34	
					10	2.2	32.14	7.69	0.21	
					20	2.1	32.17	7.58	0.21	
					30	2.2	32.18	7.51	0.22	
					40	2.3	32.31	7.39	0.18	
					50	2.5	32.36	7.25	0.22	
					75	2.6	32.40	7.21	0.26	
					100	2.7	32.46	7.15	0.19	
					150					
					200					
					250					
				(127M)	BOTTOM	2.9				
32	7-III-66	2045	43°30'	66°30'	1	2.0	31.87	7.78	0.24	
					10	2.0	31.86	7.83	0.25	
					20	2.0	31.87	7.88	0.23	
					30	2.0	31.93	7.62	0.22	
					40	2.0	32.05	7.54	0.19	
					50	2.0	32.06	7.49	0.22	
					75	2.0	32.07	7.49	0.20	
					100	2.1	32.11	7.49	0.26	
					150					
					200					
					250					
				(103M)	BOTTOM	2.1				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
33	7-III-66	2335	44°00'	66°30'	1	2.1	31.92	7.95	0.26	
					10	2.1	31.92	7.86	0.26	
					20	2.1	31.93	7.70	0.27	
					30	2.1	31.94	7.72	0.25	
					40	2.1	31.94	7.76	0.27	
					50	2.1	31.95	7.70	0.24	
					75	2.1	31.96	7.70	0.24	
					100					
					150					
					200					
					250					
				(85M)	BOTTOM	2.1				
34	8-III-66	0150	44°30'	66°30'	1	2.3	32.23	7.64	0.21	
					10	2.3	32.24	7.52	0.15	
					20	2.3	32.24	7.43	0.20	
					30	2.3	32.26	7.50	0.23	
					40	2.3	32.26	7.46	0.19	
					50	2.3	32.26	7.46	0.21	
					75	2.5	32.28	7.41	0.18	
					100	2.4	32.32	7.34	0.23	
					150	2.4	32.29	7.34		
					200	2.5	32.30	7.34		
					250					
				(202M)	BOTTOM	2.5				
35	8-III-66	0625	44°28'	67°30'	1	1.8	32.27	7.85	0.22	
					10	1.8	32.23	7.85	0.22	
					20	1.8	32.22	7.85	0.20	
					30	1.8	32.23	7.79	0.20	
					40	1.8	32.27	7.72	0.24	
					50	1.8	32.28	7.70	0.21	
					75	1.8	32.39	7.74	0.26	
					100					
					150					
					200					
					250					
				(92M)	BOTTOM	1.8				
36	8-III-66	0900	44°00'	67°30'	1	1.6	31.99	7.76	0.27	
					10	1.7	31.99	7.76	0.26	
					20	1.7	31.99	7.68	0.25	
					30	1.8	32.03	7.74	0.25	
					40	1.9	32.10	7.67	0.26	
					50	2.0	32.31	7.66	0.21	
					75	2.2	32.48	7.65	0.25	
					100	3.2	32.83	6.99	0.10	
					150	4.6	33.43	5.89		
					200	5.2				
					250					
				(210M)	BOTTOM	5.3				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
37	8.III.66	1135	43°30'	67°30'	1	1.9	32.16	7.95	0.39	
					10	1.9	32.15	7.84	0.37	
					20	1.9	32.17	7.78	0.42	
					30	1.9	32.16	7.73	0.39	
					40	2.1	32.22	7.70	0.39	
					50	2.2	32.41	7.64	0.25	
					75	4.8	32.94	6.56	0.13	
					100	5.2	33.60	5.40	0.03	
					150	5.6	33.89	4.79		
					200	5.7	33.97	4.79		
					250					
				(222M)	BOTTOM	5.8				
38	8.III.66	1415	43°00'	67°30'	1	2.7	32.50	7.64	0.43	
					10	2.7	32.49	7.61	0.40	
					20	2.8	32.49	7.54	0.41	
					30	2.8	32.53	7.48	0.27	
					40	2.8	32.53	7.48	0.44	
					50	2.8	32.54	7.50	0.44	
					75	2.9	32.57	7.44	0.36	
					100	4.7	32.92	6.78	0.14	
					150	5.2	33.89	4.99		
					200	5.8	34.10	4.85		
					250					
				(209M)	BOTTOM	5.8				
39	8.III.66	1705	42°30'	67°30'	1	2.4	32.39	7.75	0.44	
					10	2.4	32.37	7.81	0.44	
					20	2.5	32.39	7.74	0.59	
					30	2.6	32.47	7.67	0.37	
					40	2.8	32.60	7.56	0.37	
					50	2.9	32.69	7.53	0.30	
					75	3.2	32.85	7.13	0.17	
					100	4.0	33.16	6.69	0.10	
					150	5.2	34.16	5.21		
					200	5.3	34.37	5.14		
					250					
				(210M)	BOTTOM	5.3				
40	8.III.66	1855	42°15'	67°30'	1	2.8	32.60	7.44	0.43	
					10	2.9	32.60	7.56	0.37	
					20	3.0	32.65	7.27	0.44	
					30	3.0	32.74	7.32	0.19	
					40	3.1	32.76	7.37	0.16	
					50	3.1	32.77	7.42	0.30	
					75	3.2	32.92	6.97	0.14	
					100	3.9	33.16	6.39	0.08	
					150	5.1	33.78	5.50		
					200	5.9	34.40	5.05		
					250	5.8	34.54	5.08		
				(265M)	BOTTOM	5.8				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
41	8.III.66	2030	42°00'	67°30'	1	3.2	32.87	7.45	0.44	
					10	3.3	32.87	7.37	0.36	
					20	3.3	32.87	7.30	0.34	
					30	3.4	32.87	7.30	0.35	
					40	3.4				
					50					
					75					
					100					
					150					
					200					
					250					
				(42M)	BOTTOM	3.4				
42	8.III.66	2300	41°30'	67°30'	1	3.6	32.93	7.58	0.79	
					10	3.7	32.94	7.50	0.91	
					20	3.7	32.95	7.40	0.96	
					30	3.7	32.95	7.38	0.94	
					40	3.7				
					50					
					75					
					100					
					150					
					200					
					250					
				(45M)	BOTTOM	3.7				
43	9.III.66	0145	41°00'	67°30'	1	3.7	32.96	7.59	1.00	
					10	3.7	32.96	7.57	0.98	
					20	3.7	32.96	7.59	0.67	
					30	3.7	32.96	7.48	0.93	
					40	3.7	32.96	7.46	1.05	
					50	3.7	32.96	7.43	0.89	
					75					
					100					
					150					
					200					
					250					
				(69M)	BOTTOM	3.7				
44	9.III.66	0430	40°30'	67°30'	1	3.6	32.87	7.57	0.32	
					10	3.6	32.87	7.52	0.25	
					20	3.6	32.87	7.46	0.26	
					30	3.8	32.88	7.39	0.25	
					40	3.7	32.91	7.39	0.27	
					50	3.7	33.19	6.96	0.07	
					75	5.9	33.86	6.47	0.07	
					100	10.9	35.05	5.77	0.12	
					150					
					200					
					250					
				(138M)	BOTTOM	10.2				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
45	9-III-66	0605	40° 15'	67°30'	1	3.5	32.93	7.46	0.28				
					10	4.0	33.94	7.43	0.30				
					20	9.2	34.24	6.51	0.38				
					30	11.2	35.11	5.89	0.23				
					40	11.8	35.28	5.73	0.32				
					50	12.1	35.46	5.74	0.31				
					75	12.3	35.49	5.61	0.14				
					100	12.3	35.49	5.37	0.13				
					150	12.2	35.50	5.30					
					200	10.7	35.32	3.51					
					250	9.2	35.19	3.24					
					BOTTOM								
46	9-III-66	0745	40°00'	67°31'	1	5.3	33.70	6.91	0.27				
					10	6.0	33.70	7.00	0.34				
					20	10.0	34.33	6.45	0.33				
					30	10.3	34.97	6.19	0.15				
					40	10.9	34.98	6.00	0.23				
					50	11.6	35.05	5.87	0.17				
					75	11.8	35.19	5.66	0.12				
					100	11.2	35.20	5.69	0.15				
					150	11.2	35.38	5.38					
					200	10.4	35.35	3.85					
					250	8.2	34.91	4.17					
					BOTTOM								
47	9-III-66	1030	39°30'	67°30'	1	9.5	34.79	6.28	0.47				
					10	9.5	34.79	6.11	0.42				
					20	9.5	34.80	6.20	0.43				
					30	9.9	34.81	6.14	0.46				
					40	10.8	35.15	5.77	0.22				
					50	10.9	35.21	5.68	0.15				
					75	10.8	35.21	5.68	0.19				
					100	10.9	35.22	5.62	0.15				
					150	11.1	35.27	5.59					
					200	11.1	35.30	5.58					
					250	10.0	35.37	3.60					
					BOTTOM								
48	9-III-66	1420	39°30'	68°30'	1	7.0	34.00	7.01	1.15				
					10	7.7	34.06	6.96	1.30				
					20	9.2	34.56	6.58	1.04				
					30	9.4	34.65	6.44	0.99				
					40	9.7	34.69	6.39	0.61				
					50	9.9	34.91	6.17	0.33				
					75	10.8	35.12	5.75	0.22				
					100	10.8	35.11	5.75	0.20				
					150	11.1	35.29	4.68					
					200	9.7	35.20	3.40					
					250	7.9	35.08	3.42					
					BOTTOM								

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
49	9.III.66	1730	40°00'	68°30'	1	3.4	32.81	7.52	0.34	
					10	3.3	32.76	7.53	0.43	
					20	3.3	32.76	7.51	0.39	
					30	3.2	32.77	7.50	0.31	
					40	3.1	32.77	7.42	0.41	
					50	3.0	32.79	7.48	0.32	
					75	3.8	33.09	6.83	0.17	
					100	4.6	33.56	6.15	0.05	
					150	9.1	34.96	5.12		
					200	7.2	34.86	4.42		
					250	6.0	34.55	5.12		
					BOTTOM					
50	9.III.66	1910	40°15'	68°31'	1	3.5	32.74	7.52	0.31	
					10	3.4	32.72	7.58	0.24	
					20	3.3	32.72	7.63	0.33	
					30	3.3	32.72	7.49	0.28	
					40	3.2	32.73	7.51	0.36	
					50	3.2	32.74	7.58	0.38	
					75	3.2	32.77	7.35	0.49	
					100	3.3	33.03	6.87	0.23	
					150	4.7	33.75	6.04		
					200					
					250					
				(168M)	BOTTOM	5.2				
51	9.III.66	2045	40°30'	68°30'	1	3.5	32.74	7.47	0.33	
					10	3.7	32.72	7.53	0.37	
					20	3.7	32.74	7.56	0.28	
					30	3.7	32.75	7.42	0.44	
					40	3.7	32.76	7.39	0.52	
					50	3.6	32.77	7.39	0.59	
					75	3.6	32.77	7.40	0.67	
					100					
					150					
					200					
					250					
				(97M)	BOTTOM	3.5				
52	9.III.66	2355	41°00'	68°30'	1	3.7	32.98	7.39	0.66	
					10	3.8	32.98	7.34	0.61	
					20	3.8	32.98	7.33	0.64	
					30	3.8	32.98	7.26	0.68	
					40	3.9	32.98	7.33	0.67	
					50					
					75					
					100					
					150					
					200					
					250					
				(49M)	BOTTOM	3.9				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
53	10-III-66	0340	41°30'	68°30'	1	4.1	33.05	7.35	0.33				
					10	4.1	33.03	7.41	0.34				
					20	4.1	33.03	7.32	0.32				
					30	4.1	33.03	7.26	0.32				
					40	4.1	33.03	7.27	0.28				
					50	4.1	33.03	7.27	0.33				
					75	4.1	33.04	7.29	0.28				
					100								
					150								
					200								
					250								
				(84 M)	BOTTOM	4.1							
54	10-III-66	0410	41°45'	68°30'	1	3.2	32.79	7.51	0.21				
					10	3.2	32.78	7.38	0.18				
					20	3.2	32.78	7.38	0.30				
					30	3.2	32.82	7.31	0.28				
					40	3.2	32.82	7.27	0.29				
					50	3.2	32.83	7.34	0.31				
					75	3.2	32.84	7.30	0.31				
					100	3.3	32.86	7.22	0.21				
					150	4.1	33.18	6.41					
					200		33.60						
					250								
				(107 M)	BOTTOM	5.1							
55	10-III-66	0545	42°00'	68°30'	1	2.8	32.56	7.66	0.42				
					10	2.9	32.55	7.66	0.42				
					20	3.0	32.65	7.77	0.42				
					30	3.1	32.68	7.38	0.29				
					40	3.1	32.71	7.38	0.20				
					50	3.1	32.78	7.38	0.21				
					75	3.6	32.92	6.79	0.07				
					100	3.7	32.97	6.66	0.07				
					150	3.9	33.09	6.58					
					200								
					250								
				(180 M)	BOTTOM	4.0							
56	10-III-66	0845	42°30'	68°30'	1	2.7	32.49	7.50	0.33				
					10	2.7	32.48	7.64	0.29				
					20	2.8	32.51	7.57	0.36				
					30	3.0	32.66	7.41	0.40				
					40	3.0	32.69	7.47	0.19				
					50	3.1	32.75	7.46	0.25				
					75	3.7	32.97	6.80	0.11				
					100	4.5	33.24	6.22	0.07				
					150	5.2	33.64	5.13					
					200	5.9							
					250								
				(201 M)	BOTTOM	5.9							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
57	10.III.66	1135	43°00'	68°30'	1	1.8	32.22	7.81	0.41	
					10	1.8	32.22	7.73	0.41	
					20	1.9	32.24	7.67	0.37	
					30	1.9	32.24	7.60	0.29	
					40	1.9	32.28	7.60	0.25	
					50	2.0	32.31	7.50	0.23	
					75	2.1	32.43	7.30	0.14	
					100	2.8	32.74	6.91	0.08	
					150	4.7	33.49	5.46		
					200					
					250					
				(188M)	BOTTOM	5.1				
58	10.III.66	1420	43°30'	68°30'	1	2.3	32.33	7.72	0.30	
					10	2.3	32.31	7.57	0.32	
					20	2.3	32.31	7.57	0.33	
					30	2.3	32.31	7.57	0.33	
					40	2.3	32.31	7.61	0.34	
					50	2.3	32.32	7.61	0.35	
					75	2.8	32.34	7.54	0.20	
					100	3.0	32.55	7.15	0.08	
					150					
					200					
					250					
				(129M)	BOTTOM	3.1				
59	10.III.66	1645	44°00'	68°30'	1	2.2	32.37	7.57	0.25	
					10	2.1	32.37	7.47	0.30	
					20	2.0	32.37	7.40	0.27	
					30	2.0	32.37	7.54	0.22	
					40	2.0	32.38	7.36	0.19	
					50	2.0	32.40	7.38	0.21	
					75	2.0				
					100					
					150					
					200					
					250					
				(76M)	BOTTOM	2.1				
60	10.III.66	2140	43°30'	69°30'	1	2.7	32.26	7.88	0.32	
					10	2.5	32.26	7.82	0.31	
					20	2.3	32.25	7.70	0.40	
					30	2.3	32.26	7.70	0.42	
					40	2.3	32.31	7.61	0.32	
					50	2.3	32.31	7.59	0.30	
					75	2.4	32.45	7.34	0.15	
					100	2.9	32.53	7.13	0.10	
					150					
					200					
					250					
				(143M)	BOTTOM	3.1				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
61	11.III.66	0015	43°00'	69°30'	1	2.4	32.27	7.82	0.50				
					10	2.2	32.24	7.75	0.46				
					20	2.2	32.24	7.73	0.43				
					30	2.2	32.25	7.65	0.48				
					40	2.2	32.30	7.54	0.26				
					50	2.4	32.37	7.51	0.21				
					75	2.8	32.62	7.02	0.13				
					100	3.5	32.87	6.72	0.10				
					150								
					200								
					250								
				(148M)	BOTTOM	4.8							
62	11.III.66	0410	43°00'	70°30'	1	2.9	32.54	7.55	0.35				
					10	2.8	32.54	7.67	0.41				
					20	2.7	32.55	7.70	0.45				
					30	2.7	32.56	7.56	0.39				
					40	2.6	32.56	7.58	0.35				
					50	2.5	32.56	7.58	0.31				
					75	2.3	32.57	7.52	0.30				
					100								
					150								
					200								
					250								
				(99M)	BOTTOM	2.3							
63	11.III.66	0640	42°30'	70°30'	1	2.2	30.94	7.75	0.28				
					10	2.2	32.43	7.76	0.40				
					20	2.1	32.51	7.68	0.29				
					30	2.1	32.55	7.58	0.38				
					40	2.1	32.57	7.58	0.32				
					50	2.1	32.58	7.62	0.30				
					75	2.2	32.60	7.53	0.30				
					100								
					150								
					200								
					250								
				(95M)	BOTTOM	2.2							
64	11.III.66	0905	42°00'	70°30'	1	2.0	32.54	7.67	0.36				
					10	2.0	32.56	7.70	0.24				
					20	1.9	32.57	7.61	0.23				
					30	1.9	32.57	7.63	0.22				
					40								
					50								
					75								
					100								
					150								
					200								
					250								
				(39M)	BOTTOM	1.9							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
65	11·III·66	1345	42°30'	69°30'	1	2.2	32.33	7.76	0.30				
					10	2.2	32.32	7.69	0.28				
					20	2.2	32.33	7.62	0.31				
					30	2.3	32.40	7.55	0.30				
					40	2.8	32.59	7.55	0.37				
					50	2.9	32.67	7.47	0.25				
					75	3.0	32.88	7.06	0.12				
					100	3.9	33.14	6.63	0.05				
					150	4.7	33.16	5.35					
					200	5.1	33.88	4.52					
					250	5.2	34.01	4.29					
				(263M)	BOTTOM	5.2							
66	11·III·66	1630	42°00'	69°30'	1	2.3	32.37	7.84	0.36				
					10	2.3	32.37	7.62	0.36				
					20	2.3	32.41	7.56	0.35				
					30	2.4	32.48	7.44	0.31				
					40	2.4	32.54	7.35	0.21				
					50	2.3	32.60	7.34	0.19				
					75	2.3	32.66	7.28	0.18				
					100	2.6	32.77	6.93	0.10				
					150	4.4	33.33	5.89					
					200	5.0	33.89	4.43					
					250								
				(215M)	BOTTOM	5.1							
67	11·III·66	1915	41°30'	69°30'	1	2.5	32.62	7.54	0.23				
					10	2.6	32.60	7.55	0.23				
					20	2.6	32.60	7.49	0.26				
					30	2.6	32.61	7.49	0.26				
					40	2.6	32.61	7.40	0.24				
					50								
					75								
					100								
					150								
					200								
					250								
				(44M)	BOTTOM	2.6							
68	11·III·66	2210	41°00'	69°36'	1	2.9	32.65	7.93	0.20				
					10	2.9	32.65	7.79	0.59				
					20	2.9	32.65	7.85	0.68				
					30	2.9	32.65	7.85	0.66				
					40	2.9							
					50								
					75								
					100								
					150								
					200								
					250								
				(42M)	BOTTOM	2.9							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
69	12·III·66	0100	40°30'	69°30'	1	3.3	32.88	7.83	0.52				
					10	3.3	32.88	7.58	0.52				
					20	3.3	32.88	7.58	0.52				
					30	3.3	32.89	7.49	0.49				
					40	3.3	32.88	7.58	0.52				
					50	3.3	32.88	7.54	0.51				
					75								
					100								
					150								
					200								
					250								
				(63m)	BOTTOM	3.3							
70	12·III·66	0340	40°00'	69°30'	1	3.7	32.67	7.69	0.43				
					10	3.7	32.66	7.65	0.43				
					20	3.7	32.68	7.61	0.40				
					30	3.7	32.77	7.46	0.34				
					40	3.5	32.80	7.48	0.26				
					50	3.2	32.81	7.46	0.31				
					75	3.4	32.98	7.06	0.15				
					100	3.9	33.11	6.93	0.15				
					150								
					200								
					250								
				(120m)	BOTTOM	3.9							
71	12·III·66	0515	39°45'	69°30'	1	3.0	32.79	7.58	0.45				
					10	3.0	32.80	7.61	0.47				
					20	3.2	32.84	7.62	0.49				
					30	3.6	32.99	7.59	0.47				
					40	3.9	33.16	7.48	0.36				
					50	4.0	33.31	7.30	0.31				
					75	4.9	33.81	6.63	0.16				
					100	8.2	34.71	5.66	0.11				
					150	5.2	34.28	5.56					
					200	7.5	34.83	4.21					
					250	4.9	34.57	5.22					
					BOTTOM								
72	12·III·66	0700	39°30'	69°30'	1	4.1	33.02	7.68	1.36				
					10	4.1	33.02	7.68	1.44				
					20	4.1	33.05	7.75	1.78				
					30	4.2	33.13	7.50	1.12				
					40	3.9	33.18	7.37	0.53				
					50	4.0	33.25	7.17	0.54				
					75	5.3	33.96	5.80	0.08				
					100	6.5	34.34	5.44	0.04				
					150	8.8	35.12	3.46					
					200	7.8	34.97	3.77					
					250	6.2	34.84	4.45					
					BOTTOM								

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l
73	12.III.66	1105	39°30'	70°30'	1	2.8	32.66	7.87	0.28	
					10	2.8	32.65	7.73	0.31	
					20	2.7	32.65	7.80	0.33	
					30	2.7	32.65	7.73	0.36	
					40	2.6	32.67	7.60	0.28	
					50	2.6	32.83	7.47	0.25	
					75	3.6	33.37	7.02	0.25	
					100	6.0	34.09	6.12	0.15	
					150	8.7	34.92	4.40		
					200	5.9	34.70	4.73		
					250	5.2	34.74	4.85		
					BOTTOM					
74	12.III.66	1230	39°45'	70°30'	1	3.7	32.74	7.70	0.31	
					10	3.7	32.72	7.63	0.43	
					20	3.7	32.72	7.56	0.44	
					30	3.7	32.73	7.58	0.36	
					40	3.6	32.74	7.51	0.26	
					50	3.2	32.78	7.43	0.17	
					75	3.3	33.01	6.99	0.33	
					100	4.1	33.52	6.33	0.09	
					150	6.5	34.29	5.47		
					200	6.1	34.55	5.08		
					250	5.2	34.59	5.21		
					BOTTOM					
75	12.III.66	1405	39°59'	70°30'	1	3.4	32.77	7.66	0.34	
					10	3.3	32.73	7.53	0.37	
					20	3.3	32.75	7.53	0.34	
					30	3.3	32.76	7.55	0.33	
					40	3.3	32.75	7.41	0.34	
					50	3.2	32.76	7.34	0.23	
					75	3.3	32.92	7.02	0.24	
					100	3.8	33.23	6.55	0.15	
					150	4.5	33.77	6.03		
					200	5.1	34.11	5.64		
					250	5.4	34.78	5.20		
					BOTTOM					
76	12.III.66	1655	40°30'	70°30'	1	2.3	32.44	7.64	0.37	
					10	2.3	32.41	7.62	0.37	
					20	2.3	32.41	7.75	0.35	
					30	2.2	32.42	7.60	0.35	
					40	2.1	32.47	7.73	0.47	
					50	2.0	32.49	7.71	0.54	
					75					
					100					
					150					
					200					
					250					
				(70M)	BOTTOM	2.0				

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
77	12.III.66	1920	41°00'	70°30'	1	1.8	32.38	7.69	0.77				
					10	1.8	32.38	7.79	0.76				
					20	1.9	32.38	7.72	0.83				
					30	1.9	32.39	7.78	0.73				
					40	1.9	32.39	7.71	0.64				
					50								
					75								
					100								
					150								
					200								
					250								
				(49M)	BOTTOM	1.9							
78	12.III.66	2310	41°00'	71°30'	1	3.5	32.16	8.52	6.78				
					10	3.5	32.16	8.39	4.34				
					20	3.6	32.16	8.34	5.76				
					30	3.8	32.32	7.84	12.72				
					40	4.2	32.63	7.24	1.65				
					50	4.2							
					75								
					100								
					150								
					200								
					250								
				(50M)	BOTTOM	4.2							
79	13.III.66	0150	40°30'	71°30'	1	4.0	32.59	7.62	0.31				
					10	4.0	32.59	7.43	0.29				
					20	4.0	32.59	7.41	0.26				
					30	4.0	32.65	7.41	0.22				
					40	4.0	32.61	7.41	0.26				
					50	4.0	32.61	7.36	0.24				
					75	4.0							
					100								
					150								
					200								
					250								
				(75M)	BOTTOM	4.0							
80	13.III.66	0440	40°00'	71°30'	1	2.7	32.52	7.86	0.24				
					10	2.7	32.52	7.81	0.26				
					20	2.7	32.53	7.82	0.26				
					30	2.5	32.52	7.77	0.26				
					40	2.2	32.52	7.84	0.25				
					50	3.3	32.69	7.70	0.29				
					75	3.4	32.80	7.39	0.35				
					100								
					150								
					200								
					250								
				(96M)	BOTTOM	3.1							

ALB. IV CRUISE NO. 66 - 2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
81	13.III.66	0630	39°45'	71°30'	1	3.3	32.80	7.65	0.33				
					10	3.4	32.80	7.65	0.34				
					20	3.4	32.80	7.66	0.30				
					30	3.4	32.80	7.48	0.40				
					40	3.4	32.78	7.65	0.35				
					50	3.4	32.78	7.62	0.30				
					75	2.9	32.82	7.34	0.19				
					100	4.1	33.37	6.55	0.08				
					150	5.6	34.07	5.83					
					200	5.8	34.29	5.38					
					250	6.1	34.63	4.96					
					BOTTOM								
82	13.III.66	0810	39°30'	71°30'	1	3.2	32.74	7.74	0.35				
					10	3.2	32.72	7.66	0.26				
					20	3.2	32.72	7.84	0.30				
					30	3.1	32.72	7.63	0.38				
					40	3.1	32.73	7.63	0.31				
					50	2.9	32.79	7.51	0.26				
					75	2.7	32.83	7.37	0.20				
					100	2.8	33.03	7.03	0.11				
					150	4.6	34.01	5.97					
					200	5.8	34.49	5.16					
					250	5.3	34.64	5.02					
					BOTTOM								
83	13.III.66	1250	39°00'	72°30'	1	3.8	32.81	7.78	0.63				
					10	3.7	32.79	7.69	0.44				
					20	3.7	32.79	7.63	0.41				
					30	3.7	32.79	7.63	0.48				
					40	3.7	32.79	7.61	0.49				
					50	3.7	32.79	7.52	0.45				
					75	3.3	32.88	7.36	0.30				
					100	4.2	33.33	6.67	0.09				
					150	5.3	33.97	5.88					
					200	6.8	34.50	5.08					
					250	6.1	34.63	4.99					
					BOTTOM								
84	13.III.66	1430	39°15'	72°30'	1	3.7	32.79	7.70	0.45				
					10	3.5	32.77	7.66	0.43				
					20	3.5	32.78	7.58	0.37				
					30	3.4	32.78	7.58	0.40				
					40	3.4	32.78	7.50	0.36				
					50	3.3	32.80	7.50	0.34				
					75	3.2	33.08	7.21	0.15				
					100	4.2	33.69	6.34	0.10				
					150								
					200								
					250								
				(148M)	BOTTOM	6.2							

ALB. IV CRUISE NO. 66-2

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLOROPHYLL mg./m³	PO_4-P µg.at./l			
85	13.III.66	1600	39°30'	72°30'	1	4.5	32.85	7.65	0.37				
					10	4.5	32.84	7.50	0.37				
					20	4.5	32.84	7.47	0.38				
					30	4.4	32.91	7.40	0.31				
					40	4.6	33.00	7.27	0.27				
					50	5.1	33.04	7.10	0.21				
					75	5.1	33.20	6.82	0.22				
					100	5.1	33.21	6.69	0.23				
					150								
					200								
					250								
				(113m)	BOTTOM	5.1							
86	13.III.66	1900	40°00'	72°30'	1	4.6	32.85	7.22	0.52				
					10	4.7	32.85	7.34	0.52				
					20	4.7	32.87	7.31	0.40				
					30	4.8	32.88	7.27	0.34				
					40	4.8	32.88	7.24	0.28				
					50	4.9	32.96	6.97	0.22				
					75								
					100								
					150								
					200								
					250								
				(66m)	BOTTOM	5.1							
87	13.III.66	2140	40°30'	72°30'	1	3.0	32.32	7.93	0.68				
					10	3.0	32.32	7.88	0.65				
					20	3.2	32.34	7.84	0.75				
					30	3.5	32.54	7.42	2.65				
					40	3.5	32.56	7.31	3.33				
					50								
					75								
					100								
					150								
					200								
					250								
				(45m)	BOTTOM	3.5							
					1								
					10								
					20								
					30								
					40								
					50								
					75								
					100								
					150								
					200								
					250								
					BOTTOM								