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ENVIRONMENTAL OBSERVATIONS ON CONTINENTAL SHELF NOVA SCOTIA TO LONG ISLAND, MAY - JUNE 1966 ALBATROSS IV CRUISE 66-7

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

Bureau of Commercial Fisheries
Biological Laboratory
Woods Hole, Massachusetts
Laboratory Reference No. 66-7
24 August 1966

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ENVIRONMENTAL OBSERVATIONS ON CONTINENTAL SHELF NOVA SCOTIA TO LONG ISLAND, MAY - JUNE 1966

ALBATROSS IV CRUISE 66-7

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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 66-7, 24 May - 7 June 1966). This is the eighth 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.

8/24/66

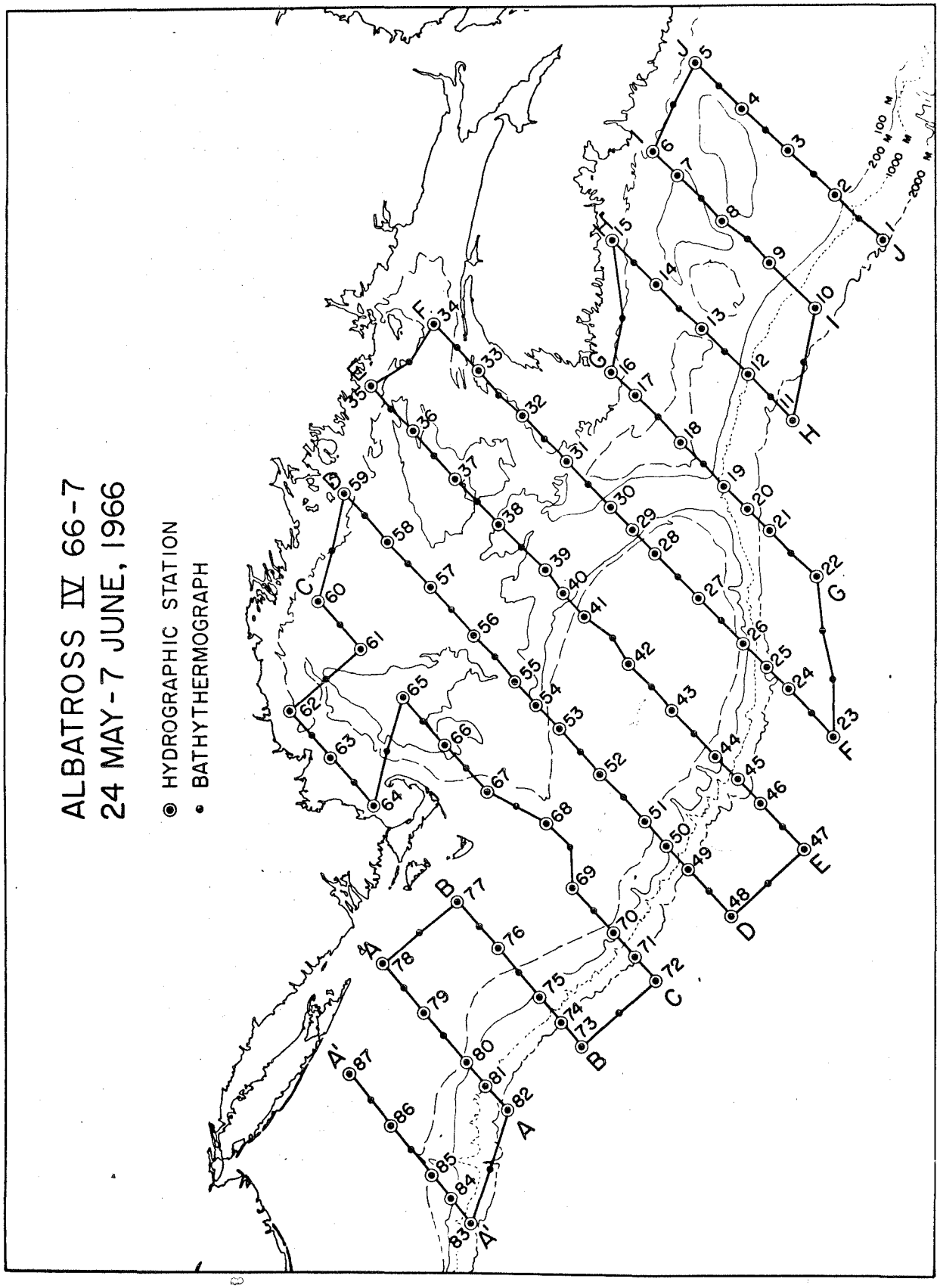
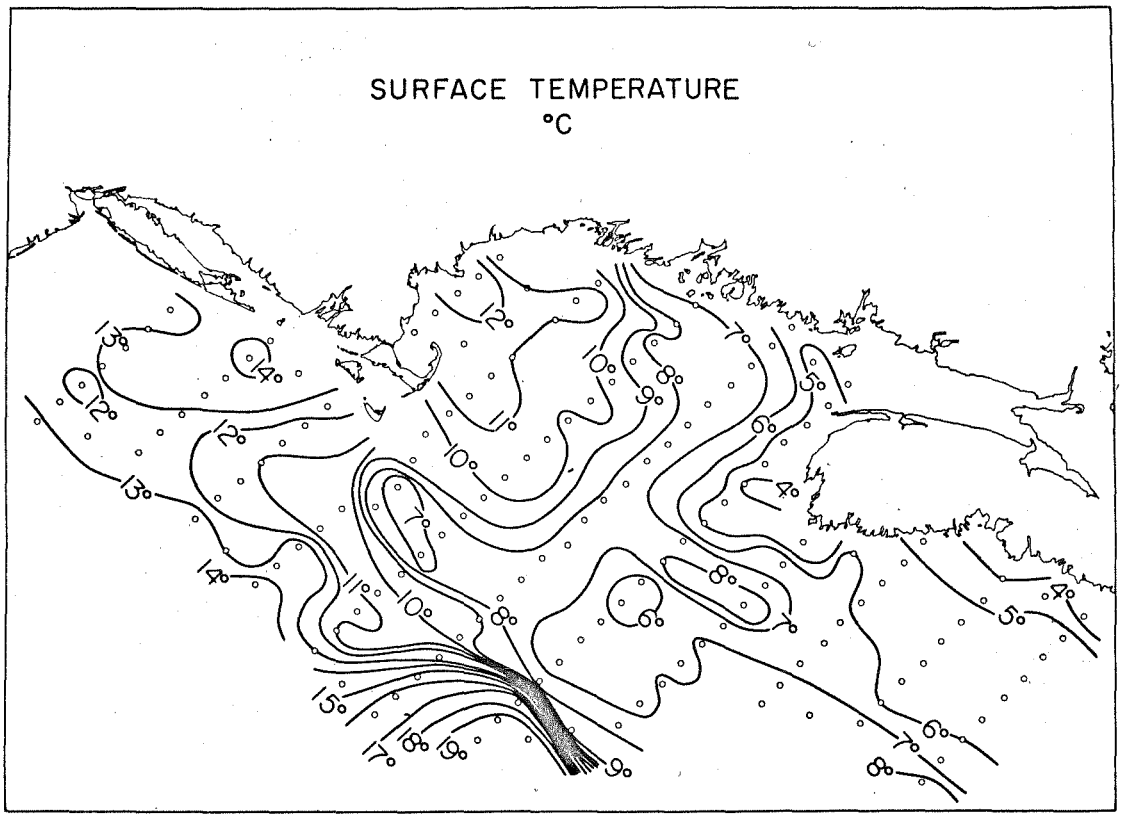

ALBATROSS IV 66-7
24 MAY-7 JUNE, 1966
HYDROGRAPHIC STATION
BATHYTHERMOGRAPH
100 M
200 M
1000 M
2000 M

FIGURE I



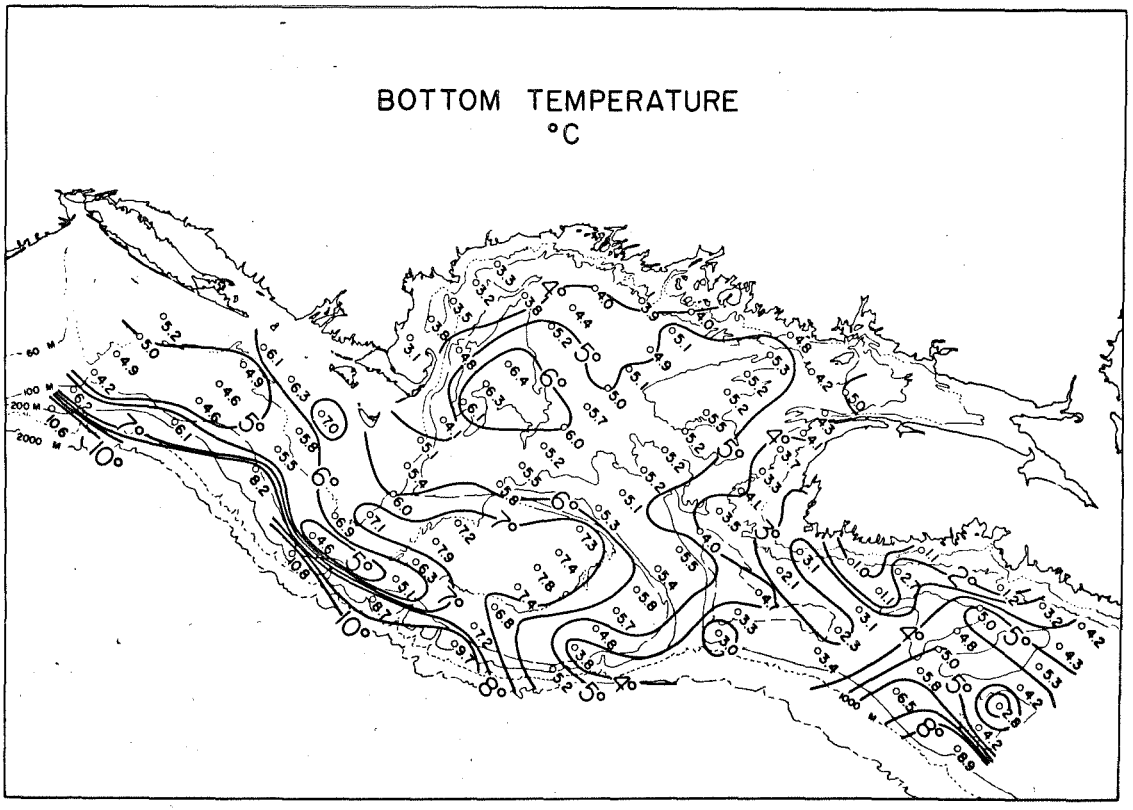
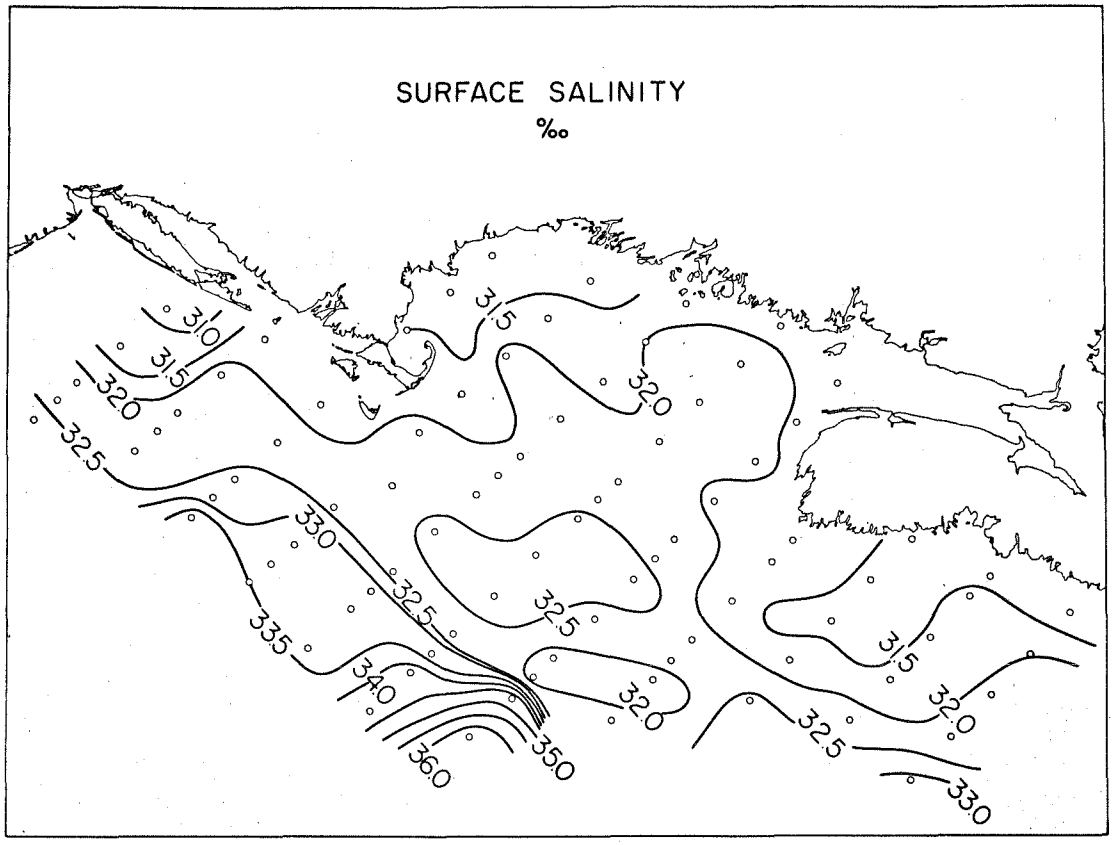


FIGURE 2


SURFACE SALINITY
‰
31.0
31.5
32.0
32.5
33.0
33.5
34.0
36.0
35.0
31.5
32.0
32.5
32.0
32.5
31.5
32.0
32.5
33.0

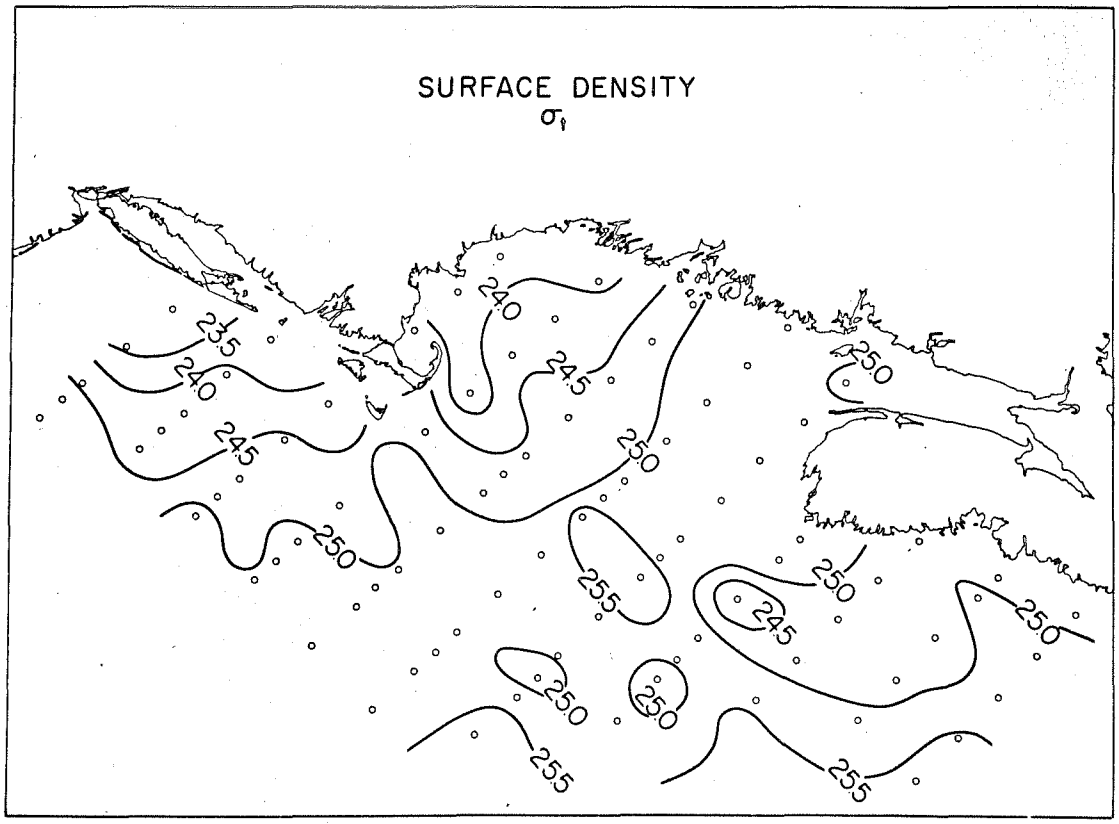

SURFACE DENSITY
σ_1
23.5
24.0
24.5
25.0
24.0
24.5
25.0
25.5
25.0
25.0
24.5
25.0
25.0
25.5
25.5

FIGURE 3.

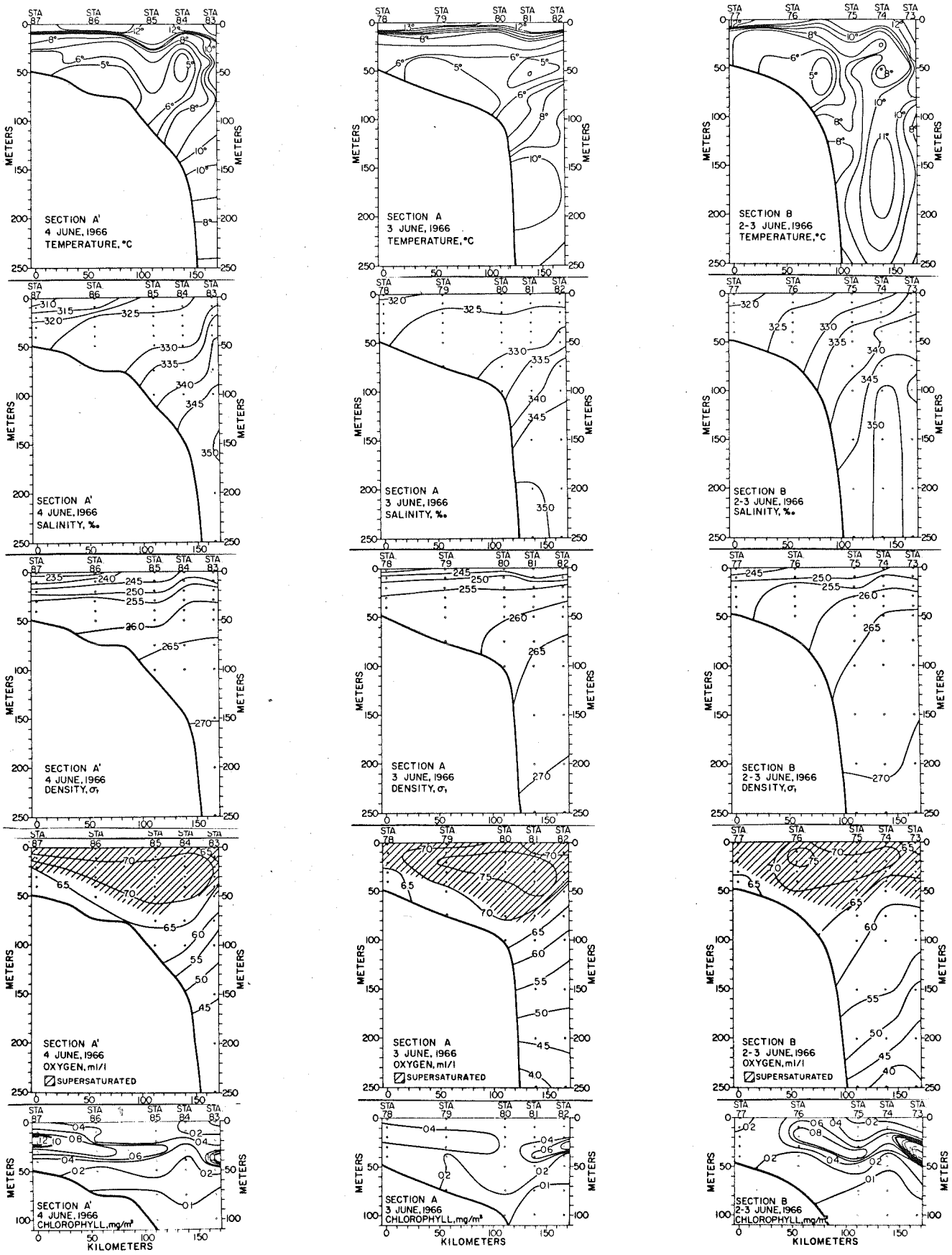

SECTION A'
4 JUNE, 1966
TEMPERATURE, °C
SECTION A
3 JUNE, 1966
TEMPERATURE, °C
SECTION B
2-3 JUNE, 1966
TEMPERATURE, °C
SECTION A'
4 JUNE, 1966
SALINITY, ‰
SECTION A
3 JUNE, 1966
SALINITY, ‰
SECTION B
2-3 JUNE, 1966
SALINITY, ‰
SECTION A'
4 JUNE, 1966
DENSITY, σt
SECTION A
3 JUNE, 1966
DENSITY, σt
SECTION B
2-3 JUNE, 1966
DENSITY, σt
SECTION A'
4 JUNE, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION A
3 JUNE, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION B
2-3 JUNE, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION A'
4 JUNE, 1966
CHLOROPHYLL, mg/m³
SECTION A
3 JUNE, 1966
CHLOROPHYLL, mg/m³
SECTION B
2-3 JUNE, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 4

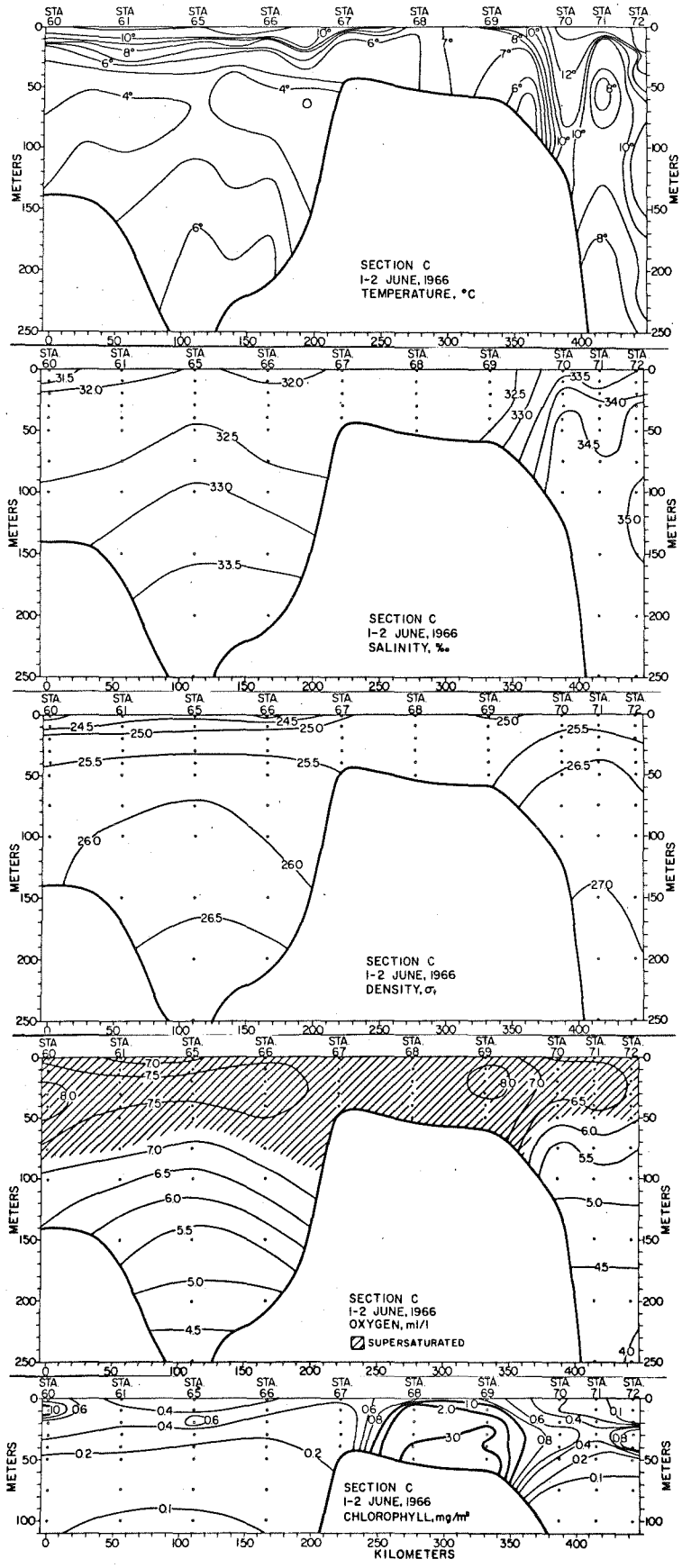

SECTION C
1-2 JUNE, 1966
TEMPERATURE, °C
SECTION C
1-2 JUNE, 1966
SALINITY, ‰
SECTION C
1-2 JUNE, 1966
DENSITY, σ_t
SECTION C
1-2 JUNE, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION C
1-2 JUNE, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 5

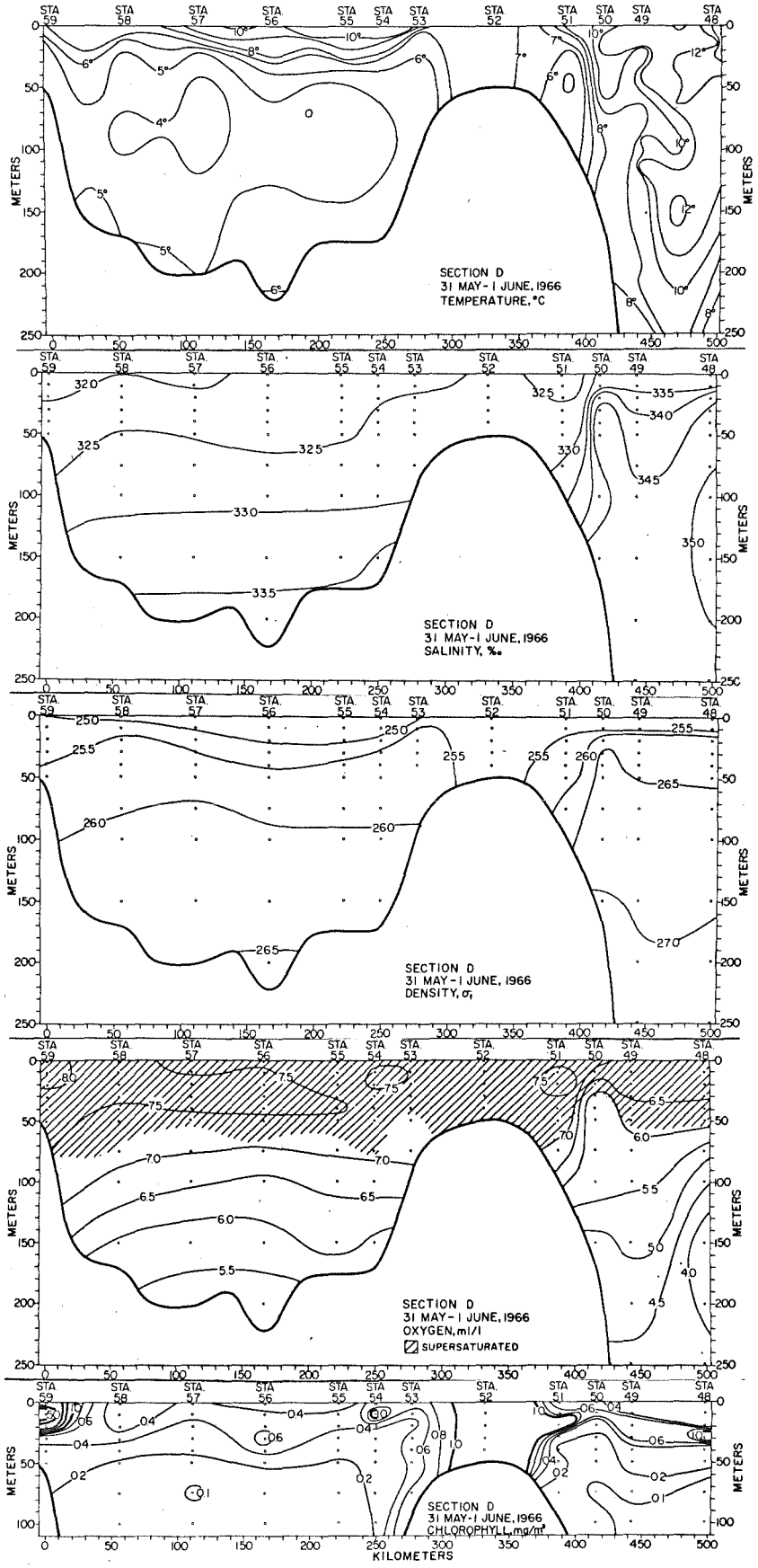

SECTION D
31 MAY-1 JUNE, 1966
TEMPERATURE, °C
SECTION D
31 MAY-1 JUNE, 1966
SALINITY, ‰
SECTION D
31 MAY-1 JUNE, 1966
DENSITY, σt
SECTION D
31 MAY-1 JUNE, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION D
31 MAY-1 JUNE, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 6

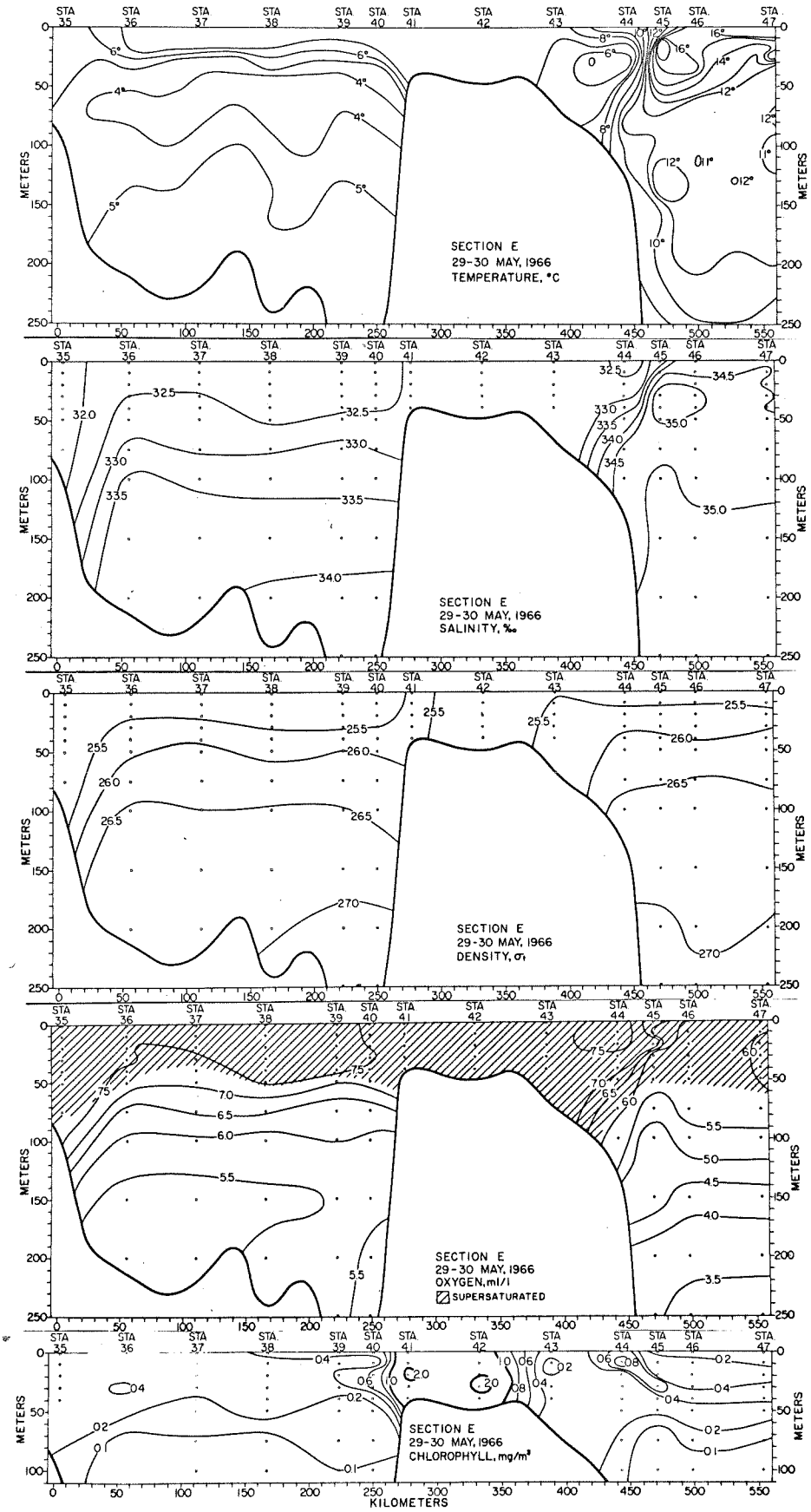

SECTION E
29-30 MAY, 1966
TEMPERATURE, °C
SECTION E
29-30 MAY, 1966
SALINITY, ‰
SECTION E
29-30 MAY, 1966
DENSITY, σt
SECTION E
29-30 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION E
29-30 MAY, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 7

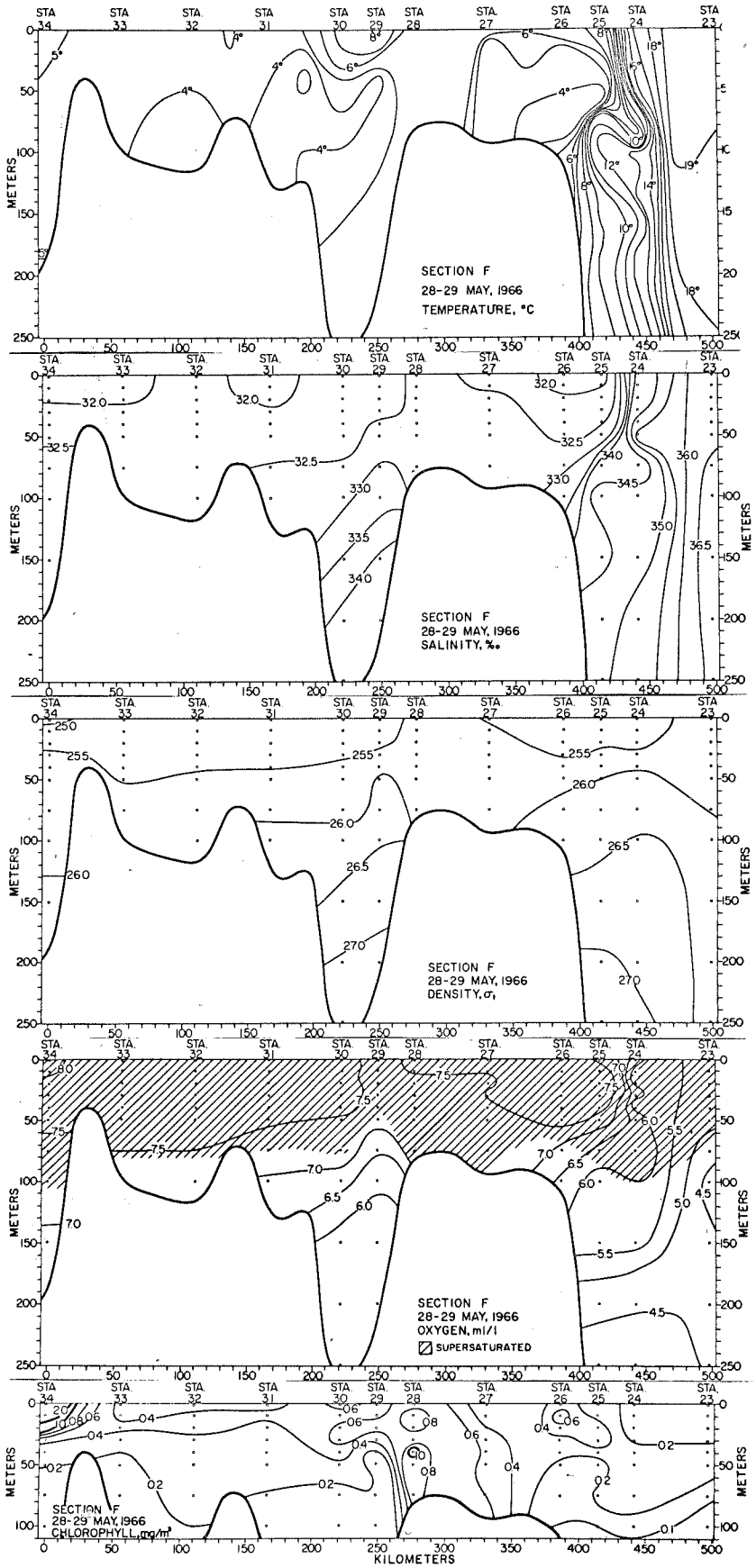

SECTION F
28-29 MAY, 1966
TEMPERATURE, °C
SECTION F
28-29 MAY, 1966
SALINITY, ‰
SECTION F
28-29 MAY, 1966
DENSITY, σ_t
SECTION F
28-29 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION F
28-29 MAY, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 8

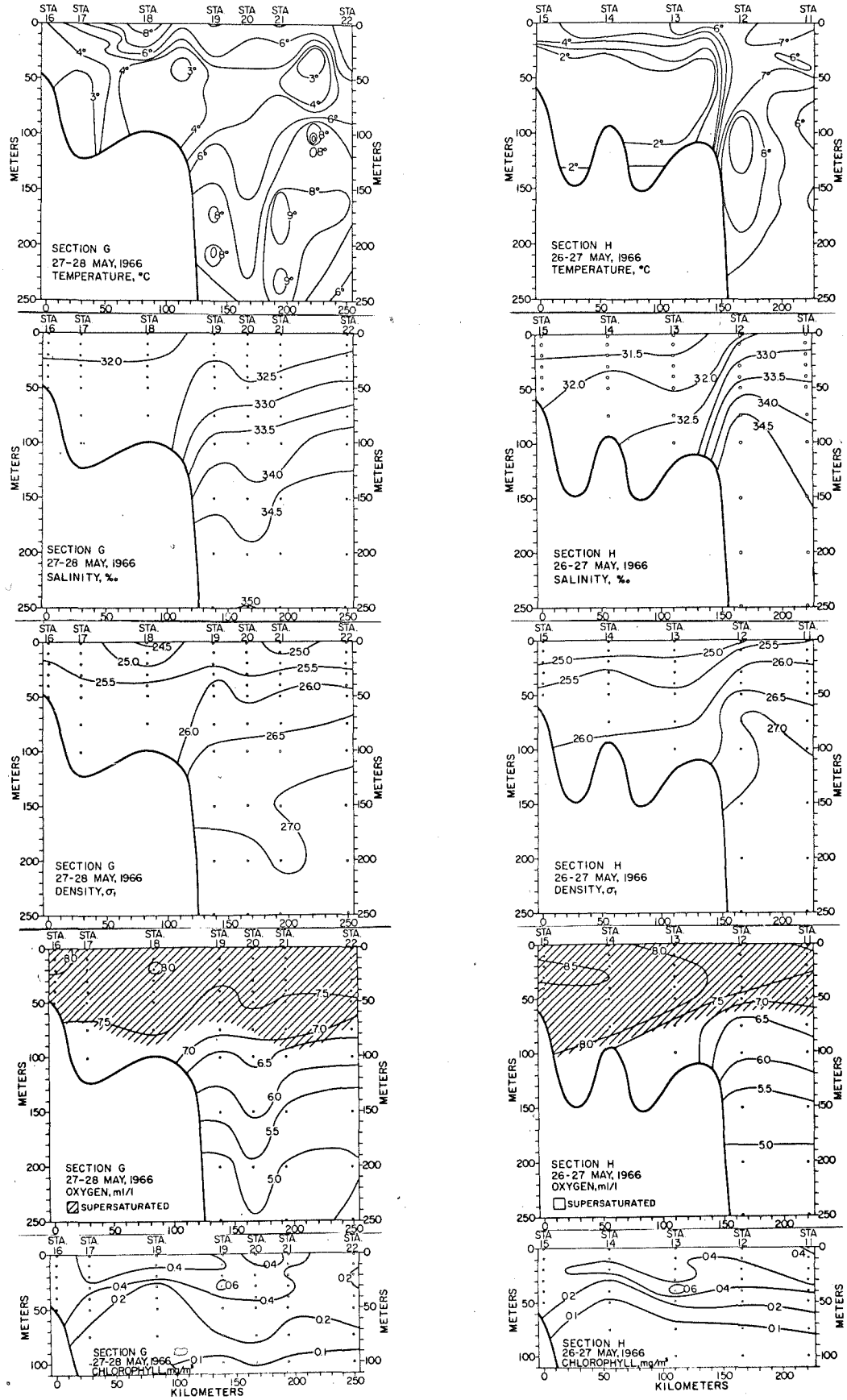

SECTION G
27-28 MAY, 1966
TEMPERATURE, °C
SECTION H
26-27 MAY, 1966
TEMPERATURE, °C
SECTION G
27-28 MAY, 1966
SALINITY, ‰
SECTION H
26-27 MAY, 1966
SALINITY, ‰
SECTION G
27-28 MAY, 1966
DENSITY, σt
SECTION H
26-27 MAY, 1966
DENSITY, σt
SECTION G
27-28 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION H
26-27 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION G
27-28 MAY, 1966
CHLOROPHYLL, mg/m³
SECTION H
26-27 MAY, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 9

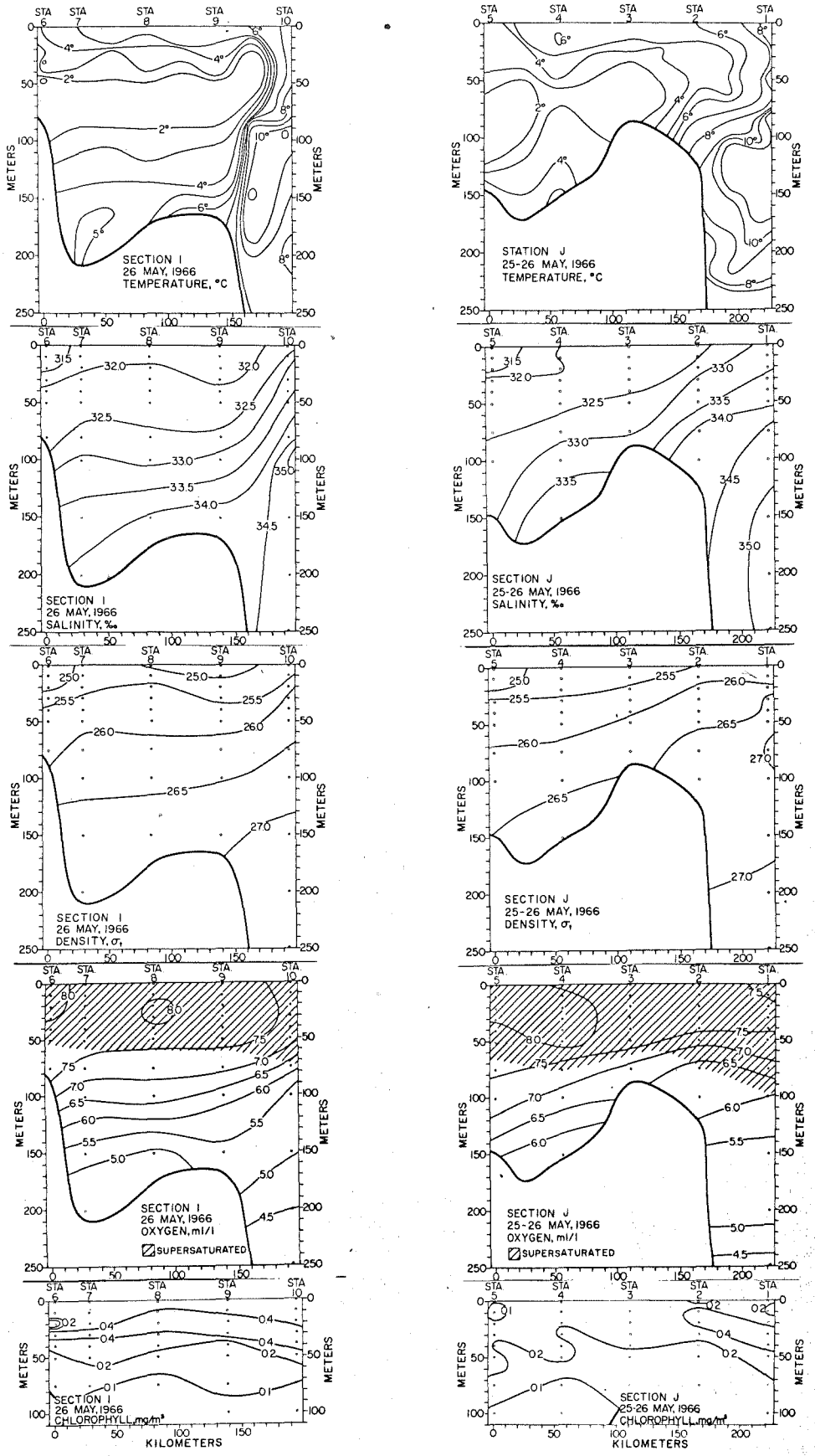

SECTION I
26 MAY, 1966
TEMPERATURE, °C
STATION J
25-26 MAY, 1966
TEMPERATURE, °C
SECTION I
26 MAY, 1966
SALINITY, ‰
SECTION J
25-26 MAY, 1966
SALINITY, ‰
SECTION I
26 MAY, 1966
DENSITY, σt
SECTION J
25-26 MAY, 1966
DENSITY, σt
SECTION I
26 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION J
25-26 MAY, 1966
OXYGEN, ml/l
SUPERSATURATED
SECTION I
26 MAY, 1966
CHLOROPHYLL, mg/m³
SECTION J
25-26 MAY, 1966
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 10

ALB. IV CRUISE NO. 66-7

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	25 V 66	2210	42°30'	62°30'	1	8.1	33.03	7.41	0.23	
					10	8.1	33.03	7.48	0.17	
					20	6.4	33.09	7.86	0.30	
					30	6.7	33.88	7.93	0.59	
					40	6.9	33.77	7.58	0.59	
					50	7.3	33.93	7.37	0.24	
					75	8.0	34.78	6.80	0.18	
					100	10.3	34.79	6.00	0.16	
					150	11.8	35.22	5.28		
					200	8.9	35.07	5.30		
					250	7.9	35.06	4.07		
					BOTTOM					
2	26 V 66	0105	43°00'	62°30'	1	6.0	32.39	7.64	0.19	
					10	5.9	32.49	7.75	0.44	
					20	4.9	32.89	7.80	0.53	
					30	4.7	33.02	7.73	0.28	
					40	4.2	33.11	7.53	0.17	
					50	4.1	33.31	7.12	0.17	
					75	6.8	34.06	6.40	0.15	
					100	7.9	34.33	6.13	0.15	
					150					
					200					
					250					
				(124m)	BOTTOM	8.9				
3	26 V 66	0410	43°30'	62°30'	1	5.6	32.13	7.72		
					10	5.6	32.13	7.66	0.22	
					20	4.3	32.22	7.71	0.28	
					30	3.9	32.34	7.89	0.36	
					40	2.8	32.46	7.85	0.24	
					50	2.7	32.65	7.79	0.15	
					75	2.8	32.98	6.97	0.15	
					100					
					150					
					200					
					250					
				(87m)	BOTTOM	2.8				
4	26 V 66	0630	44°00	62°30'	1	5.9	32.00	7.94	0.21	
					10	6.0	32.02	8.11	0.20	
					20	6.0	31.97	8.11	0.21	
					30	5.0	32.42	8.24	0.15	
					40	4.3	32.32	8.27	0.30	
					50	4.0	32.28	8.14	0.22	
					75	3.1	32.89	7.36	0.07	
					100	3.7	33.14	6.68	0.06	
					150	5.2	33.97	5.57		
					200					
					250					
				(152m)	BOTTOM	5.3				

ALB. IV CRUISE NO. 66-7

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLORO PHYLL mg./m³	PO_4-P µg.at./l
5	26 V 66	0915	44°30'	62°30'	1	3.7	31.29	8.14	0.10	
					10	3.7	31.30	8.18	0.08	
					20	3.5	31.40	8.24	0.11	
					30	3.2	32.08	8.07	0.29	
					40	3.1	32.23	7.92	0.19	
					50	2.9	32.31	7.78	0.25	
					75	1.1	32.48	7.60	0.17	
					100	1.2	32.65	7.38	0.09	
					150					
					200					
					250					
				(149 m)	BOTTOM	4.2				
6	26 V 66	1330	44°15'	63°30'	1	4.0	31.32	8.25	0.18	
					10	4.0	31.29	8.11	0.28	
					20	3.5	31.32	8.04	0.10	
					30	3.9	31.92	8.01	0.41	
					40	3.0	32.12	7.94	0.24	
					50	1.0	32.16	7.83	0.11	
					75	1.2	32.43	7.56	0.12	
					100					
					150					
					200					
					250					
				(87 m)	BOTTOM	1.2				
7	26 V 66	1450	44°00'	63°30'	1	4.9	31.74	7.85	0.24	
					10	4.9	31.73	7.80	0.23	
					20	4.6	31.97	7.84	0.25	
					30	3.8	32.07	7.90	0.41	
					40	2.9	32.15	7.75	0.35	
					50	2.0	32.38	7.78	0.24	
					75	1.6	32.63	7.33	0.11	
					100	2.3	33.02	6.51	0.07	
					150	4.3	33.82	5.24		
					200	5.0	34.04	4.68		
					250					
				(209 m)	BOTTOM	5.0				
8	26 V 66	1740	43°30'	63°30'	1	5.7	31.54	7.74	0.24	
					10	4.9	31.78	7.90	0.41	
					20	3.9	32.06	8.05	0.47	
					30	3.3	32.11	8.04	0.39	
					40	3.0	32.23	7.99	0.24	
					50	2.1	32.28	7.76	0.14	
					75	1.4	32.61	7.26	0.07	
					100	2.2	32.94	6.72	0.07	
					150	4.9	34.01	4.98		
					200					
					250					
				(174 m)	BOTTOM	5.0				

ALB. IV CRUISE NO. 66-7

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	26V66	2020	43°00	63°30'	1	5.9	31.55	7.66	0.25	
					10	5.8	31.54	7.63	0.20	
					20	4.6	31.78	7.84	0.51	
					30	4.2	31.87	7.94	0.47	
					40	3.4	32.08	7.87	0.13	
					50	2.1	32.29	7.76	0.12	
					75	1.3	32.64	7.14	0.11	
					100	2.8	33.22	6.08	0.09	
					150	5.0	34.07	5.45		
					200					
					250					
				(168 m)	BOTTOM	6.5				
10	26V66	2310	42°30'	63°30'	1	7.2	32.24	7.40	0.36	
					10	7.2	32.51	7.36	0.24	
					20	7.3	33.00	7.20	0.29	
					30	6.9	33.15	7.45	0.46	
					40	6.9	33.30	7.43	0.61	
					50	7.0	33.54	7.11	0.31	
					75	8.4	34.12	6.31	0.10	
					100	10.9	35.01	5.05	0.03	
					150	9.0	34.85	5.01		
					200	7.9	34.85	4.50		
					250	8.6	34.93	4.10		
					BOTTOM					
11	27V66	0350	42°00'	64°30'	1	7.7	32.60	7.39	0.47	
					10	7.0	32.94	7.54	0.33	
					20	6.3	33.03	7.60	0.34	
					30	6.2	33.10	7.49	0.36	
					40	6.0	33.33	7.29	0.41	
					50	7.3	33.57	7.20	0.27	
					75	6.0	33.91	6.73	0.11	
					100	5.7	34.16	6.25	0.06	
					150	6.1	34.50	5.48		
					200	6.5	34.83	4.87		
					250	6.1	34.91	4.86		
					BOTTOM					
12	27V66	0640	42°30'	64°30'	1	6.6	31.80	7.79	0.21	
					10	6.7	32.52	7.81	0.38	
					20	6.9	–	–	0.43	
					30	6.3	33.15	7.89	0.55	
					40	6.2	33.44	7.53	0.34	
					50	6.1	33.70	7.11	0.22	
					75	7.3	34.50	6.26	0.09	
					100	9.5	34.71	6.07	0.05	
					150	8.6	34.77	5.31		
					200	7.8	34.80	4.89		
					250	6.9	34.79	4.80		
					BOTTOM					

ALB. IV CRUISE NO. 66-7

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	27 V 66	0930	43°00'	64°30'	1	6.2	31.28	7.87	0.32	
					10	6.1	31.35	7.90	0.39	
					20	4.1	31.50	8.14	0.32	
					30	3.6	31.52	8.27	0.34	
					40	2.5	31.66	8.25	0.63	
					50	1.2	31.98	8.16	0.25	
					75	1.1	32.43	7.73	0.08	
					100	1.5	32.64	7.31	0.08	
					150					
					200					
					250					
				(118 m)	BOTTOM	2.3				
14	27 V 66	1210	43°30'	64°30'	1	5.6	31.43	8.11	0.26	
					10	5.3	31.42	8.16	0.24	
					20	3.9	31.50	8.42	0.45	
					30	2.0	31.87	8.50	0.20	
					40	1.2	32.19	8.43	0.15	
					50	1.1	32.30	8.21	0.09	
					75	1.1	32.37	8.02	0.08	
					100					
					150					
					200					
					250					
				(94 m)	BOTTOM	1.1				
15	27 V 66	1500	44°00'	64°30'	1	4.3	31.38	8.45	0.24	
					10	4.2	31.38	8.20	0.30	
					20	3.6	31.43	8.53	0.39	
					30	1.4	31.75	8.54	0.35	
					40	1.2	31.83	8.45	0.22	
					50	1.2	31.94	8.25	0.25	
					75					
					100					
					150					
					200					
					250					
				(69 m)	BOTTOM	1.1				
16	27 V 66	2015	43°15'	65°30'	1	4.3	31.89	8.11	0.48	
					10	3.1	31.94	8.02	0.48	
					20	3.1	31.97	8.01	0.57	
					30	3.1	32.05	7.87	0.49	
					40	3.1	32.11	7.85	0.48	
					50	3.1	32.12	7.74	0.50	
					75					
					100					
					150					
					200					
					250					
				(53 m)	BOTTOM	3.1				

ALB. IV CRUISE NO. 66-7

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	27V66	2145	43°00	65°30'	1	5.5	31.93	7.78	0.22				
					10	4.8	31.95	7.94	0.29				
					20	4.2	31.98	7.94	0.29				
					30	4.0	32.01	7.87	0.40				
					40	3.3	32.05	7.77	0.30				
					50	2.9	32.11	7.74	0.23				
					75	2.2	32.31	7.44	0.15				
					100	2.1	32.33	7.34	0.14				
					150								
					200								
					250								
				(123 m)	BOTTOM	2.1							
18	28V66	0030	42°30'	65°30'	1	8.6	31.54	7.81	0.34				
					10	7.6	31.56	7.93	0.39				
					20	7.1	31.73	8.04	0.45				
					30	5.9	32.09	7.72	0.17				
					40	3.9	32.13	7.56	0.16				
					50	3.6	32.14	7.58	0.17				
					75	3.5	32.19	7.51	0.17				
					100								
					150								
					200								
					250								
				(99 m)	BOTTOM	3.3							
19	28V66	0310	42°00	65°30'	1	7.0	32.34	7.60	0.54				
					10	6.8	32.37	7.59	0.38				
					20	6.3	32.42	7.65	0.45				
					30	6.1	32.57	7.62	0.65				
					40	5.2	32.95	7.42	0.40				
					50	4.2	32.81	7.36	0.30				
					75	4.3	33.11	7.06	0.20				
					100	5.0	33.71	6.46	0.08				
					150	7.1	34.44	5.68					
					200	8.3	34.79	4.85					
					250	6.6	34.70	5.05					
					BOTTOM								
20	28V66	0500	41°45	65°30'	1	6.6	32.23	7.63	0.31				
					10	6.2	32.25	7.71	0.40				
					20	6.0	32.32	7.67	0.40				
					30	5.9	32.34	7.70	0.42				
					40	5.1	32.39	7.69	0.49				
					50	4.7	32.63	7.63	0.34				
					75	4.4	33.18	7.17	0.24				
					100	5.4	33.73	6.60	0.11				
					150	5.9	34.12	6.09					
					200	6.8	34.51	5.53					
					250	7.1	35.02	4.80					
					BOTTOM								

ALB. IV CRUISE NO. 66-7

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	28 V 66	0630	41°30'	65°30'	1	7.0	31.60	7.44	0.42				
					10	6.8	31.82	7.78	0.41				
					20	5.9	32.11	7.89	0.37				
					30	5.2	32.42	7.81	0.43				
					40	5.1	32.75	7.57	0.39				
					50	5.0	32.85	7.43	0.23				
					75	5.1	33.40	7.34	0.17				
					100	6.0	33.90	6.25	0.09				
					150	8.1	34.73	5.32					
					200	9.0	34.74	4.97					
					250	8.8	34.83	4.53					
					BOTTOM								
22	28 V 66	0940	41°00'	65°29.5'	1	7.5	32.19	7.57	0.36				
					10	7.7	32.31	7.59	0.31				
					20	7.6	32.52	7.58	0.17				
					30	7.4	32.71	7.57	0.20				
					40	6.9	32.96	7.64	0.33				
					50	6.0	33.16	7.49	0.36				
					75	5.7	33.77	6.73	0.18				
					100	6.6	34.27	6.15	0.06				
					150	7.9	34.74	5.03					
					200	7.0	34.73	4.98					
					250	5.7	34.71	5.25					
					BOTTOM								
23	28 V 66	1700	40°00'	66°30'	1	19.8	36.40	5.24	0.16				
					10	19.8	36.41	5.25	0.13				
					20	19.7	36.40	5.34	0.15				
					30	19.7	36.40	5.23	0.15				
					40	19.7	36.41	5.22	0.27				
					50	19.7	36.41	5.17	0.31				
					75	19.3	36.60	4.72	0.14				
					100	18.8	36.56	4.46	0.03				
					150	18.3	36.55	4.55					
					200	18.1	36.54	4.70					
					250	18.0	36.52	4.68					
					BOTTOM								
24	28 V 66	1940	40°30'	66°29.5'	1	17.1	34.80	6.15	0.11				
					10	17.1	34.81	5.85	0.10				
					20	16.9	34.79	5.85	0.13				
					30	16.4	34.81	6.43	0.19				
					40	16.4	35.26	5.80	0.25				
					50	15.8	35.56	6.40	0.38				
					75	11.0	34.25	6.16	0.33				
					100	11.0	34.65	6.00	0.15				
					150	11.4	34.80	5.57					
					200	12.1	35.25	4.65					
					250	10.8	35.31	4.05					
					BOTTOM								

ALB. IV CRUISE NO. 66-7

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	25V66	2120	43°45'	66°30'	1	7.6	31.97	7.41	0.39				
					10	7.4	31.94	7.52	0.38				
					20	6.2	32.15	7.56	0.42				
					30	5.2	32.46	7.55	0.47				
					40	4.5	32.49	7.60	0.38				
					50	3.8	32.68	7.22	0.12				
					75	10.5	34.17	6.30	0.22				
					100	12.0	34.71	5.83	0.10				
					150	9.2	34.44	5.58					
					200	9.1	34.85	4.73					
					250	8.5	34.96	4.04					
					BOTTOM								
26	28V66	2250	41°00'	66°30'	1	6.8	31.87	7.67	0.41				
					10	6.1	31.88	7.75	0.66				
					20	4.8	32.02	7.73	0.50				
					30	4.8	32.07	7.77	0.35				
					40	4.5	32.35	7.67	0.26				
					50	4.3	32.36	7.61	0.14				
					75	3.3	32.86	6.99	0.16				
					100	5.0	33.35	6.58					
					150								
					200								
					250								
				(109m)	BOTTOM	5.2							
27	29V66	0120	41°30	66°30'	1	6.4	32.41	7.51	0.23				
					10	4.9	32.43	7.51	0.24				
					20	4.8	32.59	7.39	0.40				
					30	4.8	32.59	7.53	0.56				
					40	4.8	32.59	7.44	0.59				
					50	4.8	32.59	7.43	0.53				
					75	4.8	32.59	7.30	0.60				
					100								
					150								
					200								
					250								
				(94m)	BOTTOM	4.8							
28	29V66	0400	42°00'	66°30'	1	5.7	32.58	7.53	0.71				
					10	5.7	32.58	7.52	0.91				
					20	5.8	32.58	7.46	0.86				
					30	5.8	32.59	7.46	0.71				
					40	5.8	32.59	7.40	1.00				
					50	5.8	32.59	7.41	0.90				
					75	5.8	32.59	7.34	0.82				
					100								
					150								
					200								
					250								
				(81m)	BOTTOM	5.8							

ALB. IV CRUISE NO. 66-7

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	27V66	0545	42°15'	66°30'	1	8.0	32.27	7.46	0.56				
					10	8.0	32.26	7.38	0.56				
					20	7.0	32.30	7.44	0.69				
					30	5.3	32.42	7.38	0.43				
					40	3.8	32.54	7.37	0.20				
					50	3.4	32.69	7.06	0.15				
					75	4.0	33.06	6.53	0.14				
					100	4.5	33.30	6.14					
					150	5.2	34.03	5.64					
					200	5.3	34.27	5.62					
					250								
				(718 m)	BOTTOM	5.4							
30	29V66	0730	42°30	66°30'	1	7.1	32.26	7.52	0.69				
					10	7.1	32.24	7.62	0.52				
					20	7.0	32.26	7.53	0.63				
					30	6.3	32.29	7.55	0.65				
					40	5.2	32.36	7.60	0.43				
					50	4.9	32.37	7.49	0.39				
					75	3.8	32.51	7.39	0.16				
					100	3.9	32.92	6.70	0.13				
					150	4.9	33.50	5.92					
					200	5.5	34.24	5.73					
					250	5.5	34.46	5.71					
				(262 m)	BOTTOM	5.5							
31	29V66	1030	43°00'	66°30'	1	4.9	31.95	7.80	0.36				
					10	4.9	31.93	7.78	0.43				
					20	4.8	31.96	7.77	0.36				
					30	4.6	32.02	7.70	0.36				
					40	4.2	32.13	7.63	0.30				
					50	3.9	32.22	7.58	0.23				
					75	3.6	32.51	7.29	0.14				
					100	3.5	32.85	6.99	0.17				
					150								
					200								
					250								
				(132 m)	BOTTOM	3.5							
32	29V66	1320	43°30'	66°30'	1	4.9	32.03	7.75	0.34				
					10	4.9	32.03	7.74	0.45				
					20	4.9	32.05	7.69	0.44				
					30	4.6	32.11	7.65	0.38				
					40	4.2	32.18	7.64	0.36				
					50	4.0	32.16	7.65	0.33				
					75	3.6	32.34	7.50	0.23				
					100	3.3	32.49	7.28	0.20				
					150								
					200								
					250								
				(117 m)	BOTTOM	3.3							

ALB. IV CRUISE NO. 66-7

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	29V66	1605	44°00'	66°30'	1	4.8	31.98	7.74	0.36	
					10	4.7	31.98	7.78	0.34	
					20	4.7	31.98	7.76	0.42	
					30	4.6	32.03	7.63	0.28	
					40	4.4	32.08	7.55	0.20	
					50	4.3	32.11	7.56	0.19	
					75	4.2	32.17	7.50	0.23	
					100					
					150					
					200					
					250					
				(99 M)	BOTTOM	4.1				
34	29V66	1920	44°30'	66°31'	1	5.5	31.61	8.15	2.58	
					10	5.4	31.22	8.07	2.34	
					20	5.3	31.98	7.91	1.52	
					30	5.1	32.26	7.62	0.42	
					40	4.8	32.41	7.60	0.31	
					50	4.4	32.44	7.60	0.21	
					75	4.3	32.60	7.39	0.15	
					100	4.7	32.71	7.25	0.13	
					150	4.9	32.93	6.94		
					200					
					250					
				(190m)	BOTTOM	4.9				
35	29V66	2320	44°28'	67°30'	1	5.1	31.87	7.83	0.31	
					10	5.1	31.88	7.82	0.30	
					20	5.1	31.91	7.81	0.24	
					30	5.0	31.93	7.83	0.36	
					40	5.0	31.94	7.83	0.24	
					50	5.0	31.95	7.76	0.22	
					75	4.9	31.96	7.64	0.21	
					100					
					150					
					200					
					250					
				(101 m)	BOTTOM	4.8				
36	30V66	0225	44°00'	67°30'	1	7.2	32.32	7.56	0.28	
					10	7.2	32.34	7.56	0.37	
					20	7.1	32.41	7.51	0.29	
					30	5.6	32.50	7.68	0.43	
					40	4.6	32.62	7.39	0.25	
					50	4.2	32.69	7.17	0.28	
					75	4.0	33.19	6.36	0.16	
					100	4.2	33.55	5.90	0.07	
					150	5.2	33.91	5.22		
					200	5.2	33.97	5.03		
					250					
				(213m)	BOTTOM	5.2				

ALB. IV CRUISE NO. 66-7

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	30 V 66	0525	43°30'	67°30'	1	7.6	32.30	7.47	0.30	
					10	7.8	32.30	7.38	0.26	
					20	6.8	32.35	7.65	0.33	
					30	4.8	32.51	7.47	0.30	
					40	4.1	32.72	7.10	0.19	
					50	3.8	32.79	7.01	0.14	
					75	3.8	32.96	6.67	0.09	
					100	4.4	33.39	5.99	0.07	
					150	5.7	33.87	5.15		
					200	5.5	33.92	5.34		
					250					
				(221 m)	BOTTOM	5.5				
38	30 V 66	0830	43°00'	67°30'	1	7.2	32.06	7.57	0.45	
					10	7.1	32.05	7.68	0.19	
					20	6.9	32.05	7.76	0.25	
					30	5.7	32.22	7.79	0.14	
					40	4.3	32.35	7.61	0.23	
					50	3.9	32.42	7.54	0.28	
					75	3.6	32.98	6.53	0.07	
					100	4.2	33.37	5.73	0.07	
					150	5.0	33.77	5.43		
					200	5.0	34.06	5.65		
					250					
				(242 m)	BOTTOM	5.2				
39	30 V 66	1115	42°29.5	67°29'	1	7.2	32.12	7.61	0.41	
					10	7.2	32.11	7.62	0.36	
					20	6.3	32.14	7.63	0.43	
					30	5.0	32.19	7.78	0.39	
					40	4.0	32.39	7.59	0.19	
					50	3.8	32.66	7.05	0.13	
					75	4.0	33.08	6.26	0.13	
					100	4.3	33.35	6.03	0.10	
					150	5.0	33.85	5.51		
					200	5.4	34.25	5.63		
					250	5.1	34.44	5.54		
					BOTTOM					
40	30 V 66	1245	42°15'	67°30'	1	7.9	32.20	7.40	0.41	
					10	7.9	32.21	7.43	0.39	
					20	7.2	32.26	7.45	0.64	
					30	5.5	32.34	7.62	0.66	
					40	4.7	32.45	7.32	0.21	
					50	4.2	32.63	7.12	0.17	
					75	3.9	32.96	6.41	0.13	
					100	4.2	33.23	5.94	0.08	
					150	5.0	33.75	5.53		
					200	5.5	34.31	5.47		
					250	5.3	34.47	5.41		
				(274 m)	BOTTOM	5.3				

ALB. IV CRUISE NO. 66-7

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	30 V 66	1425	42°00'	67°30'	1	7.2	32.57	7.37	1.70				
					10	7.2	32.57	7.17	1.69				
					20	7.2	32.57	7.19	2.01				
					30	7.3	32.57	7.17	1.60				
					40	7.3	32.57	7.17	1.78				
					50								
					75								
					100								
					150								
					200								
					250								
				(42 m)	BOTTOM	7.3							
42	30 V 66	1710	41°30'	67°30'	1	7.8	32.63	7.26	1.26				
					10	7.8	32.63	7.24	1.87				
					20	7.8	32.63	7.10	1.95				
					30	7.8	32.63	7.10	2.54				
					40	7.8	32.63	7.12	1.74				
					50								
					75								
					100								
					150								
					200								
					250								
				(49 m)	BOTTOM	7.8							
43	30 V 66	1930	41°00	67°30'	1	7.6	32.57	7.24	0.26				
					10	7.3	32.58	7.35	0.19				
					20	6.4	32.64	7.40	0.20				
					30	6.3	32.64	7.40	0.24				
					40	6.3	32.64	7.40	0.38				
					50								
					75								
					100								
					150								
					200								
					250								
				(69 m)	BOTTOM	6.3							
44	30 V 66	2215	40°30'	67°30'	1	9.0	32.38	7.66	0.60				
					10	8.1	32.41	7.79	0.87				
					20	6.1	32.81	7.70	0.25				
					30	5.9	32.83	7.44	0.30				
					40	6.5	33.23	7.21	0.24				
					50	8.2	33.62	6.82	0.31				
					75	11.1	34.57	6.07	0.13				
					100	10.3	34.53	5.89	0.11				
					150								
					200								
					250								
					BOTTOM								

ALB. IV CRUISE NO. 66-7

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	30 V 66	2345	40°15'	67°30'	1	12.8	33.22	6.53	0.18				
					10	15.0	34.07	6.38	0.25				
					20	17.6		7.19	0.38				
					30	17.0	35.25	5.69	0.69				
					40	15.8	35.25	5.52	0.35				
					50	14.9	35.08	5.57	0.23				
					75	12.1	34.76	5.42	0.04				
					100	11.3	35.16	4.68	0.01				
					150	10.6	35.03	4.62					
					200	10.3	35.23	3.56					
					250	8.9	35.04	3.51					
					BOTTOM								
46	31 V 66	0135	40°00'	67°30'	1	15.7	34.23	5.92	0.18				
					10	15.6	34.35	5.95	0.24				
					20	15.2	34.63	5.94	0.25				
					30	15.5	35.09	5.80	0.32				
					40	15.8	35.24	5.67	0.49				
					50	13.5	34.82	5.82	0.28				
					75	11.3	34.67	5.76	0.14				
					100	11.1	34.81	5.35	0.05				
					150	11.9	35.20	4.36					
					200	11.1	35.19	3.62					
					250	9.9	35.14	3.37					
					BOTTOM								
47	31 V 66	0435	39°30'	67°30'	1	16.0	34.41	5.18	0.15				
					10	16.2	34.54	5.99	0.15				
					20	13.8	34.20	6.28	0.26				
					30	14.5	34.67	6.19	0.43				
					40	11.8	34.48	6.04	0.41				
					50	11.8	34.60	6.04	0.27				
					75	12.1	34.76	5.74	0.10				
					100	10.9	34.78	5.42	0.05				
					150	11.9	35.23	4.34					
					200	11.0	35.25	3.59					
					250	9.9	35.15	3.41					
					BOTTOM								
48	31 V 66	0855	39°30'	68°30'	1	13.1	33.40	6.63	0.20				
					10	13.0	33.42	6.89	0.24				
					20	12.5	34.39	6.91	0.43				
					30	12.5	34.53	6.52	1.29				
					40	12.2	34.54	6.38	0.35				
					50	11.6	34.64	6.14	0.29				
					75	11.3	34.98	5.38	0.01				
					100	11.7	35.20	4.61	0.00				
					150	11.0	35.23	3.65					
					200	9.0	35.00	3.93					
					250	7.6	34.94	4.07					
					BOTTOM								

ALB. IV CRUISE NO. 66-7

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	31 V 66	1205	40°00'	68°30'	1	11.5	33.21	6.83	0.33	
					10	11.4	33.21	6.89	0.33	
					20	9.1	33.66	6.87	0.74	
					30	9.4	33.81	6.82	0.61	
					40	11.1	34.36	6.28	0.37	
					50	10.7	34.47	6.19	0.27	
					75	9.0	34.40	5.95	0.12	
					100	10.0	34.55	5.66	0.09	
					150	9.2	34.73	5.16		
					200	9.0	34.93	4.60		
					250	7.3	34.86	4.43		
					BOTTOM					
50	31 V 66	1345	40°15'	68°30'	1	10.5	33.10	7.17	0.41	
					10	12.0	33.46	6.98	0.65	
					20	11.2	34.40	6.33	0.25	
					30	10.8	34.62	5.94	0.18	
					40	10.3	34.62	5.94	0.15	
					50	10.3	34.61	5.94	0.15	
					75	8.9	34.52	5.83	0.08	
					100	8.0	34.35	5.82	0.11	
					150	8.7	34.86	4.83		
					200					
					250					
				(165 M)	BOTTOM	8.7				
51	31 V 66	1515	40°30'	68°30'	1	9.1	32.28	7.38	0.42	
					10	7.8	32.36	7.64	0.62	
					20	6.3	32.48	7.81	1.74	
					30	5.2	32.62	7.50	0.26	
					40	5.0	32.64	7.36	0.18	
					50	4.9	32.63	7.39	0.24	
					75	5.1	33.01	6.87	0.15	
					100					
					150					
					200					
					250					
				(94 M)	BOTTOM	5.1				
52	31 V 66	1805	41°00'	68°30.5	1	7.8	32.64	7.31	1.42	
					10	7.8	32.64	7.36	1.38	
					20	7.8	32.64	7.36	1.70	
					30	7.9	32.64	7.36	1.43	
					40	7.9	32.64	7.33	1.92	
					50					
					75					
					100					
					150					
					200					
					250					
				(57 M)	BOTTOM	7.9				

ALB. IV CRUISE NO. 66-7

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	31 V 66	2110	41°30'	68°30'	1	9.8	32.24	7.40	0.68	
					10	6.2	32.39	7.49	0.46	
					20	6.1	32.52	7.48	0.26	
					30	5.8	32.56	7.38	0.47	
					40	5.4	32.58	7.38	0.50	
					50		32.61	7.32	0.43	
					75		32.63	7.13	0.73	
					100					
					150					
					200					
					250					
					BOTTOM					
54	31 V 66	2230	41°45'	68°30'	1	10.6	32.23	7.32	0.64	
					10	10.0	32.26	7.55	1.05	
					20	8.8	32.34	7.56	0.42	
					30	6.5	32.52	7.46	0.28	
					40	5.9	32.57	7.39	0.21	
					50	5.8	32.63	7.41	0.22	
					75	4.8	32.73	7.09	0.25	
					100	4.8	32.91	6.76	0.21	
					150	5.2	33.54	5.93		
					200					
					250					
				(172 M)	BOTTOM	5.8				
55	31 V 66	2400	42°00'	68°30'	1	10.5	32.10	7.08	0.27	
					10	10.0	32.10	7.16	0.43	
					20	9.0	32.16	7.17	0.44	
					30	7.2	32.30	7.42	0.28	
					40	5.6	32.37	7.56	0.26	
					50	4.8	32.45	7.32	0.14	
					75	4.1	32.60	7.10	0.15	
					100	4.2	32.83	6.73	0.17	
					150	5.1	33.21	6.18		
					200					
					250					
				(175 M)	BOTTOM	5.5				
56	1 VI 66	0250	42°30'	68°30'	1	9.8	32.06	7.34	0.30	
					10	9.0	32.07	7.53	0.42	
					20	8.5	32.12	7.50	0.51	
					30	7.6	32.24	7.61	0.66	
					40	6.2	32.32	7.60	0.53	
					50	5.3	32.38	7.44	0.22	
					75	4.8	32.59	6.94	0.16	
					100	4.7	32.88	6.49	0.17	
					150	5.2	33.29	5.89		
					200	6.0	33.84	5.34		
					250					
				(222 M)	BOTTOM	6.0				

ALB. IV CRUISE NO. 66-7

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	1 VI 66	0545	43°00'	68°30'	1	9.7	32.96	7.26	0.43	
					10	8.4	31.97	7.40	0.44	
					20	5.5	32.17	7.67	0.31	
					30	4.8	32.22	7.67	0.32	
					40	4.1	32.29	7.68	0.25	
					50	3.8	32.45	7.29	0.15	
					75	3.6	32.65	7.03	0.09	
					100	3.8	32.88	6.64	0.12	
					150	4.5	33.32	5.78		
					200					
					250					
				(202m)	BOTTOM	5.0				
58	1 VI 66	0830	43°30'	68°30'	1	7.9	32.00	7.63	0.34	
					10	6.2	32.03	7.72	0.28	
					20	5.2	32.49	7.75	0.23	
					30	4.9	32.35	7.61	0.43	
					40	4.6	32.44	7.45	0.33	
					50	4.2	32.51	7.31	0.15	
					75	4.0	32.66	7.16	0.13	
					100	4.0	32.85	6.89	0.11	
					150	4.7	32.33	5.88		
					200					
					250					
				(170m)	BOTTOM	4.9				
59	1 VI 66	1130	44°00'	68°30'	1	7.0	31.87	8.13	3.20	
					10	6.2	31.91	8.17	5.53	
					20	5.0	31.97	8.09	3.04	
					30	4.3	32.05	7.71	0.46	
					40	4.1	32.07	7.71	0.34	
					50	4.0	32.09	7.65	0.26	
					75					
					100					
					150					
					200					
					250					
				(60m)	BOTTOM	4.0				
60	1 VI 66	1555	43°30'	69°30'	1	10.7	31.33	7.43	0.72	
					10	9.5	31.49	7.75	1.17	
					20	5.8	32.03	8.00	0.48	
					30	5.0	32.13	8.07	0.43	
					40	4.9	32.20	8.14	0.27	
					50	4.8	32.27	8.00	0.16	
					75	3.9	32.42	7.46	0.17	
					100	3.8	32.57	6.92	0.11	
					150					
					200					
					250					
				(45m)	BOTTOM	4.0				

ALB. IV CRUISE NO. 66-7

STA. NO.	DATE	TIME G.C.T.	LOCATION N. LAT	LOCATION W. LONG	DEPTH m.	T. °C	S. ‰	O_2 ml./l.	CHLORO PHYLL mg./m³	PO_4-P µg.at./l			
61	1 VI 66	1830	43°00'	69°30'	1	11.2	31.79	6.91	0.21				
					10	10.3	31.95	7.27	0.43				
					20	8.1	32.23	7.56	0.46				
					30	7.0	32.28	7.59	0.27				
					40	5.0	32.32	7.51	0.23				
					50	4.2	32.37	7.45	0.17				
					75	3.9	32.50	7.18	0.12				
					100	3.9	32.77	6.69	0.09				
					150	4.8	33.16	5.71					
					200								
					250								
				(170m)	BOTTOM	5.2							
62	1 VI 66	2230	43°00'	70°30'	1	10.2	31.14	7.57	0.51				
					10	7.0	31.58	7.95	0.84				
					20	4.2	32.09	7.46	0.27				
					30	3.9	32.13	7.34	0.24				
					40	3.9	32.16	7.37	0.33				
					50	3.9	32.19	7.40	0.32				
					75	3.5	32.27	7.38	0.65				
					100								
					150								
					200								
					250								
				(89M)	BOTTOM	3.3							
63	2 VI 66	0110	42°30'	70°30'	1	12.0	31.30	7.20	0.38				
					10	8.2	31.63	7.69	1.04				
					20	5.9	31.99	7.85	0.47				
					30	3.9	32.27	7.57	0.23				
					40	3.7	32.27	7.42	0.14				
					50	3.7	32.33	7.34	0.15				
					75	3.5	32.37	7.28	0.12				
					100								
					150								
					200								
					250								
				(79m)	BOTTOM	3.5							
64	2 VI 66	0345	42°00'	70°30'	1	11.0	31.48	7.08	0.32				
					10	6.3	31.69	7.55	1.00				
					20	4.5	32.05	7.19	.52				
					30	3.1	32.22	6.75	.21				
					40								
					50								
					75								
					100								
					150								
					200								
					250								
				(37m)	BOTTOM	3.1							

ALB. IV CRUISE NO. 66-7

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	2 VI 66	0815	42°30'	69°30'	1	11.0	32.02	6.13	0.30	
					10	9.8	32.07	7.34	0.29	
					20	6.7	32.24	7.17	0.63	
					30	5.9	32.29	7.71	0.26	
					40	5.1	32.40	7.49	0.19	
					50	4.5	32.60	7.31	0.16	
					75	4.2	32.81	6.96	0.14	
					100	4.9	33.06	6.35	0.08	
					150	5.7	33.48	5.40		
					200	6.1	33.77	4.87		
					250	6.3	33.92	4.17		
				(275M)	BOTTOM	6.4				
66	2 VI 66	1120	42°00'	69°30'	1	11.9	31.53	7.38	0.37	
					10	8.9	31.93	7.66	0.54	
					20	6.1	32.16	7.86	0.33	
					30	5.5	32.21	7.79	0.21	
					40	5.0	32.29	7.80	0.17	
					50	4.5	32.38	7.50	0.16	
					75	4.8	32.48	7.43	0.12	
					100	5.1	32.76	6.96	0.11	
					150	5.7	33.43	5.66		
					200	6.0	33.71	4.78		
					250					
				(212m)	BOTTOM	6.1				
67	2 VI 66	1400	41°30'	69°30'	1	9.6	32.05	7.28	0.42	
					10	6.1	32.19	7.41	0.34	
					20	5.7	32.22	7.25	0.34	
					30	5.2	32.22	7.33	0.37	
					40	5.2	32.23	7.35	0.34	
					50					
					75					
					100					
					150					
					200					
					250					
				(46m)	BOTTOM	5.1				
68	2 VI 66	1650	41°00	69°15'	1	6.1	32.33	7.82	0.75	
					10	6.0	32.33	7.89	2.77	
					20	6.0	32.33	7.89	2.66	
					30	6.0	32.33	7.85	2.44	
					40	6.0	32.34	7.82	3.07	
					50	6.0	32.34	7.82	3.42	
					75					
					100					
					150					
					200					
					250					
				(54m)	BOTTOM	6.0				

ALB. IV CRUISE NO. 66-7

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	2 VI 66	2010	40°30'	69°30'	1	10.5	32.33	7.61	0.75	
					10	7.3	32.33	8.09	1.42	
					20	7.1	32.34	8.45	2.10	
					30	7.0	32.43	8.08	3.20	
					40	7.0	32.47	7.89	2.93	
					50	6.9	32.50	7.75	3.50	
					75					
					100					
					150					
					200					
					250					
				(60 m)	BOTTOM	6.9				
70	2 VI 66	2240	40°00'	69°30'	1	13.5	33.46	6.47	0.23	
					10	13.1	33.61	6.67	0.20	
					20	12.2	34.36	6.82	0.56	
					30	12.1	34.46	6.71	0.62	
					40	12.1	34.62	6.34	0.64	
					50	12.0	34.92	6.09	0.33	
					75	11.7	34.83	5.46	0.02	
					100	10.2	34.87	5.12	0.02	
					150					
					200					
					250					
				(120 m)	BOTTOM	10.8				
71	3 VI 66	0005	39°45'	69°30'	1	13.1	33.28	6.45	0.11	
					10	13.0	33.26	6.60	0.13	
					20	10.0	33.59	7.09	0.22	
					30	9.9	34.12	6.73	0.45	
					40	8.4	34.07	6.71	0.34	
					50	7.3	34.07	6.46	0.16	
					75	8.2	34.52	5.80	0.02	
					100	9.3	34.80	5.33	0.00	
					150	8.6	34.86	4.66		
					200	7.5	34.84	4.42		
					250	6.9	34.87	4.44		
					BOTTOM					
72	3 VI 66	0135	39°30'	69°30'	1	14.2	33.50	6.21	0.07	
					10	14.2	33.63	6.24	0.09	
					20	14.0	33.72	6.31	0.09	
					30	13.2	34.60	6.40	0.99	
					40	13.0	34.71	6.06	0.91	
					50	12.2	34.64	6.05	0.19	
					75	10.4	34.71	5.61	0.02	
					100	11.3	35.07	5.21	0.01	
					150	11.0	35.00	4.75		
					200	9.3	34.92	4.15		
					250	8.3	34.92	3.98		
					BOTTOM					

ALB. IV CRUISE NO. 66-7

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	3 VI 66	0535	39°30'	70°30'	1	13.3	33.59	6.22	0.14	
					10	13.3	33.62	6.41	0.14	
					20	12.1	33.97	6.73	0.25	
					30	12.0	34.33	6.67	1.46	
					40	11.9	34.36	6.48	1.67	
					50	9.0	34.25	6.34	0.37	
					75	11.2	34.61	5.89	0.14	
					100	8.5	34.39	5.87	0.03	
					150	9.5	34.88	4.96	0.02	
					200	8.6	34.89	4.25	0.01	
					250	8.0	34.93	3.98	0.01	
					BOTTOM					
74	3 VI 66	0715	39°45'	70°30'	1	11.5	32.60	6.74	0.18	
					10	9.6	33.11	7.40	0.36	
					20	8.5	33.26	7.43	0.76	
					30	7.1	33.70	6.73	0.47	
					40	9.8	34.19	6.32	0.19	
					50	8.0	34.00	6.38	0.12	
					75	9.7	34.79	5.77	0.02	
					100	10.8	35.03	5.62	0.01	
					150	11.2	35.20	5.57		
					200	11.2	35.22	4.92		
					250	9.2	35.06	3.68		
					BOTTOM					
75	3 VI 66	0900	40°00'	70°30'	1	11.9	32.67	6.70	0.17	
					10	11.6	32.67	6.81	0.21	
					20	10.0	33.07	7.38	0.33	
					30	8.8	33.45	7.38	0.45	
					40	8.3	33.70	6.91	0.42	
					50	8.8	33.89	6.66	0.37	
					75	8.0	33.88	6.40	0.09	
					100	8.0	34.12	6.09	0.02	
					150	8.2	34.46	5.67		
					200	9.1	34.83	5.09		
					250	8.1	34.90	4.16		
					BOTTOM					
76	3 VI 66	1155	40°30'	70°30'	1	11.6	32.15	7.03	0.56	
					10	9.6	32.25	7.51	0.74	
					20	6.2	32.54	7.56	0.93	
					30	6.1	32.65	7.47	0.42	
					40	6.0	32.68	7.08	0.16	
					50	5.8	32.71	7.00	0.18	
					75					
					100					
					150					
					200					
					250					
				(74 D)	BOTTOM	5.5				

ALB. IV CRUISE NO. 66-7

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	3 VI 66	1445	41°00'	70°30'	1	12.2	31.87	6.52	0.17	
					10	9.7	31.93	6.69	0.16	
					20	7.0	32.38	6.71	0.25	
					30	7.0	32.38	6.54	0.23	
					40	7.0	32.37	6.45	0.23	
					50					
					75					
					100					
					150					
					200					
					250					
				(49 m)	BOTTOM	7.0				
78	3 VI 66	1833	41°00'	71°00'	1	13.9	31.92	6.52	0.38	
					10	11.0	32.31	6.95	0.50	
					20	7.2	32.44	6.94	0.53	
					30	6.7	32.45	6.39	0.21	
					40	6.5	32.46	6.38	0.21	
					50					
					75					
					100					
					150					
					200					
					250					
				(51 m)	BOTTOM	6.1				
79	3 VI 66	2100	40°30'	71°30'	1	13.4	32.04	6.56	0.24	
					10	9.9	32.32	7.18	0.32	
					20	7.8	32.61	7.58	0.56	
					30	6.3	32.64	7.40	0.52	
					40	4.8	32.69	7.15	0.19	
					50	4.5	32.71	6.90	0.20	
					75	4.6	32.71	6.84	0.20	
					100					
					150					
					200					
					250					
				(75 m)	BOTTOM	4.6				
80	3 VI 66	2335	40°00'	71°30'	1	12.2	32.07	7.02	0.33	
					10	8.1	32.31	7.51	0.36	
					20	7.3	32.48	7.79	0.36	
					30	6.5	32.64	7.80	0.36	
					40	5.5	32.84	7.50	—	
					50	5.5	32.91	7.47	0.27	
					75	5.1	33.07	7.09	0.22	
					100	6.1	33.43	6.60	0.13	
					150					
					200					
					250					
				(104 m)	BOTTOM	6.1				

ALB. IV CRUISE NO. 66-7

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	4 VI 66	0105	39°45	71°30'	1	12.9	32.28	6.64	0.21				
					10	12.3	32.31	6.85	0.23				
					20	8.1	32.69	7.73	0.33				
					30	7.0	32.88	7.68	0.47				
					40	4.9	32.84	7.54	0.64				
					50	4.2	32.86	7.61	0.28				
					75	7.0	33.72	6.32	0.09				
					100	7.0	33.94	6.39	0.04				
					150	10.1	34.88	5.45					
					200	10.8	35.02	4.67					
					250	9.2	35.03	3.91					
					BOTTOM								
82	4 VI 66	0235	39°30'	71°50'	1	12.6	32.30	6.68	0.32				
					10	12.0	32.29	6.66	0.25				
					20	7.4	32.71	7.47	0.32				
					30	6.2	32.86	7.24	0.83				
					40	5.3	33.01	7.03	0.17				
					50	5.0	33.10	6.80	0.14				
					75	8.9	34.19	6.24	0.09				
					100	9.0	34.33	5.90	0.04				
					150	9.9	34.78	5.22					
					200	9.7	34.96	4.72					
					250	8.3	34.91	4.15					
					BOTTOM								
83	4 VI 66	0745	39°00'	72°30'	1	13.2	32.88	6.30	0.09				
					10	13.2	32.89	6.30	0.15				
					20	10.0	33.32	6.98	0.26				
					30	10.7	33.75	6.83	0.56				
					40	8.0	33.68	6.77	1.02				
					50	10.0	34.15	6.14	0.26				
					75	8.8	34.21	5.99	0.07				
					100	9.5	34.62	5.22	0.02				
					150	9.9	35.01	4.69					
					200	8.2	34.91	4.04					
					250	6.7	34.78	4.40					
					BOTTOM								
84	4 VI 66	0930	39°15'	72°30'	1	12.2	32.40	6.68	0.16				
					10	9.9	32.45	7.09	0.14				
					20	7.1	32.72	7.60	0.44				
					30	5.1	32.84	7.26	0.34				
					40	4.3	32.89	7.16	0.19				
					50	4.1	32.95	7.13	0.16				
					75	5.7	33.58	6.61	0.14				
					100	8.5	34.20	6.07	0.06				
					150								
					200								
					250								
				(147m)	BOTTOM	10.6							

ALB. IV CRUISE NO. 66-7

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	4 VI 66	1110	39°30'	72°30'	1	11.3	32.10	6.76	0.33				
					10	11.3	32.10	6.78	0.28				
					20	11.3	32.61	7.54	0.33				
					30	8.0	32.68	7.48	0.68				
					40	7.1	32.79	7.36	0.30				
					50	6.8	32.99	7.22	0.28				
					75	5.9	33.54	6.54	0.04				
					100	6.0	33.90	6.12	0.05				
					150								
					200								
					250								
				(110 m)	BOTTOM	6.2							
86	4 VI 66	1355	40°00'	72°30'	1	13.4	31.27	6.63	0.36				
					10	8.9	31.26	6.70	0.47				
					20	7.0	32.52	7.33	0.40				
					30	6.4	32.68	7.25	0.46				
					40	5.2	32.69	6.96	—				
					50	4.9	32.73	6.65	0.19				
					75								
					100								
					150								
					200								
					250								
				(74 m)	BOTTOM	4.9							
87	4 VI 66	1640	40°30	72°30	1	12.8	30.96	6.87	—				
					10	10.0	31.02	7.05	0.64				
					20	8.0	31.74	6.76	1.36				
					30	5.4	32.08	6.21	0.68				
					40	5.2	32.41	6.12	0.33				
					50								
					75								
					100								
					150								
					200								
					250								
				(51 m)	BOTTOM	5.2							
					1								
					10								
					20								
					30								
					40								
					50								
					75								
					100								
					150								
					200								
					250								
					BOTTOM								