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ENVIRONMENTAL OBSERVATIONS ON CONTINENTAL SHELF NOVA SCOTIA TO LONG ISLAND, SEPTEMBER 1965 ALBATROSS IV CRUISE 65-12

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

65-19

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Biological Laboratory
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ENVIRONMENTAL OBSERVATIONS ON CONTINENTAL SHELF NOVA SCOTIA TO LONG ISLAND, SEPTEMBER 1965

ALBATROSS IV CRUISE 65-12

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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 65-12, 1-16 September 1965). This is the fifth 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 H are presented in Figures 4-9.

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.

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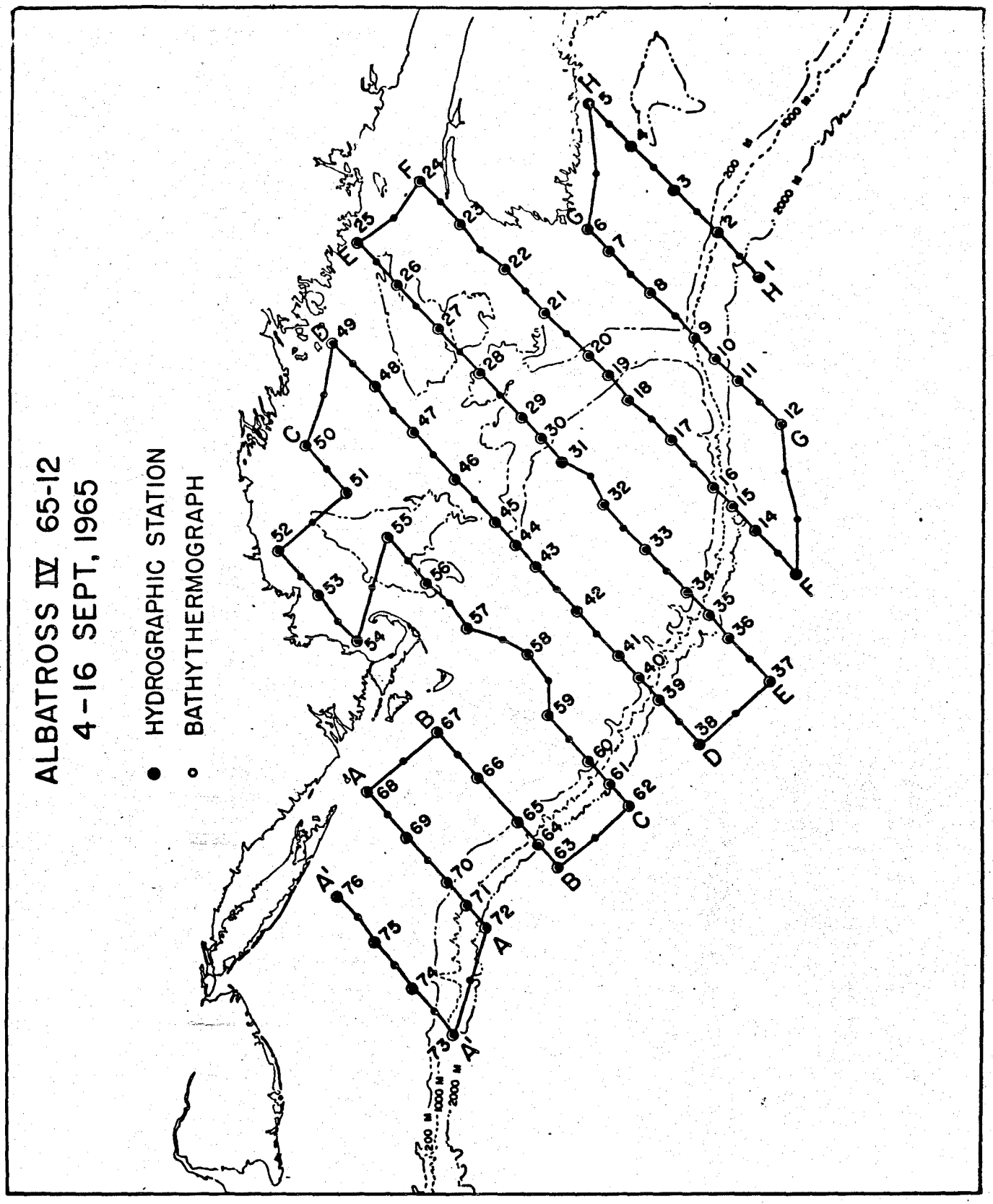
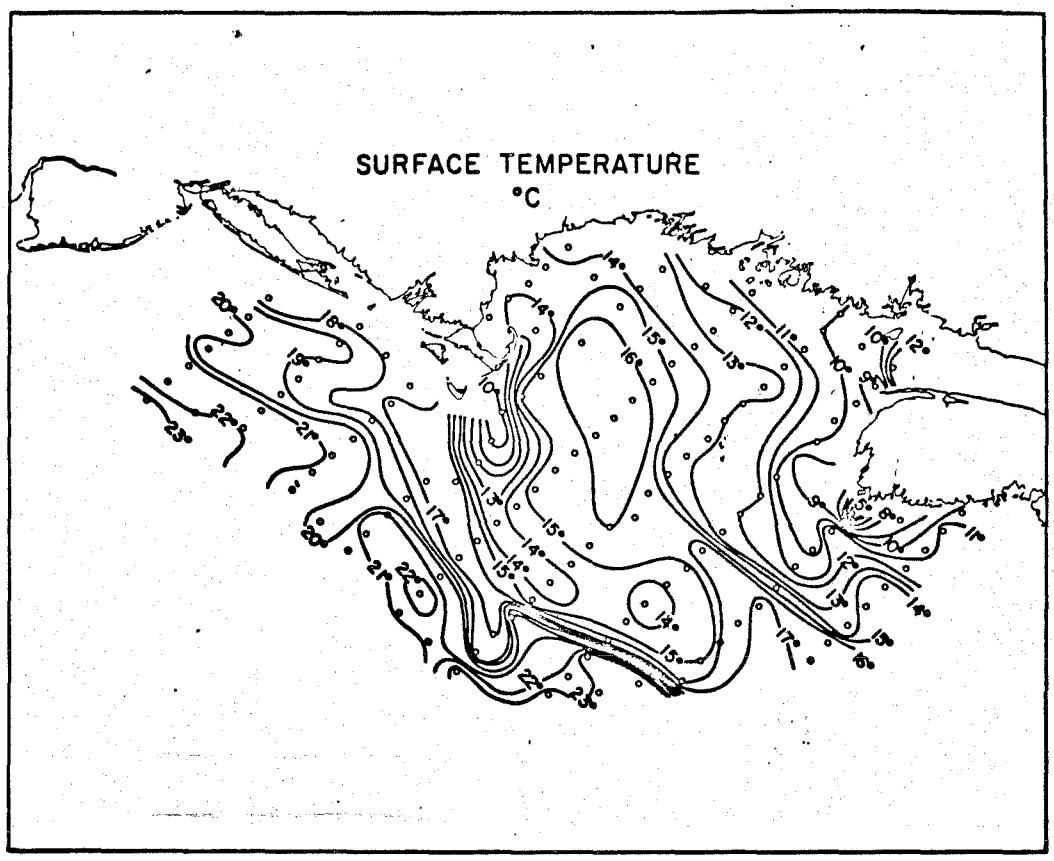

ALBATROSS IV 65-12
4-16 SEPT, 1965
● HYDROGRAPHIC STATION
○ BATHYTHERMOGRAPH
200 m
1000 m
2000 m

FIGURE I.



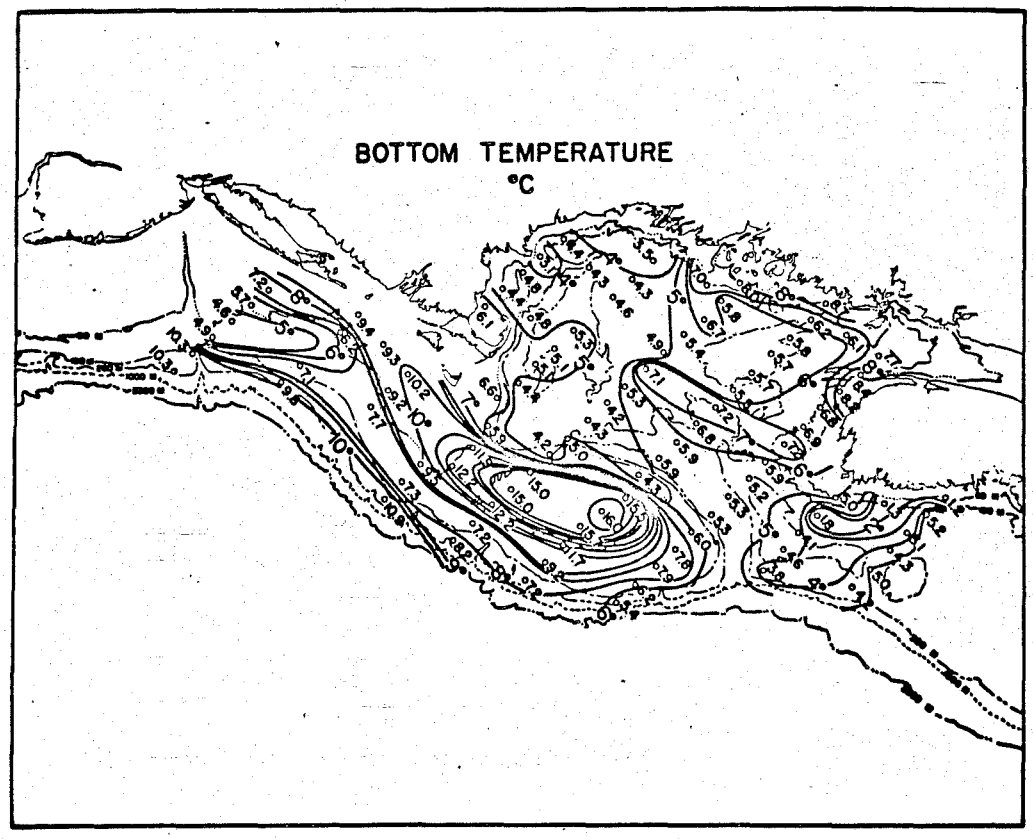
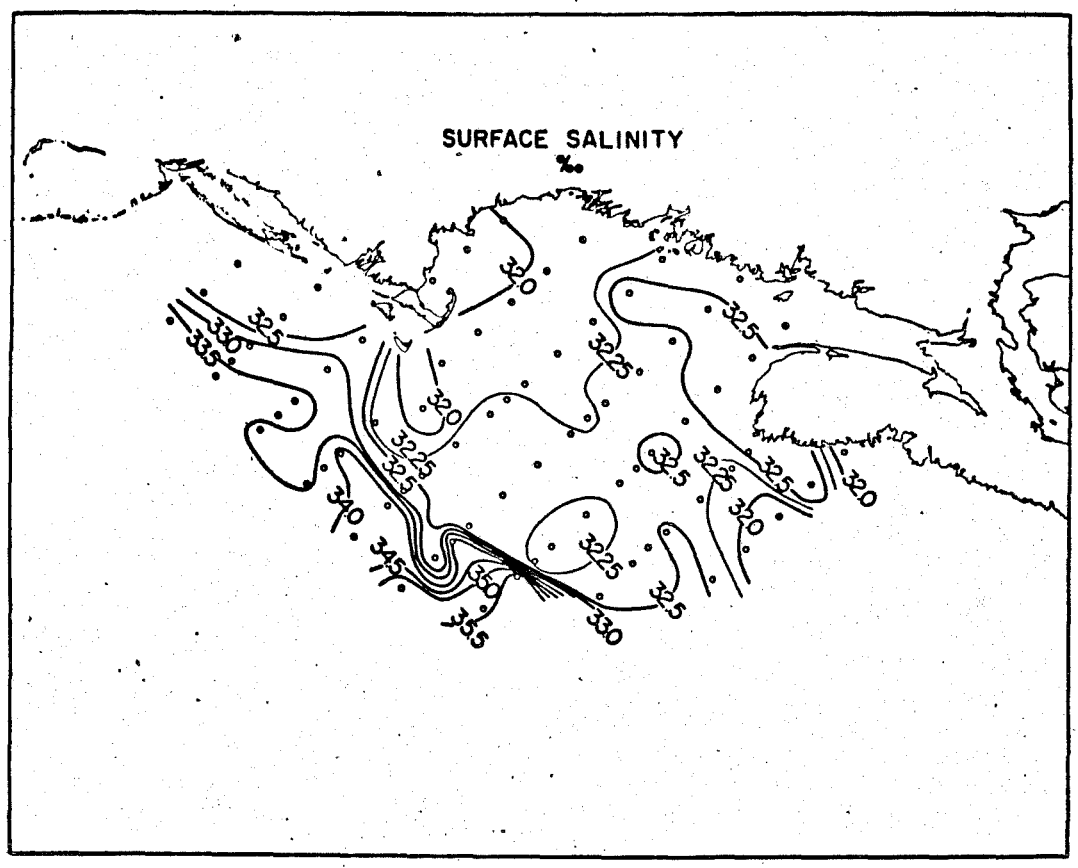


FIGURE 2.


SURFACE SALINITY
‰
32.0
32.5
33.0
33.5
32.25
34.0
34.5
35.0
35.5

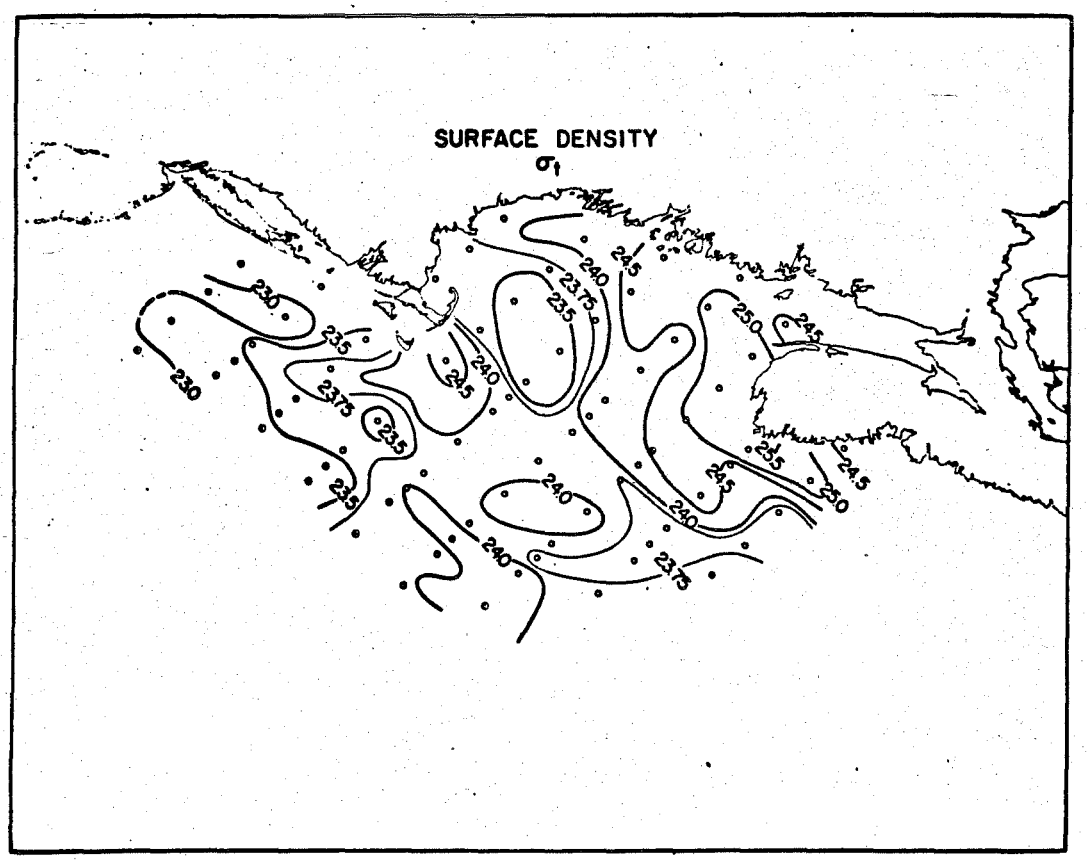

SURFACE DENSITY
σ_t
23.0
23.5
23.75
24.0
24.5
25.0

FIGURE 3.

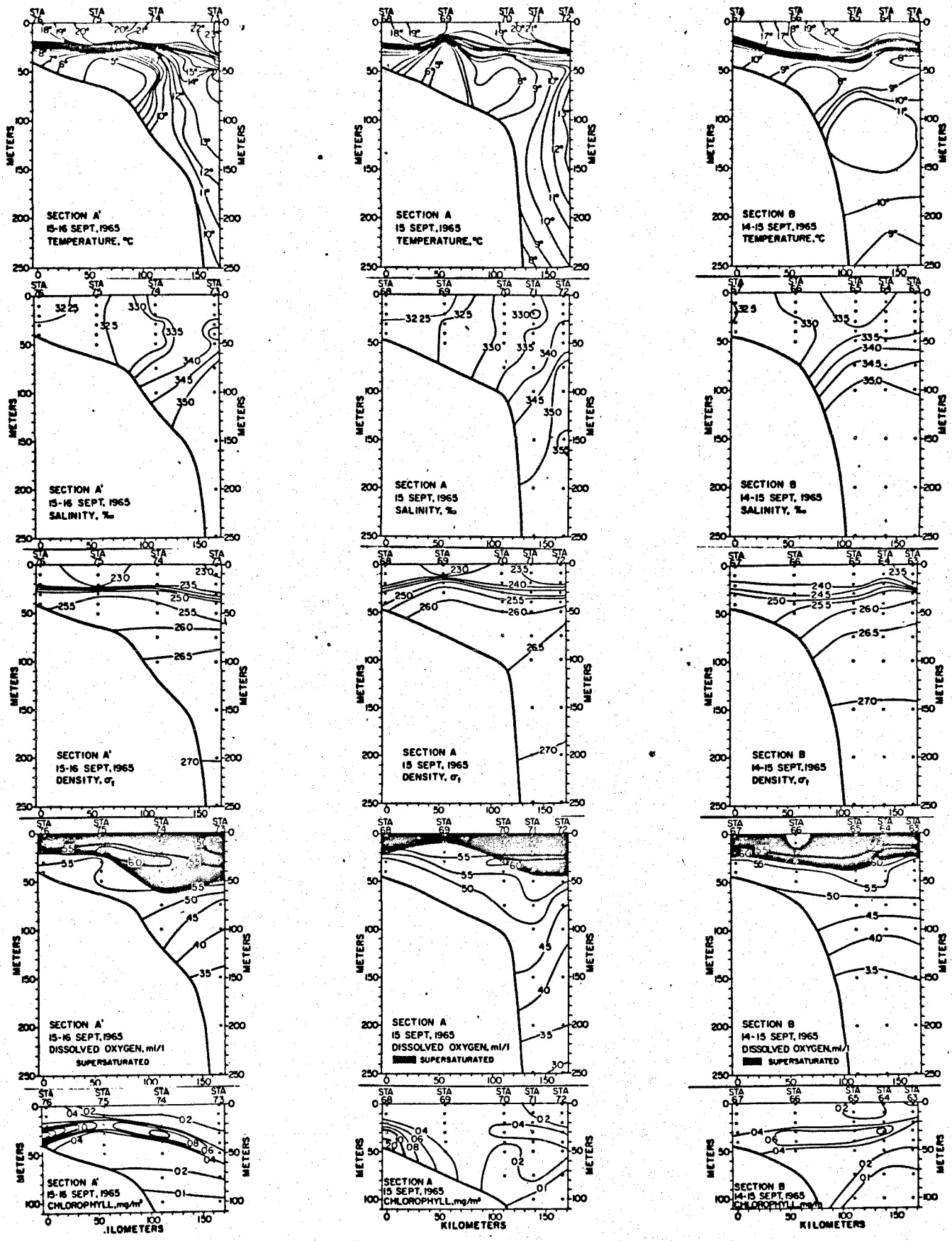

SECTION A'
15-16 SEPT. 1965
TEMPERATURE, °C
SECTION A
15 SEPT. 1965
TEMPERATURE, °C
SECTION B
14-15 SEPT. 1965
TEMPERATURE, °C
SECTION A'
15-16 SEPT. 1965
SALINITY, ‰
SECTION A
15 SEPT. 1965
SALINITY, ‰
SECTION B
14-15 SEPT. 1965
SALINITY, ‰
SECTION A'
15-16 SEPT. 1965
DENSITY, σ_t
SECTION A
15 SEPT. 1965
DENSITY, σ_t
SECTION B
14-15 SEPT. 1965
DENSITY, σ_t
SECTION A'
15-16 SEPT. 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION A
15 SEPT. 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION B
14-15 SEPT. 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION A'
15-16 SEPT. 1965
CHLOROPHYLL, mg/m³
SECTION A
15 SEPT. 1965
CHLOROPHYLL, mg/m³
SECTION B
14-15 SEPT. 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 4.

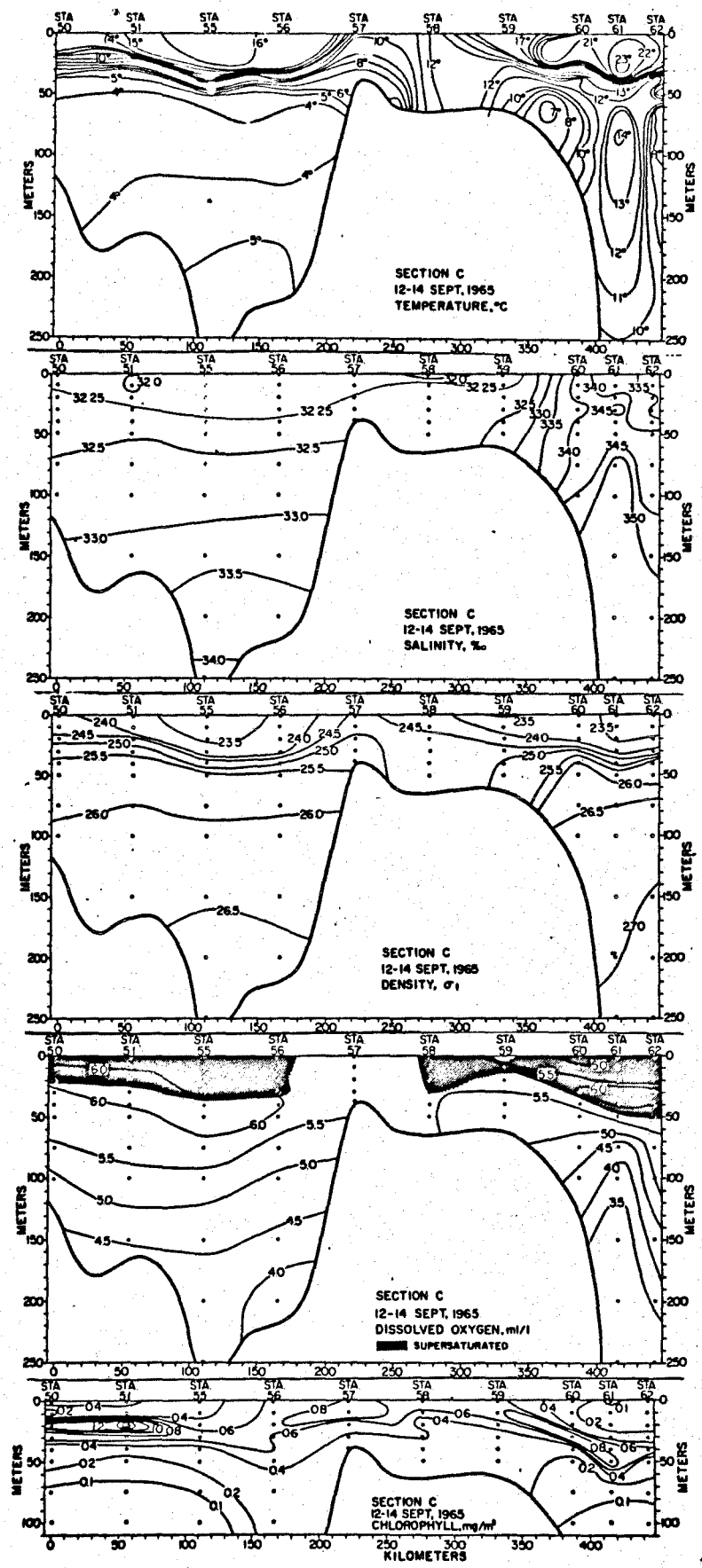
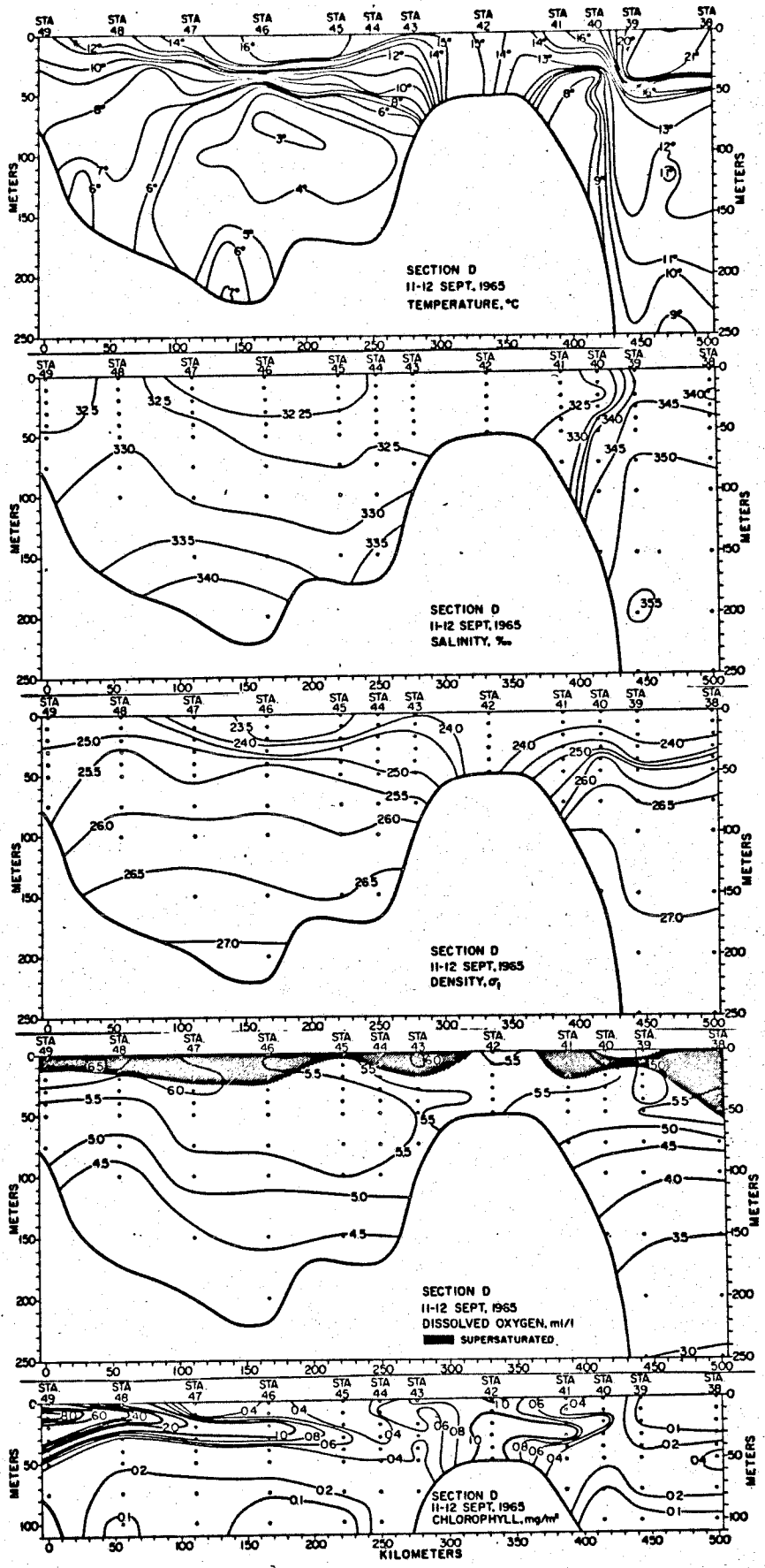

SECTION C
12-14 SEPT. 1965
TEMPERATURE, °C
SECTION C
12-14 SEPT. 1965
SALINITY, ‰
SECTION C
12-14 SEPT. 1965
DENSITY, σt
SECTION C
12-14 SEPT. 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION C
12-14 SEPT. 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 5.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11-12 SEPT. 1965
TEMPERATURE, °C
SECTION D
11-12 SEPT. 1965
SALINITY, ‰
SECTION D
11-12 SEPT. 1965
DENSITY, σ_t
SECTION D
11-12 SEPT. 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION D
11-12 SEPT. 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 6.

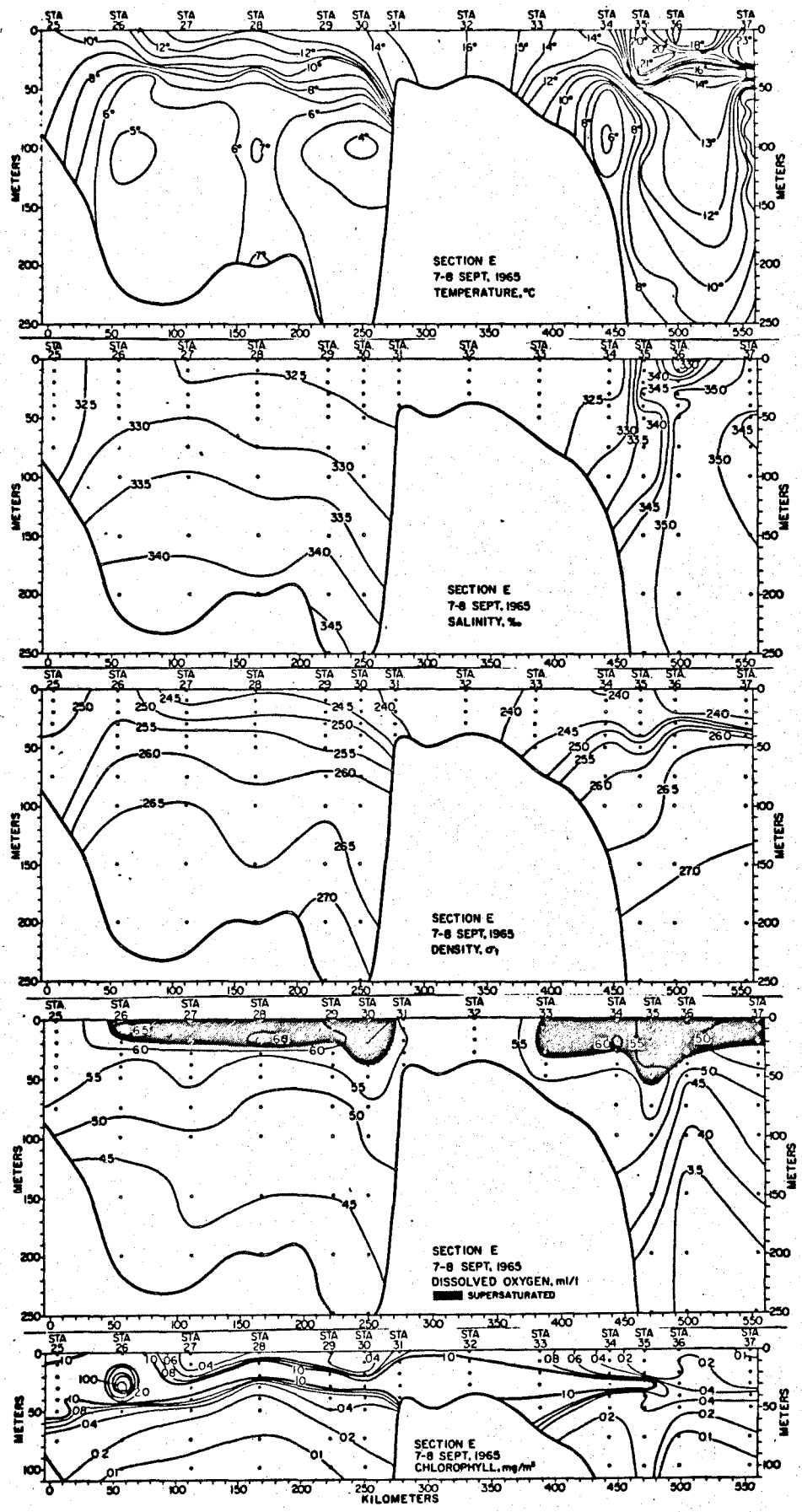
SECTION E
7-8 SEPT, 1965
TEMPERATURE, °C
SECTION E
7-8 SEPT, 1965
SALINITY, ‰
SECTION E
7-8 SEPT, 1965
DENSITY, σt
SECTION E
7-8 SEPT, 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION E
7-8 SEPT, 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 7.

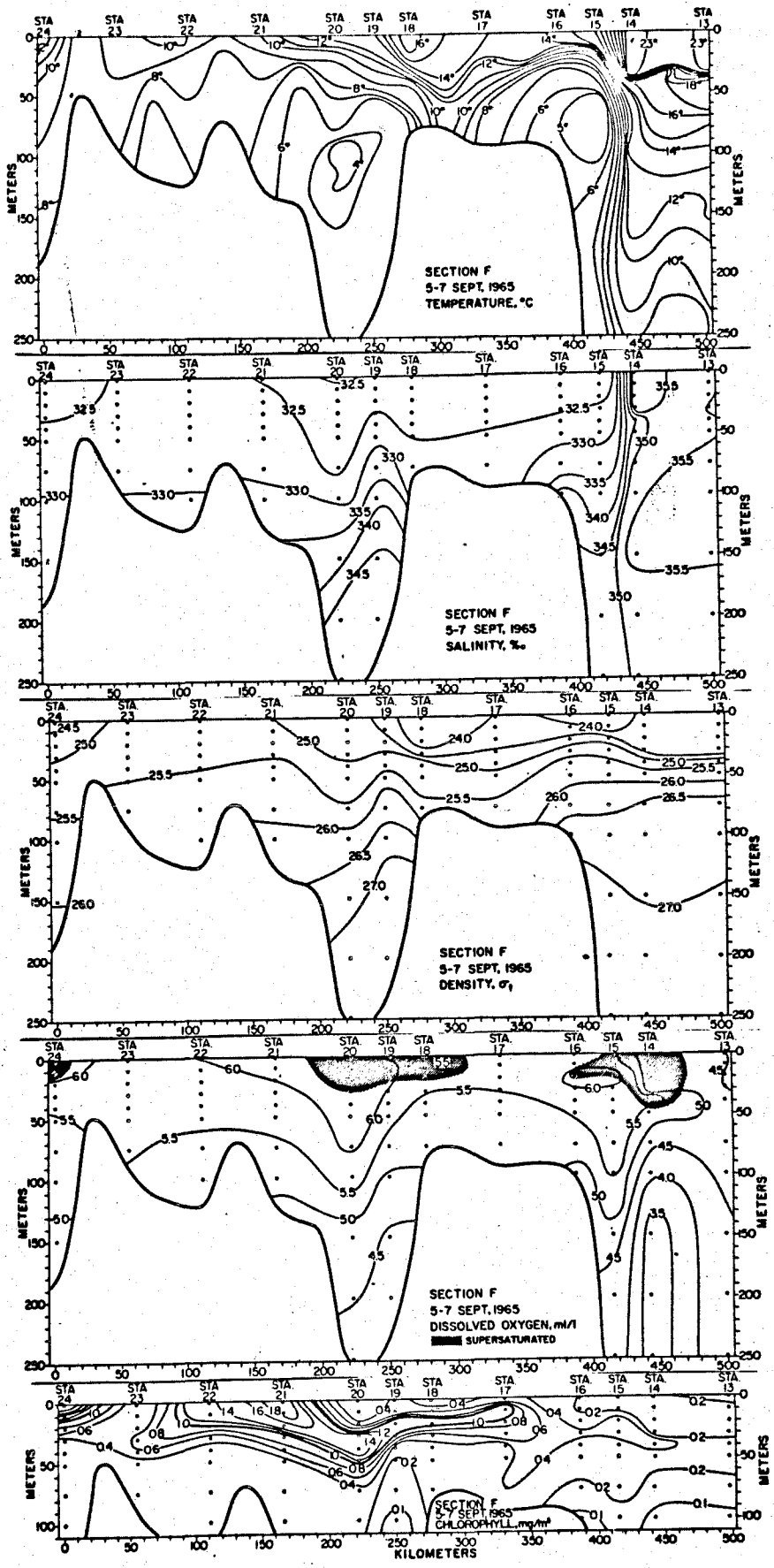
SECTION F
5-7 SEPT, 1965
TEMPERATURE, °C
SECTION F
5-7 SEPT, 1965
SALINITY, ‰
SECTION F
5-7 SEPT, 1965
DENSITY, σ_t
SECTION F
5-7 SEPT, 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION F
5-7 SEPT, 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 8.

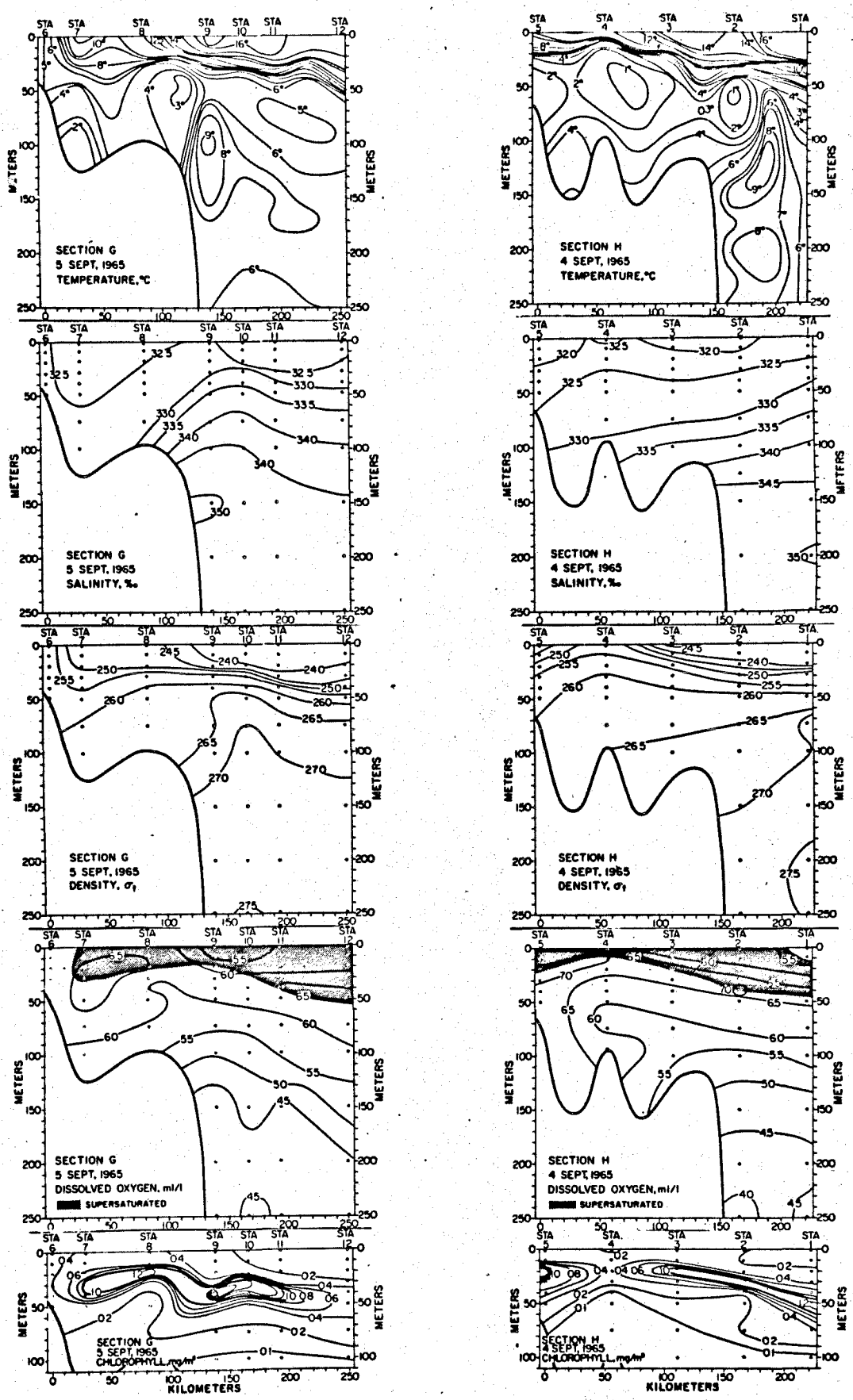
SECTION G
5 SEPT, 1965
TEMPERATURE, °C
SECTION H
4 SEPT, 1965
TEMPERATURE, °C
SECTION G
5 SEPT, 1965
SALINITY, ‰
SECTION H
4 SEPT, 1965
SALINITY, ‰
SECTION G
5 SEPT, 1965
DENSITY, σ_t
SECTION H
4 SEPT, 1965
DENSITY, σ_t
SECTION G
5 SEPT, 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION H
4 SEPT, 1965
DISSOLVED OXYGEN, ml/l
SUPERSATURATED
SECTION G
5 SEPT, 1965
CHLOROPHYLL, mg/m³
SECTION H
4 SEPT, 1965
CHLOROPHYLL, mg/m³
METERS
KILOMETERS

FIGURE 9.

TABLE 1

ALB. IV CRUISE NO. 65-12

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-IX-65	1030	42°00'	69°31	1	16.3	32.43	5.30	0.17	
					10	16.3	32.41	5.40	0.18	
					20	16.3	32.49	5.54	0.23	
					30	12.1	33.18	6.32	0.37	
					40	9.1	32.92	6.55	0.65	
					50	6.8	33.18	6.58	1.29	
					75	3.0	33.59	6.21	0.33	
					100	4.9	34.05	5.83	0.09	
					150	6.0	34.65	4.87		
					200	5.1	35.01	4.33		
					250	4.9	34.78	4.61		
					BOTTOM					
2	4-IX-65	1440	42°30'	69°30'	1	13.7	31.85	5.81	0.21	
					10	13.7	31.85	5.90	0.18	
					20	13.0	32.26	6.06	0.25	
					30	10.0	32.47	6.64	1.03	
					40	4.9	32.63	7.07	0.21	
					50	1.3	32.69	6.27	0.15	
					75	1.2	33.07	6.23	0.23	
					100	3.0	33.82	5.25	0.06	
					150	8.9	34.80	4.76		
					200	8.2	34.90	4.17		
					250	7.5	34.98	3.91		
					BOTTOM					
3	4-IX-65	1755	43°00'	69°30'	1	14.8	31.61	5.73	0.24	
					10	12.7	31.93	6.01	0.29	
					20	7.2	32.30	6.70	1.08	
					30	3.3	32.39	6.76	0.42	
					40	2.0	32.49	6.37	0.29	
					50	1.7	32.66	6.21	0.13	
					75	2.1	32.93	5.77	0.08	
					100	3.3	33.57	5.60	0.09	
					150					
					200					
					250					
				(123M)	BOTTOM	5.0				
4	4-IX-65	2055	43°30'	69°30'	1	10.8	32.86	6.17	0.20	
					10	4.9	32.21	7.03	0.25	
					20	1.4	32.36	6.72	0.39	
					30	1.0	32.50	6.33	0.29	
					40	1.1	32.67	6.03	0.08	
					50	1.5	32.76	6.05	0.08	
					75	2.0	32.90	5.82	0.08	
					100					
					150					
					200					
					250					
				(95M)	BOTTOM	3.1				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	5-IX-65	0015	41°00'	64°30'	1	10.2	31.66	6.47	0.27	
					10	8.5	31.64	6.66	0.34	
					20	5.5	31.92	7.15	1.73	
					30	2.3	32.13	7.04	0.87	
					40	1.3	32.17	6.76	0.66	
					50	1.3	32.22	6.76	0.39	
					75					
					100					
					150					
					200					
					250					
				(74M)	BOTTOM	1.2				
6	5-IX-65	0610	43°15'	65°30'	1	5.1	32.51	6.15	0.29	
					10	5.0	32.50	6.25	0.35	
					20	5.0	32.51	6.23	0.34	
					30	5.0	32.51	6.17	0.40	
					40	5.0	32.51	6.30	0.24	
					50	5.0	32.52	6.23	0.37	
					75					
					100					
					150					
					200					
					250					
				(51M)	BOTTOM	5.0				
7	5-IX-65	0750	43°00'	65°30'	1	11.4	32.17	6.16	0.45	
					10	10.9	32.21	6.43	0.44	
					20	10.2	32.32	6.68	0.65	
					30	7.0	32.26	6.76	1.03	
					40	5.3	32.24	6.89	0.95	
					50	3.4	32.43	6.77	0.33	
					75	2.8	32.65	6.18	0.14	
					100	1.8	32.89	5.73	0.15	
					150					
					200					
					250					
				(126M)	BOTTOM	1.8				
8	5-IX-65	1107	42°31'	65°30'	1	10.8	32.27	6.27	0.45	
					10	10.8	32.26	6.30	0.48	
					20	10.0	32.42	6.50	1.34	
					30	5.0	32.78	6.19	0.33	
					40	4.2	32.79	6.00	0.17	
					50	4.1	32.83	6.15	0.18	
					75	4.2	32.89	5.96	0.21	
					100					
					150					
					200					
					250					
				(97M)	BOTTOM	4.6				

TABLE 1

ALB. IV CRUISE NO. 65-12

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·IX·65	1425	42°00'	65°30'	1	17.1	32.52	5.33	0.21	
					10	17.1	32.52	5.36	0.24	
					20	13.7	32.53	5.74	0.29	
					30	8.5	32.91	6.23	0.46	
					40	6.0	33.23	6.50	2.08	
					50	5.3	33.55	6.12	0.87	
					75	8.3	33.99	5.67	0.17	
					100	9.1	34.52	5.07	0.09	
					150	8.5	35.05	4.24		
					200	6.5	34.86	4.24		
					250	6.0	34.83	4.28		
					BOTTOM					
10	5·IX·65	1610	41°45'	65°31'	1	16.5	32.40		0.18	
					10	16.0	32.36		0.18	
					20	14.5	32.31		0.26	
					30	11.0	33.32		1.60	
					40	6.0	33.43	6.41	1.21	
					50	5.3	33.68	6.23	0.39	
					75	5.1	34.13	5.79	0.13	
					100	6.8	34.50	5.25	0.08	
					150	6.8	34.82	4.71		
					200	6.6	34.96	4.30		
					250	5.0	34.84	4.94		
					BOTTOM					
11	5·IX·65	1800	41°30'	65°30'	1	16.1	32.30	5.54	0.19	
					10	16.1	32.29	5.55	0.17	
					20	16.0	32.31	5.61	0.17	
					30	13.9	32.51	6.03	0.38	
					40	9.0	33.05	6.50	1.39	
					50	6.2	33.40	6.39	0.78	
					75	4.9	33.94	5.87	0.14	
					100	5.6	34.17	5.62	0.08	
					150	7.0	34.78	4.44		
					200	6.4	34.83	4.24		
					250	5.8	34.81	4.36		
					BOTTOM					
12	5·IX·65	2110	41°00'	65°30'	1	15.9	32.46	5.69	0.18	
					10	15.9	32.45	5.75	0.17	
					20	15.2	32.49	5.90	0.25	
					30	14.2	32.57	6.07	0.21	
					40	12.2	32.79	6.48	0.55	
					50	9.0	33.24	6.61	0.55	
					75	5.5	33.63	6.26	0.33	
					100	5.1	34.05	5.96	0.12	
					150	6.9	34.57	5.18		
					200	6.9	34.80	4.44		
					250	6.2	34.86	4.38		
					BOTTOM					

TABLE 1

ALB. IV CRUISE NO. 65-12

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	6-IX-65	0435	40°00'	66°30'	1	23.2	35.47	4.49	0.24	
					10	23.3	35.48	4.52	0.18	
					20	23.3	35.49	4.51	0.16	
					30	23.3	35.55	4.51	0.17	
					40	18.5	35.42	4.82	0.39	
					50	17.3	35.44		0.29	
					75	15.7	35.58	4.84	0.15	
					100	14.0	35.77	4.61	0.08	
					150	12.0	35.53	4.40		
					200	10.6	35.41	4.41		
					250	9.0	35.12	4.36		
					BOTTOM					
14	6-IX-65	0755	40°30'	66°31'	1	23.8	35.64	4.71	0.19	
					10	23.8	35.64	4.74	0.16	
					20	23.8	35.64	4.70	0.11	
					30	23.7	35.64	4.70	0.11	
					40	17.5	34.51	5.79	0.53	
					50	14.1	34.61	5.41	0.33	
					75	12.9	35.14	4.60	0.13	
					100	13.1	35.48	4.04	0.08	
					150	12.7	35.62	3.32		
					200	10.8	35.36	3.20		
					250	9.6	35.22	3.23		
					BOTTOM					
15	6-IX-65	0945	40°46'	66°31'	1	16.0	32.16	5.52	0.20	
					10	15.9	32.13	5.56	0.18	
					20	10.7	32.36	6.15	0.57	
					30	8.7	32.56	5.92	0.42	
					40	7.0	32.78	5.69	0.38	
					50	5.7	32.83	5.61	0.25	
					75	4.2	33.20	5.78	0.34	
					100	4.1	33.57	5.55	0.14	
					150	6.8	34.53	4.78		
					200	6.4	34.70	4.25		
					250	6.2	34.74	4.19		
					BOTTOM					
16	6-IX-65	1125	41°00'	66°30'	1	14.3	32.18	5.57	0.20	
					10	14.0	32.16	5.67	0.18	
					20	10.6	32.25	6.15	0.33	
					30	7.2	32.43	5.98	0.41	
					40	6.2	32.77	5.59	0.27	
					50	6.0	32.89	5.57	0.24	
					75	5.1	33.19	5.34	0.18	
					100	5.4	34.05	4.80	0.09	
					150					
					200					
					250					
				(100 M)	BOTTOM	5.4				

TABLE 1

ALB. IV. CRUISE NO. 65-12

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.IX.65	1425	41°30'	66°29'	1	14.2	32.23	5.61	0.46	
					10	14.1	32.22	5.64	1.08	
					20	13.1	32.30	5.56	0.92	
					30	11.7	32.35	5.53	0.65	
					40	10.9	32.44	5.40	0.46	
					50	9.5	32.58	5.33	0.39	
					75	7.9	32.78	5.21	0.40	
					100					
					150					
					200					
					250					
				(93M)	BOTTOM	7.9				
18	6.IX.65	1730	42°00'	66°30'	1	16.2	32.43	5.47	0.32	
					10	16.2	32.14	5.52	0.60	
					20	15.5	32.16	5.64	1.13	
					30	12.3	32.34	5.51	0.54	
					40	9.1	32.46	5.39	0.30	
					50	8.9	32.48	5.36	0.29	
					75	6.0	32.66	5.33	0.28	
					100					
					150					
					200					
					250					
				(82M)	BOTTOM	6.0				
19	6.IX.65	1805	42°15'	66°29'	1	13.0	32.38	5.92	0.45	
					10	12.6	32.33	6.10	0.51	
					20	11.9	32.34	6.09	1.08	
					30	9.9	32.51	5.93	1.00	
					40	8.4	32.66	5.81	0.23	
					50	6.3	32.92	5.69	0.19	
					75	5.1	33.38	5.21	0.14	
					100	5.0	33.92	4.95	0.08	
					150	5.7	34.60	4.40		
					200	5.4	34.65	4.36		
					250					
				(230M)	BOTTOM	5.3				
20	6.IX.65	2050	42°30'	66°30'	1	12.1	32.85	6.11	0.33	
					10	10.9	32.15	6.18	0.29	
					20	9.1	32.15	6.45	0.53	
					30	8.9	32.16	6.38	1.47	
					40	8.3	32.19	6.33	1.47	
					50	7.1	32.21	6.23	1.21	
					75	6.4	32.47	6.08	0.34	
					100	3.3	32.89	5.72	0.23	
					150	4.5	33.94	4.89		
					200	5.3	34.67	4.54		
					250	5.3	34.70	4.46		
				(256M)	BOTTOM	5.3				

TABLE 1

ALB. IV CRUISE NO. 65-12

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-IX-65	2400	43°00'	66°30'	1	10.0	32.48	6.14	1.82	
					10	9.7	32.52	6.18	1.95	
					20	8.7	32.58	6.05	1.51	
					30	8.2	32.64	5.79	0.95	
					40	7.5	32.68	5.74	0.74	
					50	6.9	32.79	5.63	0.35	
					75	6.0	32.87	5.44	0.25	
					100	5.8	33.17	5.13	0.19	
					150					
					200					
					250					
				(125M)	BOTTOM	5.9				
22	7-IX-65	0255	43°30'	66°30'	1	10.0	32.72	6.01	1.39	
					10	9.6	32.74	5.82	1.29	
					20	8.9	32.74	5.81	1.00	
					30	8.9	32.76	5.68	0.42	
					40	8.6	32.79	5.52	0.29	
					50	8.1	32.79	5.54	0.24	
					75	7.9	32.86	5.45	0.33	
					100	7.0	33.06	5.21	0.24	
					150					
					200					
					250					
				(122M)	BOTTOM	6.9				
23	7-IX-65	0545	44°00'	66°30'	1	9.2	32.58	5.81	0.48	
					10	9.2	32.60	5.84	0.44	
					20	9.1	32.63	5.84	0.45	
					30	9.1	32.68	5.83	0.64	
					40	8.8	32.73	5.89	0.55	
					50	8.3	32.77	5.79	0.33	
					75	8.2	32.89	5.59	0.24	
					100					
					150					
					200					
					250					
				(90M)	BOTTOM	8.2				
24	7-IX-65	0900	44°30'	66°30'	1	12.5	32.30	6.23	1.86	
					10	11.9	32.31	6.13	1.26	
					20	11.0	32.39	5.94	0.82	
					30	10.3	32.47	5.64	0.32	
					40	9.8	32.64	5.52	0.24	
					50	9.5	32.68	5.49	0.28	
					75	9.2	32.84	5.30	0.25	
					100	8.3	33.03	5.13	0.21	
					150	7.9	33.33	4.94		
					200					
					250					
				(180M)	BOTTOM	7.7				

TABLE 1

ALB. IV CRUISE NO. 65-12

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-IX-65	1310	44°28'	67°30'	1	10.0	32.38	5.74	0.92	
					10	9.9	32.37	5.80	1.03	
					20	9.7	32.37	5.79	1.39	
					30	9.6	32.37	5.68	1.26	
					40	9.6	32.38	5.67	1.13	
					50	9.6	32.38	5.66	1.51	
					75	9.0	32.45	5.46	0.33	
					100	8.7				
					150					
					200					
					250					
				(102M)	BOTTOM	8.7				
26	7-IX-65	1550	44°00'	67°30'	1	10.5	32.71	6.46	1.29	
					10	9.9	32.70	6.56	1.60	
					20	9.0	32.72	6.21	7.31	
					30	8.0	32.77	5.88	10.80	
					40	6.9	32.81	5.35	2.43	
					50	6.2	32.90	5.24	0.48	
					75	5.2	33.09	5.12	0.20	
					100	4.8	33.38	4.67	0.10	
					150	5.2	33.94	4.22		
					200	5.8	34.17	4.19		
					250					
				(218M)	BOTTOM	5.8				
27	7-IX-65	1835	43°30'	67°30'	1	13.3	32.49	5.73	0.32	
					10	13.3	32.45	5.82	0.35	
					20	11.9	32.50	6.11	0.57	
					30	9.9	32.63	5.96	1.60	
					40	8.0	32.81	5.83	0.87	
					50	6.5	33.00	5.60	0.25	
					75	5.8	33.39	5.30	0.12	
					100	5.1	33.56	4.93	0.08	
					150	5.1	33.94	4.61		
					200	5.5	34.16	4.41		
					250					
				(228M)	BOTTOM	5.7				
28	7-IX-65	2135	43°00'	67°30'	1	13.0	32.48	6.19	0.14	
					10	12.0	32.48	6.43	1.18	
					20	11.1	32.58	6.66	1.08	
					30	10.0	32.78	5.57	0.28	
					40	7.4	32.83	5.31	0.16	
					50	6.8	32.89	5.16	0.13	
					75	6.4	33.00	4.87	0.09	
					100	7.4	33.36	4.95	0.09	
					150	6.5	33.72	4.51		
					200	7.1	34.10	4.34		
					250					
				(202M)	BOTTOM	7.2				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	8.IX.65	0100	42°30'	67°30'	1	13.1	32.45	5.93	0.41	
					10	12.9	32.43	5.99	0.39	
					20	11.0	32.38	6.13	1.34	
					30	9.8	32.52	5.88	1.60	
					40	9.0	32.56	5.56	0.53	
					50	8.0	32.65	5.43	0.40	
					75	5.5	32.96	4.87	0.15	
					100	4.8	33.22	4.56	0.10	
					150	5.2	33.92	4.51		
					200	5.7	34.41	4.18		
					250	5.9	34.66	4.04		
				(252M)	BOTTOM	5.9				
30	8.IX.65	0245	42°15'	67°30'	1	13.8	32.24	5.83	0.39	
					10	13.8	32.21	5.90	0.32	
					20	13.6	32.21	5.78	0.42	
					30	11.1	32.26	5.84	1.39	
					40	8.9	32.38	5.75	0.54	
					50	7.8	32.51	5.63	0.26	
					75	5.0	32.72	5.45	0.31	
					100	3.8	32.93	5.15	0.15	
					150	5.0	33.11	4.80		
					200	5.8	33.92	4.49		
					250	5.9	34.30	4.29		
				(265M)	BOTTOM	5.9				
31	8.IX.65	0445	42°00'	67°30'	1	15.3	32.33	5.45	0.74	
					10	15.0	32.31	5.45	1.03	
					20	14.8	32.33	5.54	1.03	
					30	14.6	32.33	5.47	1.29	
					40	14.5	32.33	5.46	1.13	
					50					
					75					
					100					
					150					
					200					
					250					
				(43M)	BOTTOM	14.5				
32	8.IX.65	0735	41°30'	67°30'	1	16.0	32.29	5.38	0.95	
					10	16.0	32.29	5.42	1.03	
					20	16.1	32.30	5.43	1.21	
					30	16.1	32.30	5.45	1.03	
					40					
					50					
					75					
					100					
					150					
					200					
					250					
				(38M)	BOTTOM	16.0				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	8-IX-65	1020	41°00'	67°30'	1	14.2	32.29	5.70	0.95	
					10	14.2	32.28	5.77	0.87	
					20	14.2	32.28	5.88	1.13	
					30	13.9	32.31	5.84	1.91	
					40	12.9	32.34	5.69	1.00	
					50	12.2	32.37	5.53	0.95	
					75					
					100					
					150					
					200					
					250					
				(70M)	BOTTOM	11.7				
34	8-IX-65	1320	40°30'	67°30'	1	14.9	32.34	5.73	0.33	
					10	14.7	32.35	5.88	0.35	
					20	12.9	32.35	6.07	0.48	
					30	12.2	32.43	5.92	1.43	
					40	10.0	32.64	5.66	0.32	
					50	7.0	32.78	5.42	0.23	
					75	6.1	32.97	5.36	0.15	
					100	5.9	33.15	5.20	0.13	
					150					
					200					
					250					
				(135M)	BOTTOM	7.2				
35	8-IX-65	1500	40°15'	67°30'	1	20.1	34.09	5.13	0.11	
					10	20.1	34.09	5.16	0.14	
					20	20.1	34.38	5.14	0.14	
					30	21.1	34.92	4.92	0.12	
					40	20.0	34.26	5.41	0.39	
					50	14.0	33.75	5.93	0.53	
					75	9.0	33.67	5.70	0.37	
					100	9.4	33.94	5.28	0.24	
					150	9.9	34.69	4.55		
					200	9.1	34.97	3.86		
					250	7.1	34.90	3.77		
					BOTTOM					
36	8-IX-65	1635	40°00'	67°30'	1	17.0	32.66	5.45	0.18	
					10	17.0	32.64	5.46	0.20	
					20	20.5	34.07	5.09	0.19	
					30	18.0	35.08	5.40	0.30	
					40	14.0	34.76	5.48	0.50	
					50	13.7	35.04	4.67	0.34	
					75	12.3	35.17	4.20	0.08	
					100	12.9	35.40	3.90	0.02	
					150	11.8	35.40	3.33		
					200	9.8	35.18	3.32		
					250	8.2	35.05	3.26		
					BOTTOM					

TABLE 1

ALB. IV · CRUISE NO. 65-12

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	6·IX·65	1815	39°30'	67°20'	1	23.1	35.09	4.76	0.08	
					10	23.1	35.09	4.77	0.14	
					20	23.1	35.08	4.78	0.11	
					30	23.0	35.17	4.73	0.14	
					40	16.5	35.42	4.89	0.58	
					50	10.0	34.43	5.17	0.33	
					75	8.1	34.57	4.87	0.17	
					100	9.0	34.52	4.78	0.05	
					150	9.2	35.00	4.04		
					200	9.5	35.22	3.48		
					250	8.0	35.13	3.29		
					BOTTOM					
38	11·IX·65	2055	39°30'	68°30'	1	21.3	34.16	5.02	0.06	
					10	20.8	34.14	5.11	0.06	
					20	20.2	33.99	5.13	0.09	
					30	20.1	34.26	5.12	0.10	
					40	17.1	34.80	5.92	0.29	
					50	14.8	34.79	5.90	0.54	
					75	12.2	34.98	4.71	0.25	
					100	12.5	35.37	4.06	0.08	
					150	12.1	35.45	3.55		
					200	10.7	35.37	3.09		
					250	9.5	35.22	2.89		
					BOTTOM					
39	12·IX·65	0005	40°00'	68°30'	1	20.7	34.02	4.96	0.10	
					10	20.7	34.00	5.00	0.09	
					20	20.9	34.20	4.89	0.09	
					30	21.3	34.55	4.83	0.14	
					40	21.0	34.62	4.84	0.19	
					50	15.8	34.75	5.65	0.27	
					75	12.7	35.04	4.60	0.28	
					100	12.3	35.27	4.05	0.08	
					150	12.2	35.45	3.60		
					200	10.8	35.52	3.14		
					250	9.7	35.29	3.01		
					BOTTOM					
40	12·IX·65	0145	40°15'	68°30'	1	16.8	32.93	5.30	0.31	
					10	16.6	32.80	5.42	0.32	
					20	13.7	32.42	5.71	0.64	
					30	12.0	32.61	5.49	0.33	
					40	8.0	33.54	5.39	0.23	
					50	10.0	34.12	5.22	0.24	
					75	7.8	34.26	4.70	0.10	
					100	8.1	34.69	4.14	0.06	
					150	8.2	34.79	3.95		
					200					
					250					
				(155M)	BOTTOM	8.2				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	12·IX·65	0320	40°30'	68°30'	1	15.6	32.33	5.69	0.50	
					10	15.5	32.30	5.77	0.41	
					20	13.9	32.34	5.87	0.74	
					30	12.2	32.39	5.74	1.18	
					40	8.9	32.56	5.25	0.44	
					50	8.3	32.59	5.18	0.34	
					75	7.5	32.79	4.99	0.24	
					100					
					150					
					200					
					250					
				(92M)	BOTTOM	7.2				
42	12·IX·65	0605	41°00'	68°30'	1	14.9	32.35	5.44	1.31	
					10	14.9	32.35	5.55	0.92	
					20	14.9	32.36	5.55	1.08	
					30	15.0	32.35	5.55	1.26	
					40	15.0	32.35	5.56	1.03	
					50	15.0	32.35	5.55	1.29	
					75					
					100					
					150					
					200					
					250					
				(52M)	BOTTOM	15.0				
43	12·IX·65	0905	41°30'	68°30'	1	15.2	32.37	6.00	0.82	
					10	13.0	32.34	6.09	0.60	
					20	12.0	32.38	5.96	0.67	
					30	11.0	32.37	5.56	0.46	
					40	10.3	32.39	5.31	0.29	
					50	9.6	32.41	5.49	0.39	
					75	5.9	32.50	5.33	0.25	
					100					
					150					
					200					
					250					
				(92M)	BOTTOM	4.2				
44	12·IX·65	1045	41°45'	68°30'	1	15.3	32.33	5.74	0.42	
					10	15.0	32.32	5.80	0.68	
					20	12.0	32.40	5.52		
					30	11.5	32.42	5.47	0.33	
					40	10.6	32.40	5.64	0.42	
					50	9.1	32.45	5.80	0.39	
					75	5.1	32.57	5.75	0.35	
					100	3.6	32.81	5.35	0.35	
					150	4.5	32.80	4.50		
					200					
					250					
				(170M)	BOTTOM	5.0				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	12·IX·65	1235	42°00'	68°30'	1	16.5	32.10	5.48	0.32	
					10	16.4	32.08	5.43	0.37	
					20	15.0	32.10	5.45	0.35	
					30	11.1	32.25	5.73	0.76	
					40	9.2	32.36	5.53	0.53	
					50	7.0	32.30	5.56	0.37	
					75	3.7	32.48	5.77	0.24	
					100	3.1	32.63	5.55	0.08	
					150	4.1	33.22	4.51		
					200					
					250					
				(172M)	BOTTOM	4.3				
46	12·IX·65	1550	42°30'	68°30'	1	16.5	32.11	5.52	0.46	
					10	16.5	32.10	5.46	0.45	
					20	16.4	32.10	5.60	1.08	
					30	12.1	32.18	5.84	1.00	
					40	6.0	32.35	5.87	0.29	
					50	3.7	32.42	5.91	0.29	
					75	2.9	32.55	5.76	0.11	
					100	3.2	32.80	5.19	0.08	
					150	4.2	33.50	4.62		
					200	5.3	34.37	4.16		
					250					
				(220M)	BOTTOM	5.3				
47	12·IX·65	1845	43°00'	68°30'	1	14.6	32.09	5.73	0.39	
					10	14.0	32.07	5.91	0.34	
					20	10.7	32.26	6.27	1.91	
					30	9.6	32.45	6.11	0.82	
					40	8.8	32.56	5.84	0.34	
					50	8.1	32.62	5.73	0.26	
					75	5.0	32.71	5.63	0.15	
					100	4.3	32.98	5.33	0.12	
					150	4.8	33.79	4.46		
					200	4.9				
					250					
				(200M)	BOTTOM	4.9				
48	12·IX·65	2145	43°30'	68°29'	1	12.2	32.63	6.57	2.08	
					10	11.8	32.65	6.67	5.46	
					20	10.1	32.65	5.94	1.39	
					30	9.0	32.96	5.62	0.26	
					40	8.2	32.90	5.44	0.26	
					50	7.9	32.85	5.37	0.24	
					75	7.3	33.18	4.85	0.13	
					100	7.1	33.31	4.38	0.09	
					150	6.7				
					200					
					250					
				(174M)	BOTTOM	6.7				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	13·IX·65	0035	44°00'	68°30'	1	10.8	32.31	6.41	5.64	
					10	10.2	32.31	6.29	8.30	
					20	10.0	32.34	6.13	5.46	
					30	9.0	32.35	5.91	5.29	
					40	8.7	32.46	5.48	1.43	
					50	8.3	32.52	5.38	0.42	
					75	8.0	32.62	5.21	0.24	
					100					
					150					
					200					
					250					
				(86M)	BOTTOM	8.0				
50	13·IX·65	0535	43°30'	69°30'	1	13.8	32.16	5.85	0.43	
					10	13.7	32.16	6.03	0.17	
					20	10.5	32.30	6.36	1.18	
					30	7.2	32.41	5.79	0.69	
					40	4.8	32.40	5.67	0.21	
					50	4.2	32.43	5.76	0.23	
					75	3.3	32.53	5.45	0.08	
					100	3.3	32.73	4.96	0.05	
					150					
					200					
					250					
				(125M)	BOTTOM	3.5				
51	13·IX·65	0835	43°00	69°31'	1	15.6	32.01	5.67	0.42	
					10	15.6	32.00	5.81	0.37	
					20	11.2	32.12	6.43	1.77	
					30	6.5	32.28	6.31	0.74	
					40	4.9	32.42	6.17	0.21	
					50	3.9	32.49	5.93	0.19	
					75	3.2	32.62	5.66	0.06	
					100	3.5	32.77	5.43	0.04	
					150	4.2	33.20	4.55		
					200					
					250					
				(165M)	BOTTOM	4.6				
52	13·IX·65	1240	43°00'	70°30'	1	13.6	32.00	5.75	0.26	
					10	13.5	31.98	5.85	0.26	
					20	10.0	32.08	6.01	0.82	
					30	6.2	32.28	5.37	0.21	
					40	5.9	32.31	5.20	0.23	
					50	5.6	32.32	5.16	0.18	
					75	4.9	32.35	4.98	0.13	
					100					
					150					
					200					
					250					
				(85M)	BOTTOM	4.4				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	13.IX.65	1535	42°30'	70°30'	1	12.5	31.88	5.83	0.34	
					10	12.7	31.97	6.10	0.57	
					20	9.2	32.14	5.81	0.60	
					30	6.5	32.24	5.59	0.37	
					40	5.0	32.24	5.08	0.32	
					50	4.8	32.27	5.03	0.15	
					75					
					100					
					150					
					200					
					250					
				(60M)	BOTTOM	4.8				
54	13.IX.65	1825	42°00'	70°30'	1	14.9	31.90	6.05	0.92	
					10	13.8	31.91	6.40	0.92	
					20	7.3	32.07	5.64	5.33	
					30	6.1	32.13	5.18	1.29	
					40					
					50					
					75					
					100					
					150					
					200					
					250					
				(39M)	BOTTOM	6.1				
55	13.IX.65	2335	42°30'	69°30'	1	16.9	32.04	5.55	0.30	
					10	16.9	32.01	5.57	0.30	
					20	16.8	32.03	5.78	0.48	
					30	15.0	32.03	5.86	0.66	
					40	10.0	32.33	6.05	0.30	
					50	5.9	32.40	6.16	0.27	
					75	3.3	32.54	5.95	0.11	
					100	3.4	32.77	5.35	0.04	
					150	4.6	33.34	4.68		
					200	5.1	33.87	4.18		
					250	5.3	34.06	4.22		
					BOTTOM					
56	14.IX.65	0245	42°00'	69°30'	1	15.7	32.05	5.67	0.66	
					10	15.7	32.05	5.76	0.66	
					20	15.6	32.07	5.66	0.78	
					30	14.2	32.12	5.93	0.58	
					40	9.0	32.77	6.01	0.60	
					50	5.2	32.36	5.82	0.44	
					75	3.7	32.62	5.33	0.34	
					100	3.7	32.88	4.89	0.36	
					150	4.4	33.29	4.37		
					200	5.1	33.72	3.78		
					250					
				(220M)	BOTTOM	5.1				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	14.IX.65	0615	41°30'	69°30'	1	10.2	32.07	5.94	0.81	
					10	9.6	32.16	5.95	0.95	
					20	8.5	32.26	5.87	0.49	
					30	6.9	32.31	5.64	0.37	
					40	6.6	32.34	5.63	0.27	
					50					
					75					
					100					
					150					
					200					
					250					
				(40m)	BOTTOM	6.6				
58	14.IX.65	0935	41°00'	69°13'	1	12.2	31.76	5.76	0.74	
					10	12.2	32.31	5.76	0.53	
					20	12.1	32.37	5.63	0.29	
					30	12.1	32.38	5.61	0.41	
					40	12.0	32.40	5.58	0.33	
					50	11.9	32.41	5.60	0.33	
					75					
					100					
					150					
					200					
					250					
				(65m)	BOTTOM	11.9				
59	14.IX.65	1230	40°30'	69°30'	1	16.3	32.12	5.44	0.57	
					10	16.3	32.22	5.52	0.79	
					20	14.0	32.33	5.63	0.46	
					30	11.5	32.41	5.51	0.30	
					40	10.1	32.52	5.22	0.26	
					50	10.1	32.54	5.19	0.31	
					75					
					100					
					150					
					200					
					250					
				(63m)	BOTTOM	9.5				
60	14.IX.65	1510	40°00'	69°30'	1	21.1	34.02	4.96	0.31	
					10	21.0	34.04	5.02	0.21	
					20	20.6	34.05	5.52	0.32	
					30	15.3	33.86	6.11	0.87	
					40	12.0	34.35	5.65	0.33	
					50	11.0	34.17	5.21	0.14	
					75	8.8	34.02	4.86	0.11	
					100	9.9	34.61	4.45	0.09	
					150					
					200					
					250					
				(127m)	BOTTOM	10.9				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	14.IX.65	1640	39°45'	69°30'	1	21.7	33.67	5.03	0.10	
					10	22.0	33.69	5.07	0.12	
					20	22.7	34.19	5.08	0.15	
					30	23.1	34.69		0.39	
					40	17.0	34.04	6.11	0.71	
					50	12.5	34.07	5.74	0.82	
					75	12.7	35.31	4.32	0.14	
					100	12.9	35.49	3.73	0.01	
					150	12.7	35.43	3.20		
					200	11.3	35.29	3.12		
					250	10.0	35.16	3.07		
					BOTTOM					
62	14.IX.65	1820	39°30'	69°30'	1	20.5	33.41	5.21	0.15	
					10	21.0	33.41	5.23	0.17	
					20	21.1	33.78	5.21	0.17	
					30	17.5	33.46	6.02	0.33	
					40	11.0	33.66	6.03	0.67	
					50	13.2	34.14	5.80	0.29	
					75	7.8	34.26	5.26	0.12	
					100	8.0	34.35	5.04	0.04	
					150	9.2	34.92	4.23		
					200	9.5	35.16	3.58		
					250	9.1	35.20	3.03		
					BOTTOM					
63	14.IX.65	2255	39°30'	70°30'	1	20.2	33.16	5.19	0.19	
					10	20.1	33.14	5.19	0.23	
					20	19.0	33.30	6.19	0.42	
					30	10.5	33.34	5.49	0.27	
					40	7.9	33.42	5.28	0.25	
					50	8.1	33.87	5.37	0.18	
					75	9.9	34.55	4.91	0.08	
					100	10.7	34.98	4.34	0.04	
					150	10.7	35.23	3.54		
					200	9.5	35.17	3.17		
					250	8.2	35.09	3.07		
					BOTTOM					
64	15.IX.65	0035	39°45'	70°30'	1	20.5	33.56	5.09	0.21	
					10	20.4	33.54	5.12	0.16	
					20	15.0	33.40	6.10	0.26	
					30	9.0	33.24	6.30	0.83	
					40	8.1	33.23	5.52	0.25	
					50	8.6	33.55	5.52	0.21	
					75	9.2	34.43	4.92	0.06	
					100	11.6	35.18	4.10	0.04	
					150	11.1	35.35	3.42		
					200	9.7	35.21	3.07		
					250	8.1	35.06	3.06		
					BOTTOM					

TABLE 1

ALB. IV CRUISE NO. 65-12

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	15.IX.65	0210	40°00'	70°30'	1	20.8	33.78	5.10	0.19	
					10	20.8	33.77	5.15	0.16	
					20	20.7	33.77	5.15	0.22	
					30	17.5	33.95	5.79	0.60	
					40	11.5	33.49	5.95	0.60	
					50	9.3	33.62	5.67	0.25	
					75	10.5	34.66	4.88	0.22	
					100	11.9	35.22	4.21	0.07	
					150	11.0	35.31	3.38		
					200	9.9	35.19	3.16		
					250	9.1	35.11	3.14		
					BOTTOM					
66	15.IX.65	0510	40°30'	70°30'	1	18.2	33.33	5.14	0.33	
					10	18.2	33.31	5.17	0.26	
					20	18.1	33.33	5.28	0.27	
					30	16.5	32.92	5.70	0.64	
					40	9.6	32.58	5.46	0.73	
					50	8.1	32.87	5.16	0.24	
					75					
					100					
					150					
					200					
					250					
				(72M)	BOTTOM	7.7				
67	15.IX.65	0755	41°00'	70°30'	1	17.6	32.57	5.43	0.24	
					10	17.7	32.57	5.45	0.48	
					20	13.9	32.49	6.11	0.39	
					30	10.3	32.57	5.15	0.39	
					40	10.2	32.57	5.06	0.46	
					50					
					75					
					100					
					150					
					200					
					250					
				(46M)	BOTTOM	10.2				
68	15.IX.65	1215	41°00'	71°30'	1	17.7	32.17	5.34	0.30	
					10	17.7	32.17	5.38	0.30	
					20	17.4	32.19	5.55	0.44	
					30	11.0	32.33	4.79	1.18	
					40	9.5	32.35	4.55	2.51	
					50					
					75					
					100					
					150					
					200					
					250					
				(48M)	BOTTOM	9.4				

TABLE 1

ALB. IV CRUISE NO. 65-12

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	15-IV-65	[illegible]	40°[illegible]	71°30'	1	19.0	32.15	5.19	0.26	
					10	19.0	32.14	5.21	0.25	
					20	6.8	32.75	5.16	0.29	
					30	4.7	32.74	5.82	0.34	
					40		32.56		0.27	
					50		32.57		0.41	
					75					
					100					
					150					
					200					
					250					
					BOTTOM					
70	15-IV-65	1755	40°00'	71°30'	1	19.2	33.24	5.26	0.30	
					10	19.2	33.23	5.30	0.29	
					20	19.1	33.27	5.30	0.35	
					30	13.5	33.30	6.11	0.58	
					40	8.1	33.15	5.62	0.24	
					50	7.8	33.32	5.26	0.16	
					75	7.9	33.49	5.08	0.15	
					100	9.6				
					150					
					200					
					250					
				(1051)	BOTTOM	9.8				
71	15-IV-65	1830	39°45'	71°30'	1	21.2	33.48	5.08	0.17	
					10	21.1	33.45	5.08	0.16	
					20	18.7	33.97	5.43	0.35	
					30	14.9	33.21	5.99	0.58	
					40	12.2	33.78	6.15	0.32	
					50	9.2	33.57	5.89	0.21	
					75	9.0	33.88	5.47	0.27	
					100	9.8	34.43	4.92	0.06	
					150	10.1	34.80	4.40		
					200	10.0	35.04	3.62		
					250	7.9	35.05	3.33		
					BOTTOM					
72	15-IV-65	2120	39°30'	71°30'	1	21.9	33.78	5.08	0.13	
					10	21.9	33.78	5.03	0.11	
					20	21.8	33.83	5.09	0.13	
					30	18.0	34.02	6.23	0.39	
					40	13.0	34.08	6.12	0.53	
					50	10.2	34.13	5.75	0.28	
					75	13.0	35.24	4.57	0.08	
					100	13.2	35.44	4.31	0.04	
					150	12.8	35.51	3.80		
					200	11.2	35.37	3.58		
					250	9.8	35.26	2.97		
					BOTTOM					

TABLE 1

ALB. IV CRUISE NO. 65-12

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	16-IX-65	0305	39°00'	72°30'	1	23.0	33.70	5.02	0.14	
					10	23.0	33.69	4.92	0.12	
					20	23.0	33.04	4.93	0.13	
					30	23.0	34.45	5.24	0.24	
					40	18.5	34.91	5.78	0.33	
					50	15.0	34.01	5.79	0.50	
					75	14.1	35.17	4.47	0.21	
					100	13.2	35.35	4.01	0.07	
					150	12.4	35.39	3.47		
					200	11.0	35.23	3.18		
					250	9.7	35.14	3.09		
					BOTTOM					
74	16-IX-65	0610	39°30'	72°30'	1	21.3	33.59	5.08	0.16	
					10	21.2	33.58	5.08	0.20	
					20	21.2	33.58	5.08	0.21	
					30	11.0	32.82	6.14	1.03	
					40	9.3	32.97	5.57	0.37	
					50	5.9	32.76	5.70	0.32	
					75	8.7	33.84	5.07	0.12	
					100	9.8	34.46	4.81	0.08	
					150					
					200					
					250					
				(120M)	BOTTOM	10.3				
75	16-IX-65	0915	40°00'	72°30'	1	20.7	32.48	5.09	0.14	
					10	20.6	32.48	5.17	0.20	
					20	20.3	32.49	6.46	0.76	
					30	7.3	32.49	5.46	0.30	
					40	4.4	32.45	5.79	0.29	
					50	4.4	32.45	5.62	0.26	
					75					
					100					
					150					
					200					
					250					
				(63M)	BOTTOM	4.6				
76	16-IX-65	1210	40°30'	72°30'	1	17.8	32.13	5.32	0.42	
					10	17.8	32.12	5.34	0.46	
					20	16.5	32.15	5.59	0.64	
					30	7.6	32.34	5.57	1.69	
					40	7.3	32.35	5.40	0.51	
					50					
					75					
					100					
					150					
					200					
					250					
				(43M)	BOTTOM	7.2				