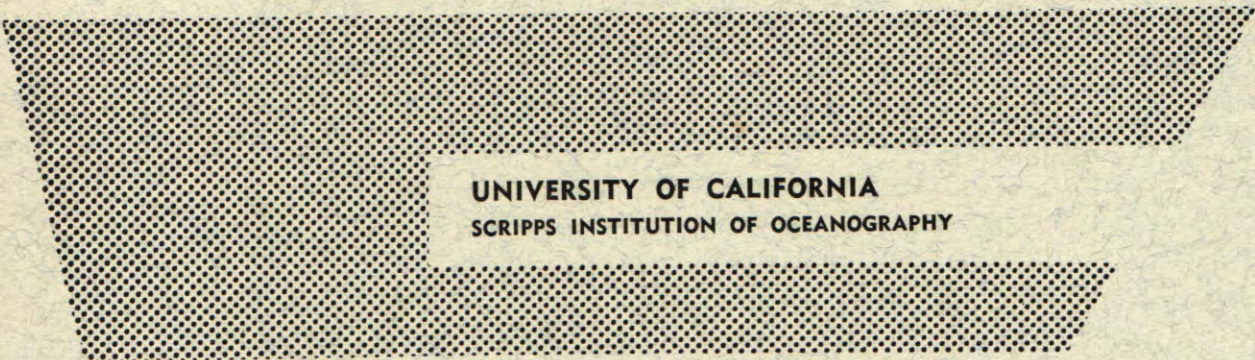


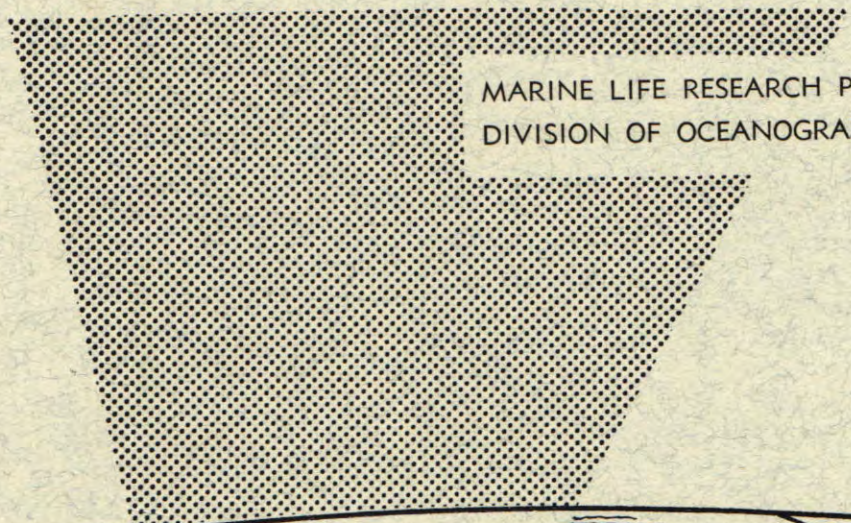
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TERMINAL ISLAND, CALIFORNIA

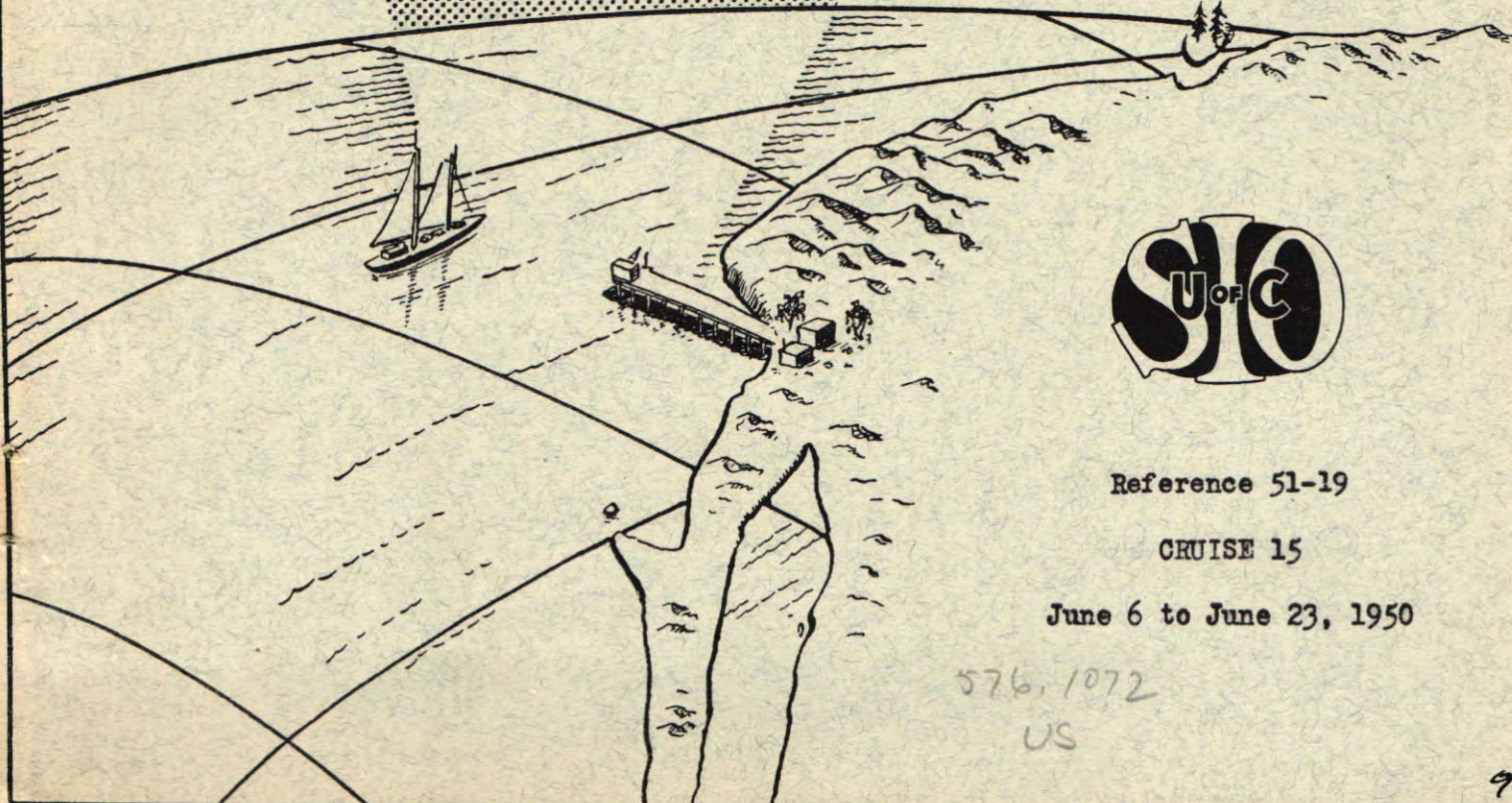


UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA



MARINE LIFE RESEARCH PROGRAM
DIVISION OF OCEANOGRAPHY



Reference 51-19

CRUISE 15

June 6 to June 23, 1950

576.1072
US

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CRUISE 15 - June 6 to June 23, 1950

MARINE LIFE RESEARCH PROGRAM

Report prepared August 20, 1951

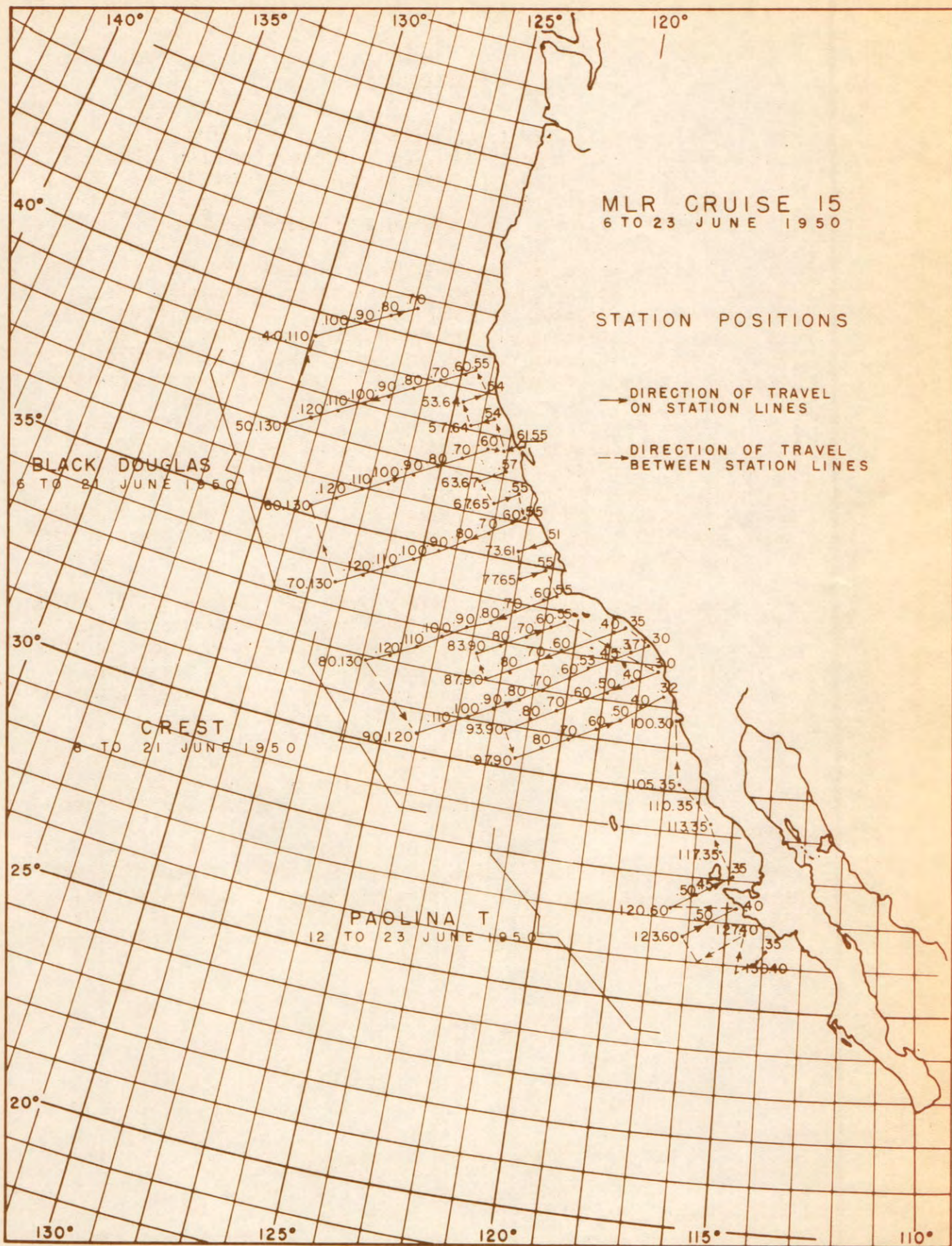
Physical and Chemical Data Report No. 15

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INTRODUCTION

The data presented in this report were collected on the fifteenth full-scale cruise conducted in the Marine Life Research Program. The three ships participating were the MV CREST and the MV PAOLINA-T, of the Scripps Institution of Oceanography, and the MV BLACK DOUGLAS, of the U. S. Fish and Wildlife Service.

Data are presented in the form of tabulated values at standard depths and of charts of horizontal distributions. On the charts of horizontal distribution a circle is drawn around the station dot if the quantity represented is missing for that station; an "X" is drawn through the station dot if the value observed does not conform to the field and was not used in drawing the contours.

In the tabulated data extrapolated values are indicated by parentheses. The time given is the time when the messenger was released. When more than one cast was made on a station, both messenger time and both wire angles are given; the time and the wire angle given first are for the shallow cast. Horizontal lines signify the depth to which each cast reached.

Because of Nansen bottle pretripping on Stations 77.65, 90.53, 93.30, 93.60, 93.80, and 123.40, it was difficult to ascertain depths of observation taken. In processing such stations an effort is made to correct for the pretripping. The Nansen bottle at 600 meters on the CREST stations is believed to have leaked occasionally; hence its salinity and oxygen values were modified or rejected.

The original data and the data as modified during various steps in processing are on file with the Division of Oceanography. Copies may be made available. The data are processed on the six standard forms of this division.

The presentation of data in these Physical and Chemical Data Reports does not constitute publication, and this information may be subject to modification as the program continues. Results of various phases of the investigations will be published in scientific journals for general distribution.

PERSONNEL

iv

Roger R. Revelle, Director of the Scripps Institution of
Oceanography

Oceanographers

Horrer, Paul L., Assistant Oceanographer
Reid, Robert O., Assistant Oceanographer
Lewis, George J., Jr., Associate in Oceanography
Reid, Joseph L., Jr., Associate in Oceanography
Wooster, Warren S., Associate in Oceanography

Marine Superintendent

Stose, Clemens W.

Ships' Captains

Brandal, G., MV CREST
Joelson, S. M., MV BLACK DOUGLAS
Ekberg, P. R., MV PAOLINA-T

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Thrailkill, James R., Marine Biologist
Kramer, David, Marine Biologist
Colter, John C., Chemistry Aid
Carlson, Deane R., Marine Technician, Scripps Institution
Beckwith, Warren W., Jr., Marine Technician, Scripps Institution
Wisner, Robert L., Senior Laboratory Technician, Scripps
Institution
Eschen, E., Student, San Francisco State College
Kerr, R., Student, San Francisco State College

MV CREST

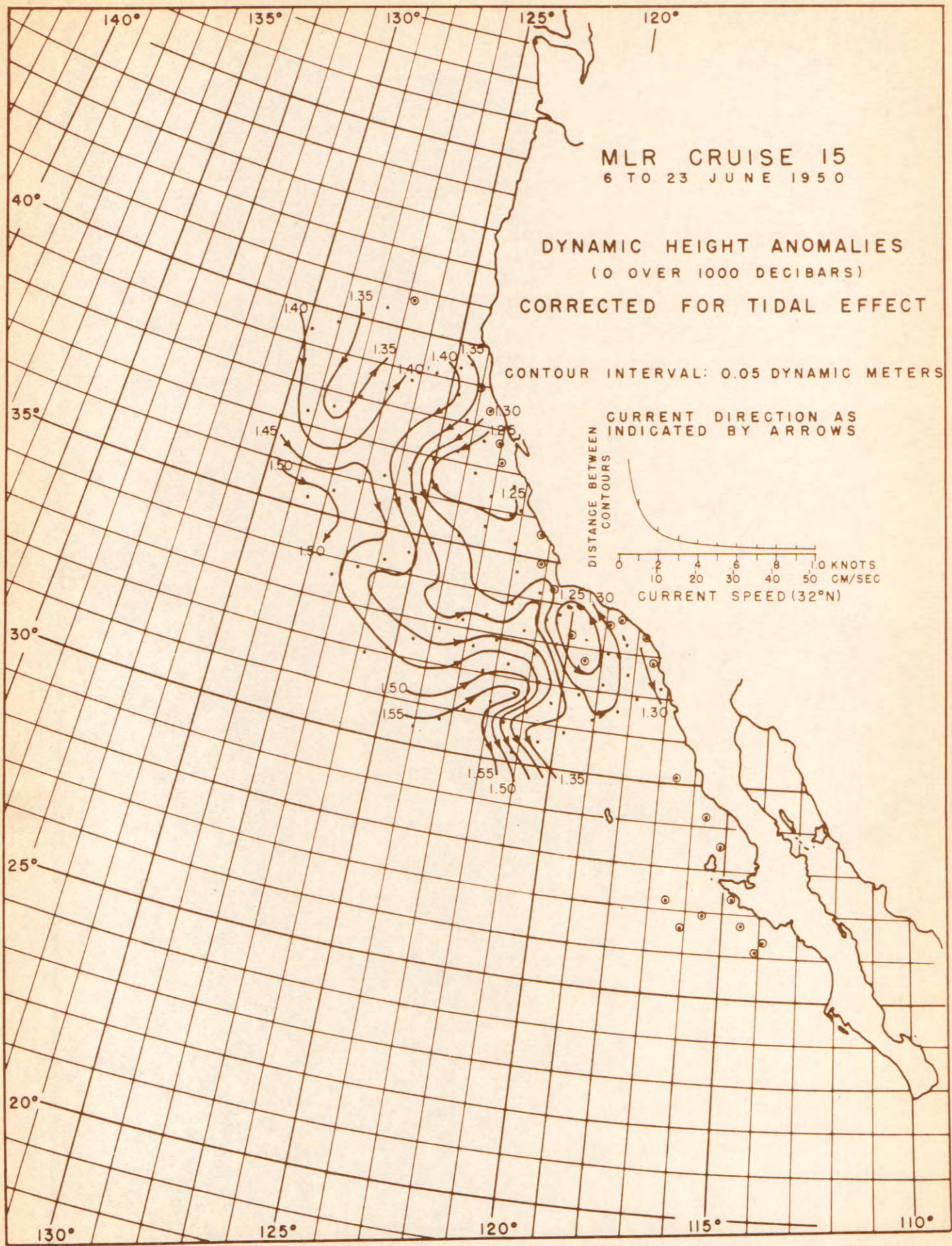
Marquardt, Robert L., Senior Marine Technician
Gossett, David A., Marine Technician
Sibley, Slade W., Marine Technician
Wilson, Ray E., Marine Technician, Chemical
Vetter, Richard C., Research Assistant
Counts, Robert C., Marine Biologist, U. S. Fish and Wildlife
Service

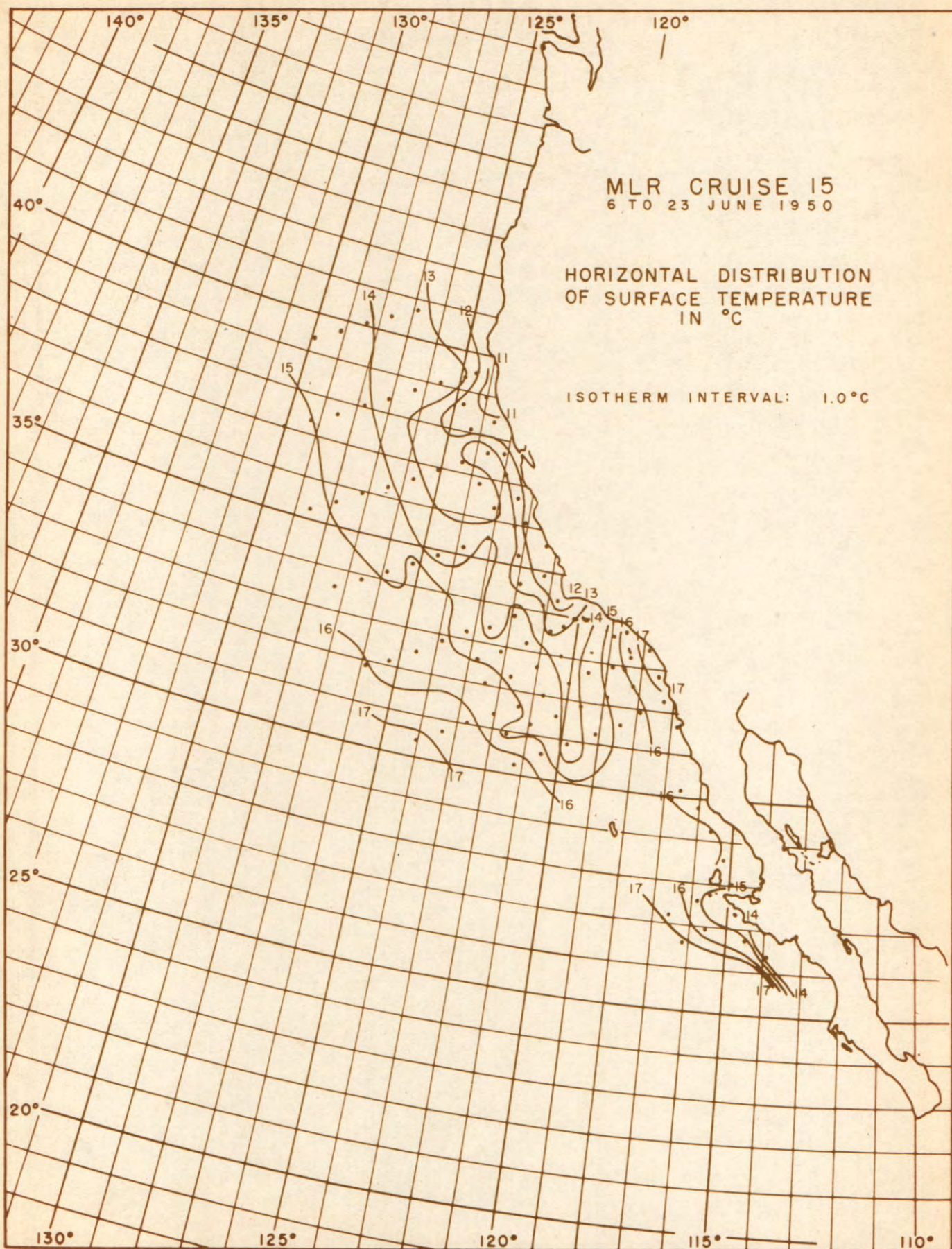
PAOLINA-T

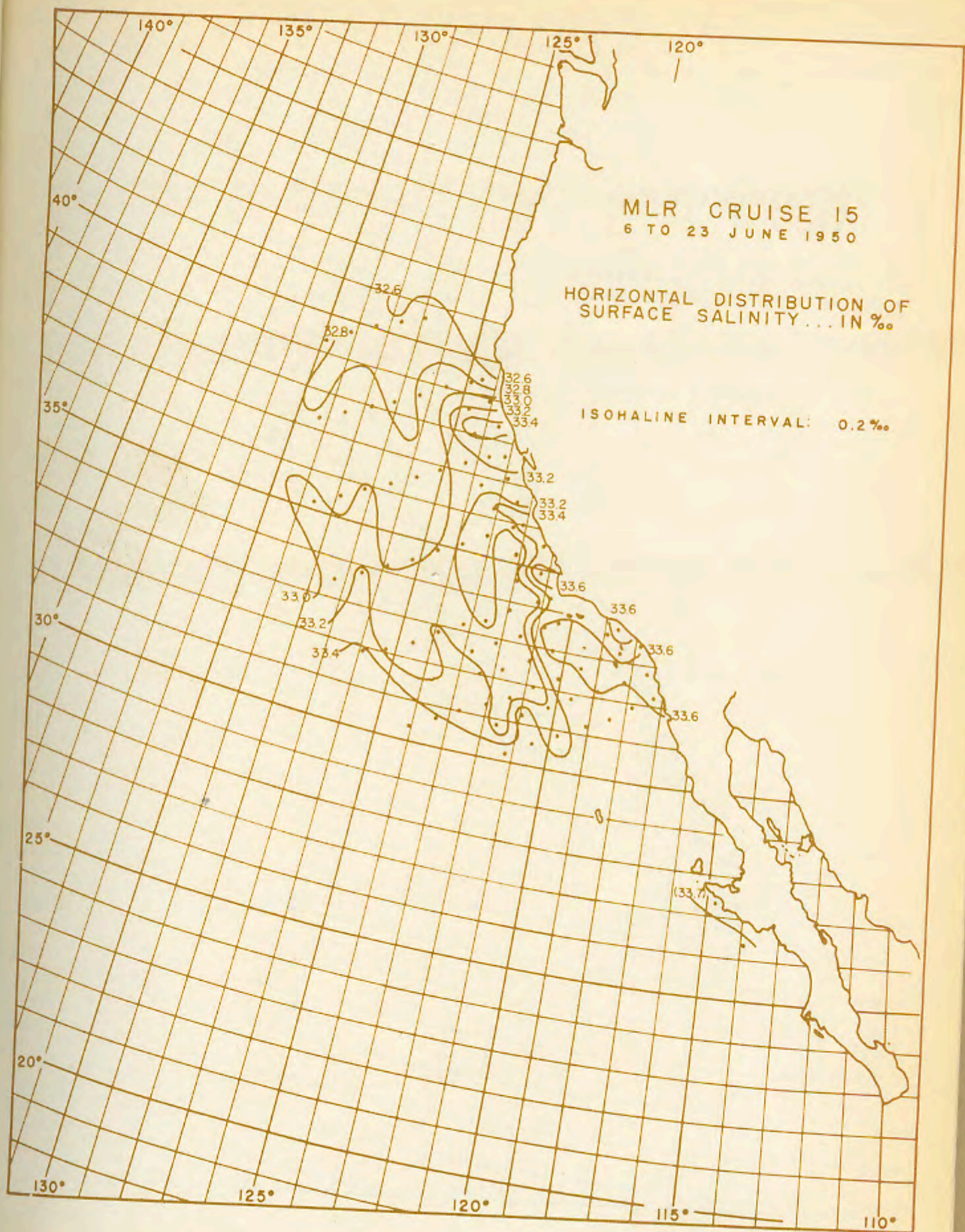
Sampson, Robert K., Jr., Senior Marine Technician
Clark, Peter S., Marine Technician
Forshaw, Andrew W., Marine Technician
Koide, Minoru, Marine Technician, Chemical
Kvammen, Kenneth R., Research Assistant

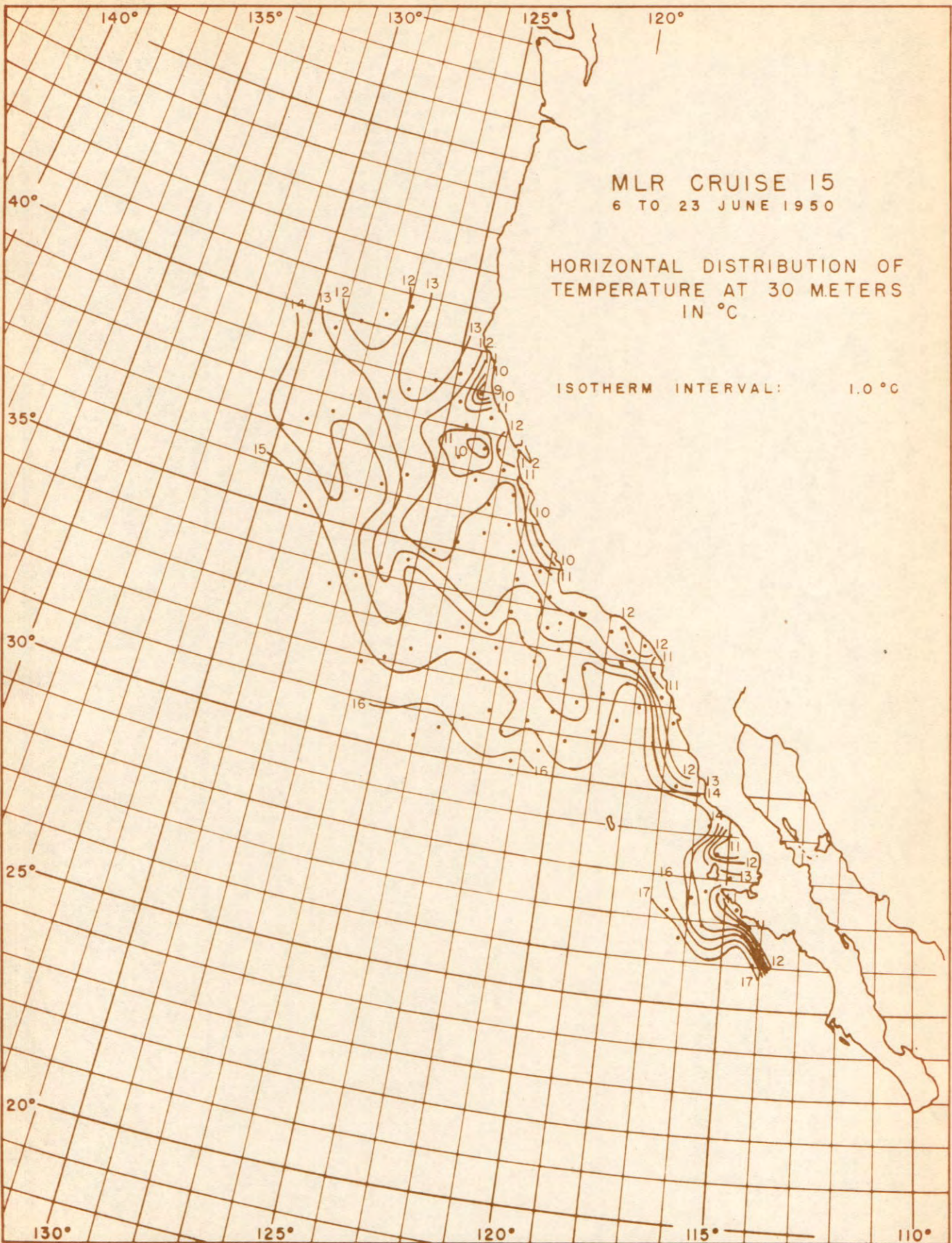
PERSONNEL PARTICIPATING IN PREPARATION OF DATA

Ames, Robert F., Laboratory Assistant Trainee
Barney, Ruth M., Secretary
Barstow, Mary C., Laboratory Technician
Beckwith, Warren W., Jr., Senior Marine Technician
Brown, Curthie F., Engineering Aid
Browne, Geneva S., Engineering Aid
Cunningham, Leonard M., Jr., Marine Technician
Eby, Lorraine L., Engineering Aid
Edwards, Frank H., Jr., Marine Technician
Forshaw, Andrew W., Engineering Aid
Gilkey, Robert W., Marine Technician
Gossett, David A., Senior Marine Technician
Haddow, Robert W., Marine Technician
Hargrett, Anne L., Typist-Clerk
Haulman, Doris V., Engineering Aid
Hazelbaker, Bernard R., Engineering Aid
Herreshoff, Karl F., Marine Technician, Chemical
Hodges, Carol J., Engineering Aid
Hutchins, Dorsey M., Typist-Clerk
Jennings, Fennan D., Research Assistant
Kartrude, Robert C., Senior Engineering Aid
Matheny, Gladys K., Engineering Aid
Kirk, Robert W., Laboratory Technician
Klein, Hans T., Principal Laboratory Technician
Mao, Han-Lee, Research Assistant
McCoy, Willis M., Engineering Aid
Mead, Richard V., Principal Marine Technician
Miller, Bernadette L., Engineering Aid
Milne, Peter, Marine Technician
Payne, Miles M., Laboratory Assistant Trainee
Propsner, Ruth O., Engineering Aid
Ratty, Donald K., Marine Technician
Richardson, Shirley B., Laboratory Technician
Shippey, Henry G., Marine Technician
Simmons, Charles V., Laboratory Assistant Trainee
Smith, Alan C., Senior Marine Technician
Squire, Mary C., Laboratory Technician
Trent, Luz F., Laboratory Technician
Veitzer, Leonard M., Marine Technician
Wheeler, Marshall L., Jr., Laboratory Technician
Whitney, Alice D., Engineering Aid
Wilburn, Virginia A., Statistician
Wilkes, Frances C., Engineering Aid
Winchell, Perrin, Marine Technician, Chemical









STATION 40.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°42'N 126°55'W June 21, 1950 0058 GCT Wire angle: 25°
 Sounding: 1,680 fms. Depth of observation: 45 m. Weather: overcast
 Sea: high Wind: 340°, force 6

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5\delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	13.19	32.70	24.60	335.1	.0000	-	-
10	13.15	32.66	24.57	337.5	.0338	-	-
20	13.15	32.66	24.57	337.7	.0677	-	-
30	12.06	32.67	24.79	317.2	.1005	-	-

STATION 40.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°23'N 127°40'W June 20, 1950 1729 GCT Wire angle: 33°
 Sounding: 900 fms. Depth of observation: 1,004 m. Weather: overcast
 Sea: rough Wind: 340°, force 5

0	13.59	32.66	24.49	345.7	.0000	5.82	-
10	13.59	32.66	24.49	345.9	.0347	5.80	-
20	12.40	32.74	24.78	318.0	.0680	5.87	-
30	11.75	32.74	24.90	306.5	.0994	5.88	-
50	11.07	32.74	25.03	295.2	.1599	5.90	-
75	10.10	32.75	25.20	278.9	.2320	5.82	-
100	9.45	32.84	25.38	262.5	.3001	5.39	-
150	9.04	32.99	25.56	246.0	.428	5.02	-
200	8.20	33.66	26.21	184.7	.537	3.52	-
250	7.65	33.92	26.50	158.3	.623	2.52	-
300	7.05	34.01	26.65	144.1	.699	2.00	-
400	6.05	34.08	26.84	127.0	.836	1.32	-
500	5.34	34.19	27.02	111.1	.956	.97	-
600	4.88	34.25	27.12	102.1	1.063	.55	-
700	4.59	34.28	27.17	97.4	1.164	.30	-
800	4.20	34.37	27.29	87.1	1.257	.30	-
1000	3.49	34.43	27.41	76.0	1.422	.34	-

STATION 40.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°02'N 128°25'W June 20, 1950 1001 GCT Wire angle: 0°
 Sounding: 2,480 fms. Depth of observation: 1,194 m. Weather: overcast
 Sea: rough Wind: 300°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \sigma_s$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	14.28	32.79	24.44	349.6	.0000	6.05	-
10	13.34	32.88	24.71	324.9	.0339	6.15	-
20	12.45	32.87	24.87	309.3	.0657	6.21	-
30	11.55	32.87	25.04	293.5	.0960	6.19	-
50	9.97	32.94	25.37	262.3	.1518	5.80	-
75	8.85	33.20	25.75	226.2	.2132	5.87	-
100	8.52	33.60	26.12	192.1	.2658	4.40	-
150	7.86	33.83	26.40	166.3	.356	2.87	-
200	7.40	33.98	26.58	149.6	.436	2.26	-
250	6.95	34.04	26.69	139.7	.508	1.93	-
300	6.49	34.07	26.78	132.1	.577	1.69	-
400	5.71	34.11	26.91	120.4	.704	1.07	-
500	5.20	34.20	27.04	108.6	.820	.60	-
600	4.76	34.27	27.15	99.2	.925	.32	-
700	4.40	34.33	27.23	91.5	1.021	.30	-
800	4.10	34.38	27.30	85.2	1.110	.30	-
1000	3.53	34.47	27.43	73.5	1.270	.41	-

STATION 40.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°42'N 129°10'W June 20, 1950 0325 GCT Wire angle: 7°
 Sounding: 2,500 fms. Depth of observation: 1,185 m. Weather: partly cloudy
 Sea: moderate Wind: 310°, force 2

0	14.39	32.75	24.39	354.8	.0000	5.97	-
10	14.26	32.72	24.39	354.6	.0356	5.93	-
20	13.40	32.73	24.58	337.4	.0703	6.27	-
30	12.27	32.75	24.81	315.1	.1031	6.40	-
50	11.91	32.79	24.91	306.1	.1655	6.45	-
75	9.03	32.81	25.42	257.8	.2364	6.05	-
100	8.97	33.35	25.85	217.3	.2962	5.12	-
150	8.46	34.04	26.47	159.5	.391	2.95	-
200	7.94	34.05	26.56	152.0	.469	2.27	-
250	7.35	34.04	26.64	145.2	.544	1.98	-
300	6.67	34.02	26.71	138.2	.616	1.77	-
400	5.75	34.08	26.88	123.2	.747	1.37	-
500	5.12	34.12	26.99	113.6	.867	.74	-
600	4.59	34.21	27.12	101.6	.975	.44	-
700	4.24	34.29	27.22	92.6	1.073	.33	-
800	3.99	34.35	27.29	86.1	1.164	.30	-
1000	3.46	(34.45)	(27.42)	(74.2)	(1.326)	(.32)	-

STATION 40.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°23'N 129°55'W June 18, 1950 2035 GCT Wire angle: 17°
Sounding: 2,460 fms. Depth of observation: 1,131 m. Weather: overcast
Sea: rough Wind: 310°, force 3

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5\delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μg at/L)
0	14.93	32.83	24.34	359.8	.0000	5.92	-
10	14.64	32.83	24.40	354.2	.0358	6.05	-
20	14.27	32.82	24.47	347.7	.0711	5.90	-
30	13.90	32.80	24.53	342.2	.1057	5.95	-
50	11.50	32.74	24.95	302.6	.1705	6.45	-
75	10.50	32.77	25.15	284.0	.2442	6.35	-
100	9.51	32.72	25.28	272.3	.3142	6.38	-
150	8.09	32.87	25.61	240.9	.443	5.87	-
200	7.70	33.72	26.33	173.1	.548	4.88	-
250	7.20	33.87	26.52	155.8	.630	4.01	-
300	6.36	33.93	26.68	140.8	.705	3.32	-
400	5.20	33.96	26.85	125.4	.839	2.45	-
500	4.76	34.10	27.01	110.8	.958	.99	-
600	4.63	34.21	27.11	102.1	1.066	.45	-
700	4.29	34.26	27.19	95.4	1.165	.31	-
800	3.92	34.29	27.25	89.7	1.259	.32	-
1000	3.50	34.39	27.37	79.1	1.430	.44	-

STATION 50.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°30'N 124°30'W June 17, 1950 0055 GCT Wire angle: 18°
Sounding: 1,110 fms. Depth of observation: 1,075 m. Weather: overcast
Sea: moderate Wind: 320°, force 2

0	12.48	32.63	24.68	327.1	.0000	6.40	-
10	12.44	32.66	24.71	324.3	.0327	6.30	-
20	12.30	32.68	24.75	320.6	.0651	6.24	-
30	12.06	32.70	24.81	315.0	.0970	6.23	-
50	9.35	32.84	25.39	260.0	.1548	6.30	-
75	9.29	32.87	25.43	257.3	.2198	5.57	-
100	8.76	33.39	25.92	211.2	.2787	4.87	-
150	8.37	33.72	26.24	181.9	.378	4.02	-
200	7.79	33.92	26.48	159.5	.464	2.69	-
250	7.08	34.00	26.64	144.5	.540	2.26	-
300	6.52	34.04	26.75	134.7	.611	1.87	-
400	5.78	34.07	26.87	124.3	.741	.96	-
500	5.39	34.14	26.97	115.4	.862	.59	-
600	5.03	34.22	27.08	106.2	.974	.45	-
700	4.51	34.27	27.17	97.2	1.076	.33	-
800	4.25	34.35	27.27	89.1	1.171	.33	-
1000	3.80	34.44	27.38	78.9	1.340	.46	-

STATION 50.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°20'N 124°52'W June 17, 1950 0510 GCT Wire angle: 2°
Sounding: 1,615 fms. Depth of observation: 1,191 m. Weather: overcast
Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	13.37	32.81	24.65	330.4	.0000	6.04	-
10	13.03	32.81	24.71	324.2	.0329	6.00	-
20	12.99	32.81	24.72	323.7	.0654	6.09	-
30	12.95	32.82	24.74	322.	.0978	6.08	-
50	12.66	32.86	24.83	313.6	.1618	5.92	-
75	10.85	32.84	25.14	284.6	.2370	6.22	-
100	9.85	32.86	25.33	267.3	.3064	5.43	-
150	8.46	33.41	25.98	206.2	.426	4.08	-
200	8.17	33.83	26.35	171.7	.521	2.70	-
250	7.84	33.97	26.51	157.3	.604	2.34	-
300	7.15	34.04	26.66	143.2	.679	1.93	-
400	5.50	34.08	26.91	120.1	.812	.94	-
500	4.94	34.09	26.98	113.7	.930	.59	-
600	4.85	34.23	27.10	103.2	1.039	.42	-
700	4.55	34.29	27.19	96.2	1.140	.35	-
800	4.08	34.33	27.27	88.6	1.233	.33	-
1000	3.65	34.43	27.39	77.9	1.402	.42	-

STATION 50.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°00'N 125°36.5'W June 17, 1950 1112, 1125 GCT Wire
angle: 7°, 7° Sounding: 2,100 fms. Depth of observation: 10, 1183 m.
Weather: intermittent slight drizzle Sea: moderate Wind: 320°, force 1

0	13.43	32.86	24.67	327.9	.0000	5.72	-
10	13.48	32.84	24.65	330.6	.0331	5.93	-
20	13.40	32.84	24.66	329.3	.0662	5.99	-
30	13.20	32.84	24.70	325.7	.0991	6.01	-
50	12.65	32.86	24.83	314.4	.1634	6.00	-
75	11.50	32.92	25.09	289.9	.2394	6.02	-
100	9.84	33.14	25.55	246.4	.3068	5.71	-
150	8.77	33.46	25.97	207.1	.421	3.90	-
200	8.18	33.89	26.40	167.4	.515	2.56	-
250	7.66	33.98	26.54	154.0	.596	2.05	-
300	7.20	34.02	26.64	145.4	.672	1.67	-
400	6.31	34.04	26.78	133.3	.812	.95	-
500	5.58	34.10	26.92	120.8	.940	.68	-
600	4.93	34.14	27.02	110.9	1.057	.45	-
700	4.48	34.18	27.11	103.5	1.165	.35	-
800	4.14	34.25	27.20	95.3	1.265	.33	-
1000	3.68	34.43	27.39	78.2	1.441	.34	-

STATION 50.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $38^{\circ} 40' N$ $126^{\circ} 21' W$ June 17, 1950 1731, 1758 GCT Wire angle:
 $5^{\circ}, 5^{\circ}$ Sounding: 2,360 fms. Depth of observation: 296, 1,183 m. Weather:
 overcast Sea: slight Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	13.47	32.84	24.65	330.1	.0000	5.82	--
10	13.40	32.84	24.66	329.0	.0331	5.92	--
20	13.33	32.84	24.68	328.0	.0661	6.05	--
30	13.22	32.85	24.71	325.4	.0989	6.12	--
50	12.94	32.91	24.81	316.1	.1633	6.15	--
75	12.61	32.88	24.85	312.8	.2424	5.99	--
100	10.30	33.03	25.39	262.0	.3147	5.73	--
150	9.49	33.51	25.89	214.5	.435	3.80	--
200	8.45	33.78	26.27	179.5	.534	3.05	--
250	7.76	33.96	26.51	156.9	.619	2.30	--
300	7.34	34.04	26.64	145.9	.695	1.70	--
400	6.43	34.07	26.78	132.7	.835	1.30	--
500	5.64	34.09	26.90	122.3	.964	.77	--
600	5.31	34.22	27.04	109.6	1.081	.35	--
700	4.90	34.30	27.15	99.7	1.186	.33	--
800	4.41	34.35	27.25	91.1	1.283	.32	--
1000	3.93	34.43	27.36	81.2	1.457	.36	--

STATION 50.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $38^{\circ} 20' N$ $127^{\circ} 05' W$ June 18, 1950 0018, 0134 GCT Wire angle:
 $2^{\circ}, 5^{\circ}$ Sounding: 2,460 fms. Depth of obsn: 299, 1,190 m. Weather: overcast
 Sea: moderate Wind: 320° , force 2

0	13.61	33.75	25.32	266.0	.0000	6.21	--
10	13.35	33.75	25.37	261.3	.0265	6.17	--
20	13.12	33.74	25.41	257.8	.0525	6.15	--
30	12.90	33.72	25.44	255.4	.0783	6.17	--
50	11.65	33.68	25.65	236.0	.1277	6.30	--
75	10.52	33.74	25.90	212.7	.1841	6.20	--
100	9.67	33.75	26.05	198.6	.2358	6.05	--
150	8.80	33.94	26.34	172.0	.329	4.55	--
200	8.65	33.85	26.29	177.3	.417	2.40	--
250	8.28	33.93	26.41	166.7	.504	2.12	--
300	7.47	33.96	26.56	153.6	.584	2.02	--
400	6.52	34.04	26.75	136.1	.730	1.15	--
500	5.63	34.07	26.89	123.6	.861	.86	--
600	5.12	34.23	27.07	106.5	.977	.57	--
700	4.77	34.32	27.18	96.6	1.080	.40	--
800	4.38	34.33	27.24	92.2	1.175	.42	--
1000	3.69	34.38	27.35	82.0	1.351	.49	--

STATION 50.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°00'N 127°49'W June 18, 1950 0805 GCT Wire angle: 0°
 Sounding: 2,500 fms. Depth of observation: 1,197 m. Weather: overcast
 Sea: rough Wind: 280°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μg at/L)
0	14.12	32.94	24.59	335.5	.0000	5.90	-
10	13.98	32.94	24.62	332.9	.0336	5.72	-
20	13.63	32.94	24.69	326.4	.0667	5.45	-
30	13.52	32.94	24.72	324.5	.0993	5.43	-
50	12.20	32.97	25.00	298.1	.1619	5.95	-
75	10.07	33.03	25.42	257.7	.2318	5.70	-
100	9.27	33.26	25.74	228.6	.2929	4.82	-
150	8.29	33.78	26.29	176.3	.395	2.80	-
200	7.83	33.94	26.49	158.6	.479	2.27	-
250	7.31	33.99	26.60	148.4	.556	2.00	-
300	6.62	34.00	26.70	139.0	.629	1.77	-
400	5.93	34.11	26.88	123.2	.761	.88	-
500	5.36	34.18	27.01	112.1	.880	.60	-
600	4.93	34.18	27.06	107.9	.991	.35	-
700	4.56	34.22	27.13	101.5	1.096	.33	-
800	4.24	34.30	27.23	92.7	1.195	.30	-
1000	3.77	34.42	27.37	80.0	1.369	.35	-

STATION 50.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°40'N 128°33'W June 18, 1950 1405 GCT Wire angle: 6°
 Sounding: 2,500 fms. Depth of observation: 1,187 m. Weather: overcast
 Sea: moderate Wind: 310°, force 2

0	14.30	32.92	24.54	340.5	.0000	5.50	-
10	14.34	32.92	24.53	341.6	.0342	5.60	-
20	14.21	32.93	24.57	338.5	.0684	5.83	-
30	13.95	32.97	24.65	330.7	.1020	5.88	-
50	13.60	33.03	24.77	319.9	.1674	5.70	-
75	12.33	32.94	24.95	303.2	.2457	5.94	-
100	9.55	33.10	25.57	244.8	.3146	5.35	-
150	8.23	33.76	26.29	176.9	.421	3.19	-
200	7.77	33.96	26.51	156.2	.505	2.17	-
250	7.26	34.03	26.64	144.7	.580	1.65	-
300	6.65	34.07	26.76	134.2	.651	1.37	-
400	5.89	34.13	26.90	121.2	.779	.69	-
500	5.34	34.19	27.02	111.1	.897	.73	-
600	4.92	34.30	27.15	98.9	1.003	.47	-
700	4.57	34.34	27.22	92.7	1.099	.47	-
800	4.29	34.36	27.27	88.9	1.191	.47	-
1000	3.79	34.44	27.38	78.8	1.361	.64	-

STATION 50.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°20'N 129°16.5'W June 18, 1950 1949 GCT Wire angle: missing
 Sounding: 2,600 fms. Depth of observation: 1,193 m. Weather: partly cloudy
 Sea: slight Wind: 260°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	15.07	32.81	24.29	364.2	.0000	5.81	-
10	13.94	32.84	24.55	339.5	.0353	5.86	-
20	13.75	32.84	24.59	336.1	.0692	5.82	-
30	13.55	32.84	24.63	332.4	.1028	5.83	-
50	13.05	32.88	24.76	320.4	.1684	5.90	-
75	12.45	32.88	24.88	309.8	.2476	5.82	-
100	10.00	33.24	25.60	241.6	.3170	5.05	-
150	7.67	33.52	26.18	186.7	.425	4.39	-
200	7.36	33.86	26.49	157.9	.512	3.00	-
250	6.85	33.94	26.63	145.8	.588	2.88	-
300	6.15	33.96	26.73	135.9	.659	2.69	-
400	5.27	33.96	26.84	126.2	.791	1.55	-
500	5.24	34.06	26.92	119.5	.915	.63	-
600	4.68	34.21	27.11	102.7	1.027	.50	-
700	4.31	34.30	27.22	92.6	1.126	.40	-
800	4.10	34.36	27.29	86.6	1.216	.33	-
1000	3.50	34.43	27.41	76.1	1.381	.40	-

STATION 50.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°00'N 130°00'W June 19, 1950 0143 GCT Wire angle: 6°
 Sounding: 2,700 fms. Depth of observation: 1,190 m. Weather: partly cloudy
 Sea: moderate Wind: 260°, force 2

0	15.87	32.83	24.13	379.5	.0000	5.04	-
10	14.60	32.83	24.41	353.4	.0368	5.96	-
20	14.35	32.82	24.45	349.3	.0721	5.75	-
30	13.92	32.80	24.53	342.6	.1068	5.65	-
50	12.17	32.77	24.85	312.3	.1726	6.00	-
75	10.66	32.72	25.08	290.3	.2484	5.92	-
100	9.70	32.72	25.24	275.3	.3195	5.97	-
150	8.04	33.10	25.80	223.1	.445	5.10	-
200	8.46	33.80	26.28	178.1	.546	2.99	-
250	7.85	33.92	26.47	161.2	.631	2.25	-
300	7.00	33.99	26.65	144.9	.708	1.88	-
400	5.76	34.05	26.85	125.5	.845	1.27	-
500	5.14	34.14	27.00	112.4	.965	.82	-
600	4.66	34.18	27.09	104.7	1.074	.60	-
700	4.25	34.23	27.17	97.1	1.176	.45	-
800	3.90	34.29	27.25	89.5	1.270	.35	-
1000	3.56	34.43	27.40	76.8	1.439	.37	-

STATION 53.54 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°58'N 124°00'W June 16, 1950 1741 GCT Wire angle: 22°
 Sounding: 210 fms. Depth of observation: 302 m. Weather: overcast
 Sea: moderate Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	10.44	33.03	25.36	262.3	.0000	5.88	-
10	9.73	33.03	25.48	251.1	.0258	6.30	-
20	8.65	33.12	25.72	228.2	.0498	5.60	-
30	8.35	33.36	25.96	206.2	.0716	4.60	-
50	8.34	33.61	26.15	187.9	.1112	3.74	-
75	8.53	33.85	26.31	173.3	.1566	4.00	-
100	8.15	33.94	26.44	161.5	.1988	3.00	-
150	7.55	34.09	26.65	142.7	.275	1.76	-
200	7.36	34.09	26.67	140.9	.347	1.54	-
250	7.07	34.13	26.75	134.7	.416	1.28	-
300	6.56	34.16	26.84	126.3	.482	1.06	-

STATION 53.64 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38° 38'N 124°44'W June 16, 1950 1037, 0924 GCT Wire angle:
 2°, 23° Sounding: 2,150 fms. Depth of observation: 25, 1,161 m. Weather:
 overcast Sea: very rough Wind: 320°, force 5

0	11.53	33.26	25.35	263.7	.0000	5.87	-
10	11.52	33.28	25.36	262.3	.0264	5.87	-
20	11.58	33.35	25.41	258.4	.0525	5.81	-
30	11.70	33.35	25.39	260.7	.0786	5.57	-
50	8.77	33.15	25.73	228.3	.1277	5.20	-
75	9.39	33.61	25.99	204.1	.1821	5.55	-
100	8.50	33.80	26.28	177.0	.2300	2.83	-
150	7.84	33.97	26.51	155.7	.314	2.02	-
200	7.61	34.04	26.00	148.1	.390	1.70	-
250	7.12	34.04	26.67	142.0	.463	1.58	-
300	6.15	34.04	26.80	129.9	.532	1.50	-
400	5.56	34.13	26.94	117.1	.656	.69	-
500	5.40	34.24	27.05	108.1	.770	.40	-
600	4.87	34.25	27.12	102.0	.876	.32	-
700	4.57	34.31	27.20	95.0	.975	.33	-
800	4.30	34.38	27.28	87.5	1.067	.33	-
1000	3.60	34.44	27.40	76.5	1.233	.46	-

STATION 57.54 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°24'N 123°35'W June 15, 1950 1825 GCT Wire angle: 6°
 Sounding: 140 fms. Depth of observation: 203 m. Weather: overcast
 Sea: rough Wind: 320°, force 3

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	11.21	33.48	25.58	241.9	.0000	5.90	-
10	11.16	33.48	25.58	241.3	.0243	5.58	-
20	11.16	33.48	25.58	241.5	.0485	5.77	-
30	11.15	33.48	25.59	241.6	.0727	5.74	-
50	9.92	33.55	25.85	216.4	.1188	4.73	-
75	8.86	33.69	26.14	190.0	.1699	3.18	-
100	8.47	33.79	26.27	177.3	.2161	2.86	-
150	7.90	33.95	26.49	158.0	.300	2.61	-
200	7.54	34.00	26.58	150.0	.378	-	-

STATION 57.64 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°04'N 124°19'W June 16, 1950 0047 GCT Wire angle: 12°
 Sounding: 2,130 fms. Depth of observation: 1,238 m. Weather: overcast
 Sea: rough Wind: 320°, force 5

0	11.40	33.55	25.60	240.0	.0000	-	-
10	11.38	33.51	25.57	242.9	.0242	-	-
20	11.34	33.55	25.61	239.4	.0485	-	-
30	11.30	33.56	25.62	238.2	.0724	-	-
50	10.20	33.59	25.84	218.0	.1183	-	-
75	8.88	33.75	26.18	185.9	.1690	-	-
100	8.55	33.91	26.36	169.6	.2138	-	-
150	8.01	34.01	26.52	155.1	.295	-	-
200	7.45	34.04	26.62	145.8	.371	1.99	-
250	6.94	34.05	26.70	138.9	.443	1.56	-
300	6.40	34.07	26.79	130.9	.511	1.26	-
400	5.92	34.12	26.89	122.3	.639	1.16	-
500	5.58	34.24	27.03	110.4	.756	.82	-
600	5.08	34.31	27.14	100.1	.862	.44	-
700	4.69	34.34	27.21	94.2	.960	.37	-
800	4.37	34.37	27.27	89.1	1.053	.34	-
1000	3.73	34.44	27.39	78.1	1.222	.45	-

STATION 60.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°37'N 123°37'W June 15, 1950 0120 GCT Wire angle: 20°
 Sounding: 1,760 fms. Depth of observation: 1,216 m. Weather: cloudy
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (ng/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	13.60	33.28	24.96	300.3	.0000	5.75	-
10	13.57	33.28	24.97	300.0	.0301	5.90	-
20	13.50	33.29	24.99	298.2	.0602	5.79	-
30	9.95	33.35	25.69	231.3	.0867	5.49	-
50	9.30	33.71	26.08	194.8	.1296	3.50	-
75	8.72	33.84	26.28	176.8	.1763	2.75	-
100	8.42	33.88	26.35	169.9	.2199	2.37	-
150	7.87	34.04	26.56	150.9	.301	1.81	-
200	7.50	34.11	26.67	141.3	.374	1.59	-
250	7.05	34.12	26.74	135.1	.444	1.44	-
300	6.50	34.11	26.81	129.3	.510	1.21	-
400	5.75	34.14	26.93	118.7	.635	.71	-
500	5.28	34.21	27.04	108.9	.750	.42	-
600	4.97	34.28	27.13	101.0	.856	.33	-
700	4.70	34.35	27.22	93.6	.954	.33	-
800	4.47	34.42	27.30	86.6	1.045	.33	-
1000	3.89	34.49	27.41	76.3	1.210	.42	-

STATION 60.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°17'N 124°21'W June 14, 1950 1850 GCT Wire angle: 2°
 Sounding: 2,225 fms. Depth of observation: 1,185 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

0	12.97	33.08	24.93	303.0	.0000	5.80	-
10	12.98	33.01	24.88	308.6	.0307	5.81	-
20	12.96	33.03	24.90	307.0	.0616	5.89	-
30	10.70	33.07	25.35	264.2	.0903	5.90	-
50	10.56	33.40	25.63	237.9	.1407	5.78	-
75	9.05	33.46	25.93	219.0	.1970	4.12	-
100	8.55	33.72	26.21	183.6	.2466	3.54	-
150	8.00	33.93	26.46	160.9	.333	2.71	-
200	7.50	34.04	26.61	146.5	.411	2.11	-
250	6.90	34.04	26.70	139.1	.483	1.79	-
300	6.25	34.04	26.78	131.2	.551	1.52	-
400	5.62	34.20	26.99	112.6	.674	.70	-
500	5.02	34.20	27.06	106.5	.784	.42	-
600	4.75	34.32	27.19	95.4	.886	.33	-
700	4.45	34.37	27.26	89.1	.979	.34	-
800	4.10	34.40	27.32	83.7	1.066	.35	-
1000	3.61	34.53	27.47	70.0	1.222	.54	-

STATION 60.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°57'N 125°04'W June 14, 1950 1146 GCT Wire angle: 25°
 Sounding: 2,400 fms. Depth of observation: 1,128 m. Weather: partly cloudy
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	12.30	32.92	24.94	302.4	.0000	6.07	-
10	12.24	32.94	24.97	300.1	.0302	6.14	-
20	12.17	32.92	24.96	300.5	.0604	6.21	-
30	12.10	32.92	24.98	299.5	.0905	6.17	-
50	9.42	33.21	25.67	233.7	.1441	5.49	-
75	8.47	33.54	26.08	195.4	.1980	4.36	-
100	8.53	33.80	26.27	177.4	.2449	3.55	-
150	7.79	33.98	26.53	154.2	.328	2.51	-
200	7.40	34.05	26.64	144.4	.404	1.95	-
250	7.00	34.08	26.72	137.4	.475	1.47	-
300	6.51	34.09	26.79	130.9	.542	1.14	-
400	5.20	34.15	27.00	111.2	.664	.87	-
500	4.94	34.24	27.10	102.5	.772	.35	-
600	4.61	34.35	27.23	91.5	.870	.30	-
700	4.35	34.41	27.30	84.9	.959	.31	-
800	4.13	34.45	27.36	80.3	1.042	.35	-
1000	3.66	34.50	27.44	72.8	1.197	.38	-

STATION 60.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°37'N 125°47'W June 14, 1950 0323 GCT Wire angle: 20°
 Sounding: 2,480 fms. Depth of observation: 1,103 m. Weather: overcast
 Sea: rough Wind: 340°, force 4

0	13.42	32.86	24.67	327.7	.0000	5.75	-
10	13.42	32.86	24.67	327.9	.0329	5.84	-
20	13.15	32.83	24.70	325.3	.0657	5.98	-
30	12.85	32.83	24.76	319.9	.0981	6.11	-
50	12.12	32.83	24.90	306.9	.1611	6.21	-
75	11.55	32.87	25.04	294.4	.2367	5.93	-
100	10.37	32.91	25.28	272.0	.3079	6.04	-
150	9.08	33.39	25.87	217.0	.431	4.55	-
200	8.52	33.79	26.27	179.8	.531	3.01	-
250	8.00	34.00	26.51	157.4	.616	2.24	-
300	7.34	34.07	26.66	143.6	.692	1.81	-
400	6.37	34.11	26.82	123.9	.829	1.12	-
500	5.62	34.20	26.99	113.8	.951	.59	-
600	5.05	34.26	27.10	103.5	1.061	.31	-
700	4.58	34.32	27.21	94.3	1.161	.27	-
800	4.27	34.39	27.29	86.4	1.252	.27	-
1000	3.85	34.49	27.42	75.8	1.416	.38	-

STATION 60.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°17'N 126°30'W June 13, 1950 2003 GCT Wire angle: 35°
 Sounding: 2,540 fms. Depth of observation: 952 m. Weather: overcast
 Sea: rough Wind: 350°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \sigma$	ΔD (dyn.n.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	14.26	32.97	24.59	336.0	.0000	5.81	-
10	14.27	32.97	24.58	336.5	.0338	5.84	-
20	14.27	32.95	24.57	338.2	.0676	5.81	-
30	14.33	33.01	24.60	335.3	.1014	5.76	-
50	13.00	33.04	24.90	307.7	.1661	5.80	-
75	12.45	32.86	24.86	311.3	.2439	5.90	-
100	9.80	32.87	25.34	265.7	.3165	5.68	-
150	8.87	33.25	25.79	224.1	.440	4.96	-
200	8.26	33.78	26.30	176.7	.541	4.00	-
250	7.52	33.92	26.52	156.5	.625	3.40	-
300	6.87	33.96	26.64	145.3	.701	3.14	-
400	5.64	34.02	26.85	126.3	.837	2.17	-
500	4.87	34.03	26.94	117.3	.960	1.21	-
600	4.48	34.14	27.07	105.5	1.073	.76	-
700	4.36	34.29	27.21	94.0	1.173	.39	-
800	4.25	34.40	27.30	85.4	1.264	.34	-
1000	(3.67)	(34.46)	(27.41)	(75.9)	(1.427)	(.39)	-

STATION 60.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°57'N 127°12'W June 13, 1950 1244 GCT Wire angle: 11°
 Sounding: 2,630 fms. Depth of observation: 1,241 m. Weather: overcast
 Sea: rough Wind: 350°, force 5

0	14.77	33.01	24.51	343.4	.0000	5.51	-
10	14.80	33.04	24.53	342.1	.0344	5.41	-
20	14.76	33.03	24.53	342.3	.0688	5.51	-
30	14.32	33.00	24.60	335.8	.1028	5.61	-
50	13.50	32.96	24.74	323.1	.1690	5.71	-
75	12.05	32.81	24.90	307.7	.2483	5.84	-
100	10.85	32.90	25.19	280.7	.3224	5.69	-
150	9.06	33.17	25.70	232.9	.452	4.87	-
200	8.60	33.60	26.11	195.0	.559	4.54	-
250	8.18	33.93	26.43	165.2	.650	4.11	-
300	7.27	33.97	26.59	150.1	.730	3.45	-
400	5.83	33.98	26.79	131.6	.872	1.94	-
500	5.10	34.10	26.97	114.8	.996	1.02	-
600	4.65	34.14	27.05	107.5	1.108	.61	-
700	4.30	34.19	27.13	100.7	1.213	.50	-
800	4.10	34.31	27.25	90.3	1.310	.36	-
1000	3.63	34.42	27.38	78.4	1.480	.43	-

STATION 60.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°37'N 127°54.5'W June 13, 1950 0511 GCT Wire angle: 12°
 Sounding: 2,600 fms. Depth of observation: 1,169 m. Weather: overcast
 Sea: moderate Wind: 020°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (ng/cm^3)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.80	32.90	24.42	352.0	.0000	5.60	-
10	14.80	32.90	24.42	352.3	.0354	5.32	-
20	14.77	32.85	24.39	355.6	.0709	5.50	-
30	13.90	32.84	24.56	339.2	.1058	5.71	-
50	13.40	32.83	24.66	330.8	.1731	5.83	-
75	11.59	32.81	24.99	299.6	.2523	5.83	-
100	10.45	32.81	25.19	280.7	.3253	5.59	-
150	8.35	33.17	25.81	222.4	.452	4.85	-
200	7.85	33.68	26.28	178.2	.553	3.64	-
250	7.32	33.87	26.51	157.4	.637	3.06	-
300	6.67	33.96	26.67	142.6	.713	2.64	-
400	5.66	34.00	26.83	128.0	.849	1.51	-
500	5.07	34.09	26.97	115.2	.972	.86	-
600	4.52	34.22	27.13	100.1	1.081	.33	-
700	4.20	34.29	27.22	92.1	1.178	.30	-
800	4.00	34.32	27.27	88.4	1.269	.32	-
1000	3.53	34.42	27.39	77.2	1.436	.35	-

STATION 60.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°17'N 128°37'W June 12, 1950 2120 GCT Wire angle: 17°
 Sounding: 2,580 fms. Depth of observation: 1,099 m. Weather: overcast
 Sea: moderate Wind: 340°, force 3

0	15.61	33.11	24.40	353.5	.0000	5.58	-
10	15.63	33.10	24.39	354.9	.0356	5.36	-
20	15.56	33.13	24.43	351.5	.0710	5.40	-
30	15.43	33.13	24.46	349.1	.1062	5.57	-
50	15.32	33.16	24.51	345.1	.1760	6.06	-
75	14.66	33.27	24.73	324.1	.2601	5.30	-
100	13.62	33.33	25.00	299.6	.3386	4.56	-
150	10.70	33.25	25.49	253.4	.478	5.09	-
200	9.10	33.56	26.00	205.6	.593	4.76	-
250	8.17	33.81	26.34	174.0	.689	4.54	-
300	7.36	33.91	26.53	155.8	.772	4.12	-
400	5.94	33.97	26.77	133.7	.918	2.06	-
500	5.10	34.01	26.90	121.5	1.047	1.20	-
600	4.64	34.12	27.04	108.9	1.163	.54	-
700	4.29	34.20	27.14	99.8	1.268	.35	-
800	4.07	34.27	27.22	93.0	1.366	.35	-
1000	3.64	34.40	27.37	80.0	1.541	.35	-

STATION 61.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°37'N 123°07.5'W June 15, 1950 0650 GCT Wire angle: 40°
 Sounding: 540 fms. Depth of observation: 632 m. Weather: overcast
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	12.81	33.26	25.10	286.8	.0000	6.00	-
10	12.82	33.27	25.11	286.5	.0288	6.09	-
20	12.80	33.33	25.16	281.9	.0573	6.09	-
30	12.42	33.32	25.23	275.9	.0853	6.09	-
50	11.63	33.33	25.38	261.4	.1393	5.94	-
75	9.18	33.58	26.00	203.1	.1977	4.17	-
100	8.61	33.78	26.25	180.1	.2459	3.11	-
150	8.08	33.90	26.42	164.3	.333	3.01	-
200	7.64	34.02	26.58	150.0	.412	2.35	-
250	7.38	34.08	26.66	142.7	.485	1.63	-
300	7.16	34.12	26.73	137.4	.556	1.24	-
400	6.40	34.15	26.85	126.4	.689	.97	-
500	5.70	34.19	26.97	115.6	.811	.51	-
600	5.28	34.29	27.10	104.1	.922	.39	-

STATION 63.57 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°09'N 122°58'W June 6, 1950 0335 GCT Wire angle: 15°
 Sounding: 320 fms. Depth of observation: 382 m. Weather: partly cloudy
 Sea: very rough Wind: 320°, force 6

0	13.05	33.15	24.97	299.4	.0000	-	-
10	13.05	33.15	24.97	299.6	.0301	-	-
20	12.30	33.36	25.28	270.5	.0587	-	-
30	11.75	33.38	25.40	259.4	.0853	-	-
50	10.08	33.39	25.70	230.8	.1345	-	-
75	9.10	33.53	25.97	205.5	.1894	-	-
100	8.87	33.75	26.18	186.2	.2387	-	-
150	8.02	33.90	26.43	163.4	.327	-	-
200	7.88	34.07	26.58	149.7	.406	-	-
250	7.46	34.14	26.70	139.3	.478	-	-
300	7.03	34.14	26.76	134.1	.547	-	-

STATION 63.67 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°49'N 123°41'W June 6, 1950 2034 GCT Wire angle: 22°
 Sounding: 2,040 fms. Depth of observation: 1,244 m. Weather: partly cloudy
 Sea: high Wind: 320°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	12.01	33.12	25.15	282.5	.0000	6.94	-
10	12.04	33.08	25.11	286.2	.0285	6.22	-
20	11.92	33.09	25.14	283.5	.0571	6.10	-
30	11.65	33.12	25.22	276.8	.0853	6.00	-
50	9.54	33.21	25.65	235.6	.1368	5.56	-
75	9.30	33.43	25.86	216.0	.1935	4.70	-
100	8.53	33.71	26.20	184.1	.2439	3.94	-
150	7.87	33.94	26.48	158.3	.330	2.60	-
200	7.32	34.00	26.61	147.0	.407	2.19	-
250	6.80	34.02	26.70	139.2	.479	1.83	-
300	6.29	34.06	26.79	130.2	.547	1.33	-
400	5.66	34.16	26.95	116.1	.671	.75	-
500	5.47	34.24	27.04	109.0	.785	.39	-
600	4.87	34.30	27.16	98.3	.889	.34	-
700	4.50	34.36	27.25	90.4	.984	.35	-
800	4.23	34.41	27.31	84.5	1.073	.32	-
1000	3.70	34.48	27.43	74.8	1.234	.72	-

STATION 67.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°39'N 122°26'W June 7, 1950 1708 GCT Wire angle: 5°
 Sounding: 1,140 fms. Depth of observation: 1,328 m. Weather: partly cloudy
 Sea: very rough Wind: 320°, force 4

0	12.40	33.14	25.09	288.0	.0000	6.28	-
10	12.30	33.16	25.13	285.0	.0288	5.96	-
20	12.31	33.17	25.13	284.7	.0574	5.59	-
30	12.31	33.17	25.13	284.9	.0860	5.24	-
50	11.00	33.41	25.56	244.6	.1392	4.60	-
75	10.01	33.53	25.82	219.8	.1975	3.95	-
100	9.41	33.62	25.99	204.1	.2509	3.45	-
150	8.48	33.95	26.40	166.5	.344	2.65	-
200	7.81	34.05	26.58	150.1	.424	1.95	-
250	7.28	34.11	26.70	139.1	.497	1.52	-
300	6.68	34.15	26.81	128.7	.564	1.27	-
400	5.88	34.21	26.97	115.2	.687	.91	-
500	5.45	34.25	27.05	108.0	.800	.58	-
600	4.94	34.25	27.16	98.4	.904	.41	-
700	4.70	34.31	27.26	89.1	.998	.34	-
800	4.45	34.41	27.39	77.5	1.083	.34	-
1000	3.89	34.54	27.50	68.2	1.230	.51	-

STATION 67.65 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°19'N 123°09'W June 7, 1950 0320 GCT Wire angle: 26°
 Sounding: 1,790 fms. Depth of observation: 1,177 m. Weather: partly cloudy
 Sea: high Wind: 320°, force 6

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	12.14	33.40	25.34	264.2	.0000	5.71	-
10	12.13	33.37	25.32	266.5	.0266	5.15	-
20	12.11	33.37	25.32	266.3	.0534	5.27	-
30	12.06	33.37	25.33	265.7	.0801	5.29	-
50	9.50	33.44	25.84	217.9	.1287	4.55	-
75	8.70	33.76	26.22	182.5	.1790	3.28	-
100	8.10	33.89	26.41	164.5	.2227	2.84	-
150	7.66	33.96	26.53	153.9	.303	2.63	-
200	7.21	34.02	26.64	144.0	.378	2.09	-
250	6.80	34.07	26.74	135.5	.448	1.54	-
300	6.54	34.11	26.80	129.8	.515	1.09	-
400	5.98	34.22	26.96	115.7	.639	.51	-
500	5.46	34.30	27.09	104.4	.750	.47	-
600	4.93	34.32	27.17	97.5	.852	.37	-
700	4.52	34.44	27.31	84.7	.944	.32	-
800	4.20	34.51	27.40	76.7	1.025	.32	-
1000	3.76	34.45	27.40	77.7	1.181	.45	-

STATION 70.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°03'N 122°02'W June 9, 1950 1857 GCT Wire angle: 37°
 Sounding: 740 fms. Depth of observation: 942 m. Weather: haze
 Sea: rough Wind: 320°, force 4

0	11.69	33.55	25.54	245.1	.0000	5.98	-
10	11.61	33.50	25.52	247.6	.0247	5.60	-
20	11.30	33.49	25.57	243.2	.0494	5.76	-
30	11.19	33.51	25.60	240.0	.0736	5.70	-
50	10.96	33.56	25.68	232.8	.1212	5.25	-
75	10.12	33.65	25.90	212.7	.1772	4.70	-
100	9.55	33.78	26.10	194.5	.2284	4.06	-
150	8.72	33.91	26.33	173.0	.321	2.62	-
200	7.66	34.01	26.57	151.0	.402	2.10	-
250	7.21	34.09	26.69	139.6	.476	1.78	-
300	6.90	34.14	26.78	132.4	.544	1.19	-
400	6.25	34.21	26.92	119.9	.671	.86	-
500	5.79	34.22	26.98	114.5	.790	.45	-
600	5.25	34.31	27.12	102.2	.899	.33	-
700	4.88	34.38	27.22	93.6	.998	.30	-
800	4.60	34.44	27.30	86.7	1.089	.30	-
1000	(3.88)	(34.48)	(27.41)	(76.9)	(1.254)	-	-

STATION 70.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°53'N 122°23'W June 9, 1950 2340 GCT Wire angle: 18°
 Sounding: 1,730 fms. Depth of observation: 1,127 m. Weather: cloudy
 Sea: moderate Wind: 300°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ ^{-P} (µg at/L)
0	13.58	33.22	24.92	304.3	.0000	5.85	-
10	13.22	33.17	24.95	301.4	.0304	6.05	-
20	13.12	33.19	24.99	298.2	.0605	5.97	-
30	13.09	33.25	25.04	293.5	.0902	5.81	-
50	10.70	33.40	25.60	240.3	.1439	5.33	-
75	9.65	33.70	26.02	201.5	.1994	3.60	-
100	9.12	33.76	26.15	189.3	.2485	2.92	-
150	8.37	33.91	26.38	167.8	.338	2.34	-
200	7.85	34.01	26.54	153.7	.419	2.16	-
250	7.20	34.02	26.64	144.6	.494	1.88	-
300	6.70	34.03	26.72	137.8	.566	1.41	-
400	6.21	34.19	26.91	120.9	.696	.65	-
500	5.70	34.25	27.02	111.2	.813	.41	-
600	5.43	34.36	27.14	100.8	.920	.33	-
700	4.92	34.47	27.29	87.4	1.015	.32	-
800	4.50	34.49	27.35	81.8	1.100	.34	-
1000	3.88	34.48	27.41	76.9	1.261	.47	-

STATION 70.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°33'N 123°06'W June 10, 1950 0658 GCT Wire angle: 10°
 Sounding: 2,080 fms. Depth of observation: 1,165 m. Weather: overcast
 Sea: slight Wind: 260°, force 1

0	13.95	33.28	24.89	307.2	.0000	5.83	-
10	13.61	33.33	25.00	297.1	.0303	5.98	-
20	13.16	33.34	25.10	288.0	.0597	5.90	-
30	12.95	33.36	25.15	282.8	.0884	5.67	-
50	10.16	33.77	25.99	204.0	.1373	5.36	-
75	9.05	33.78	26.18	186.2	.1863	2.86	-
100	8.83	33.88	26.29	176.0	.2319	2.60	-
150	8.24	33.98	26.46	160.7	.317	2.19	-
200	7.76	34.07	26.60	147.9	.394	1.76	-
250	7.24	34.10	26.70	139.2	.467	1.46	-
300	6.65	34.11	26.79	131.2	.535	1.29	-
400	6.04	34.14	26.89	122.4	.663	.79	-
500	5.75	34.31	27.06	107.4	.779	.34	-
600	5.27	34.37	27.17	98.0	.882	.28	-
700	4.79	34.41	27.25	90.2	.977	.28	-
800	4.39	34.42	27.31	85.6	1.066	.30	-
1000	3.83	34.46	27.40	77.8	1.231	.40	-

STATION 70.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°13'N 123°48'W June 10, 1950 1339 GCT Wire angle: 0°
 Sounding: 2,240 fms. Depth of observation: 1,191 m. Weather: overcast
 Sea: rough Wind: 280°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	13.85	33.24	24.88	308.1	.0000	5.91	-
10	13.33	33.24	24.99	298.3	.0304	6.15	-
20	12.74	33.24	25.10	287.4	.0598	6.14	-
30	12.18	33.25	25.22	276.7	.0882	5.99	-
50	10.03	33.41	25.73	228.5	.1389	5.44	-
75	9.12	33.55	25.99	204.4	.1933	4.95	-
100	8.64	33.63	26.12	191.7	.2432	4.20	-
150	8.45	33.92	26.38	168.2	.334	2.06	-
200	8.08	34.02	26.51	156.3	.415	1.74	-
250	7.24	34.02	26.64	145.2	.491	1.67	-
300	6.41	34.02	26.75	134.8	.562	1.65	-
400	5.66	34.11	26.91	119.8	.690	.89	-
500	5.30	34.23	27.05	107.6	.805	.39	-
600	5.02	34.30	27.14	100.1	.910	.32	-
700	4.70	34.36	27.22	92.8	1.007	.31	-
800	4.31	34.43	27.32	83.9	1.096	.30	-
1000	3.75	34.49	27.43	74.6	1.257	.48	-

STATION 70.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°53'N 124°30'W June 10, 1950 1945 GCT Wire angle: 9°
 Sounding: 2,340 fms. Depth of observation: 1,165 m. Weather: cloudy
 Sea: moderate Wind: 250°, force 1

0	13.85	33.01	24.70	325.0	.0000	4.90	-
10	12.30	32.99	24.99	297.5	.0312	5.56	-
20	12.01	32.99	25.05	292.5	.0609	5.85	-
30	11.37	33.00	25.17	280.7	.0896	5.86	-
50	11.16	33.24	25.40	259.9	.1440	5.30	-
75	9.00	33.17	25.71	230.7	.2056	4.89	-
100	8.73	33.45	25.97	206.3	.2606	3.85	-
150	8.18	33.81	26.33	172.4	.356	3.06	-
200	7.85	33.98	26.52	155.9	.439	2.04	-
250	7.45	34.08	26.65	143.6	.514	1.55	-
300	6.99	34.13	26.76	134.3	.584	1.34	-
400	5.75	34.09	26.89	122.4	.713	1.05	-
500	5.24	34.19	27.03	109.9	.831	.54	-
600	4.85	34.27	27.14	100.3	.937	.30	-
700	4.52	34.35	27.24	91.4	1.033	.30	-
800	4.24	34.43	27.33	83.1	1.122	.30	-
1000	3.66	34.46	27.41	75.8	1.282	.45	-

STATION 70.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°33'N 125°12'W June 11, 1950 0304 GCT Wire angle: 28°
 Sounding: 2,520 fms. Depth of observation: 1,025 m. Weather: partly cloudy
 Sea: moderate Wind: 250°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	15.09	32.97	24.41	352.9	.0000	5.39	-
10	14.75	33.03	24.53	341.8	.0349	5.39	-
20	14.65	32.95	24.49	345.9	.0694	5.62	-
30	13.95	32.95	24.64	332.1	.1034	5.58	-
50	13.89	32.98	24.67	329.3	.1699	5.38	-
75	12.66	33.00	24.93	304.9	.2496	5.60	-
100	11.82	32.99	25.08	290.9	.3246	5.59	-
150	10.40	33.26	25.55	247.7	.460	4.33	-
200	8.78	33.72	26.17	188.9	.570	3.01	-
250	8.14	33.94	26.44	163.9	.659	2.49	-
300	7.57	34.02	26.59	150.6	.738	2.05	-
400	6.67	34.11	26.78	132.9	.881	1.05	-
500	6.40	34.27	26.95	118.9	1.008	.40	-
600	5.80	34.33	27.07	107.8	1.122	.38	-
700	5.18	34.35	27.16	99.5	1.227	.35	-
800	4.75	34.37	27.23	93.7	1.325	.30	-
1000	3.99	34.42	27.35	82.6	1.503	.35	-

STATION 70.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°13'N 125°54'W June 11, 1950 1113 GCT Wire angle: 15°
 Sounding: 2,220 fms. Depth of observation: 1,321 Weather: clear
 Sea: rough Wind: 260°, force 3

0	14.78	32.99	24.49	345.0	.0000	5.63	-
10	14.82	32.96	24.46	348.3	.0348	5.56	-
20	13.27	32.97	24.79	317.3	.0682	5.65	-
30	12.87	32.97	24.87	310.0	.0997	5.84	-
50	12.57	32.93	24.90	307.8	.1618	5.96	-
75	12.23	32.94	24.97	301.4	.2384	5.95	-
100	11.60	33.03	25.16	284.1	.3120	5.74	-
150	9.13	33.56	25.99	205.2	.435	4.36	-
200	8.27	33.88	26.38	169.4	.529	3.00	-
250	7.76	33.99	26.54	154.7	.611	2.44	-
300	7.07	34.01	26.65	144.3	.686	1.89	-
400	6.00	34.07	26.84	127.1	.823	1.05	-
500	5.46	34.21	27.02	111.1	.943	.48	-
600	5.12	34.30	27.13	101.4	1.051	.33	-
700	4.93	34.36	27.20	95.7	1.150	.30	-
800	4.62	34.45	27.30	86.2	1.242	.32	-
1000	3.94	34.47	27.39	78.4	1.408	.46	-

STATION 70.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°53'N 126°35.5'W June 11, 1950 1858 GCT Wire angle: 10°
 Sounding: 2,560 fms. Depth of observation; 1,173 m. Weather: partly cloudy
 Sea: rough Wind: 290°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \sigma$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	15.42	33.22	24.53	341.5	.0000	5.64	-
10	15.21	33.22	24.58	337.3	.0341	5.49	-
20	15.06	33.22	24.61	334.5	.0678	5.19	-
30	14.93	33.22	24.64	332.1	.1013	5.13	-
50	14.66	33.26	24.73	324.2	.1672	5.09	-
75	12.57	33.26	25.15	284.1	.2437	4.83	-
100	10.45	33.45	25.69	233.4	.3088	4.23	-
150	8.64	33.75	26.22	183.7	.414	2.89	-
200	7.94	33.96	26.49	158.7	.500	2.50	-
250	7.39	34.03	26.62	146.5	.577	2.03	-
300	6.88	34.05	26.71	138.8	.649	1.55	-
400	5.82	34.10	26.89	122.6	.780	1.04	-
500	5.17	34.15	27.00	112.0	.899	.55	-
600	4.66	34.24	27.13	100.2	1.006	.33	-
700	4.30	34.32	27.24	91.0	1.102	.30	-
800	4.02	34.39	27.32	83.5	1.190	.30	-
1000	3.56	34.44	27.41	76.1	1.352	.43	-

STATION 70.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°33'N 127°16.5'W June 12, 1950 0240 GCT Wire angle: 20°
 Sounding: 2,420 fms. Depth of observation: 1,122 m. Weather: cloudy
 Sea: rough Wind: 320°, force 3

0	15.40	33.06	24.41	352.7	.0000	5.54	-
10	15.40	33.04	24.40	354.5	.0355	5.41	-
20	15.30	33.12	24.48	346.8	.0707	5.45	-
30	15.08	33.13	24.53	341.8	.1053	5.52	-
50	14.85	33.11	24.57	339.1	.1737	5.52	-
75	13.50	33.03	24.79	318.6	.2564	5.57	-
100	13.81	33.26	24.90	308.5	.3353	6.11	-
150	10.30	33.25	25.56	246.7	.475	4.80	-
200	8.85	33.69	26.14	192.2	.586	3.69	-
250	7.94	33.88	26.42	165.4	.676	3.30	-
300	7.35	33.97	26.58	151.2	.755	2.91	-
400	6.41	34.05	26.77	133.9	.899	1.41	-
500	5.48	34.11	26.94	118.8	1.026	.91	-
600	5.00	34.18	27.05	108.8	1.141	.40	-
700	4.50	34.26	27.17	97.8	1.246	.30	-
800	4.10	34.34	27.27	88.1	1.339	.28	-
1000	3.75	34.44	27.39	78.3	1.508	.40	-

STATION 73.51 (Interpolated Values at Standard Depths)

CREST: 35°35'N 121°20'W June 8, 1950 1610 GCT Wire angle: 31°
 Sounding: 170 fms. Depth of observation: 260 m. Weather: clear
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	11.46	33.44	25.50	249.2	.0000	5.87	-
10	11.41	33.40	25.48	251.5	.0251	6.20	-
20	10.37	33.35	25.62	237.9	.0497	5.25	-
30	9.88	33.36	25.71	229.4	.0732	4.65	-
50	9.26	33.67	26.06	197.1	.1160	3.85	-
75	8.80	33.86	26.28	176.5	.1630	2.82	-
100	8.50	33.92	26.37	168.1	.2063	2.38	-
150	8.15	34.00	26.49	157.9	.288	2.06	-
200	7.93	34.11	26.61	147.4	.365	1.33	-
250	7.61	34.17	26.70	139.2	.437	-	-

STATION 73.61 (Interpolated Values at Standard Depths)

CREST: 35°15'N 122°03'W June 8, 1950 2034 GCT Wire angle: 25°
 Sounding: 1,700 fms. Depth of observation: 1185 Weather: clear
 Sea: rough Wind: 340°, force 5

0	12.97	33.04	24.90	305.9	.0000	6.65	-
10	12.98	33.04	24.90	306.4	.0307	6.18	-
20	12.91	33.04	24.91	305.3	.0614	5.98	-
30	12.90	33.04	24.92	305.4	.0921	5.83	-
50	11.35	33.10	25.26	273.5	.1503	5.61	-
75	10.52	33.46	25.68	233.3	.2140	5.27	-
100	9.60	33.59	25.94	209.3	.2697	3.95	-
150	8.93	33.84	26.24	181.4	.368	2.93	-
200	8.37	33.97	26.43	164.2	.455	2.21	-
250	7.90	34.05	26.56	152.3	.535	1.86	-
300	7.52	34.12	26.67	142.5	.609	1.66	-
400	6.79	34.18	26.82	129.4	.746	.95	-
500	6.08	34.18	26.92	121.3	.872	.80	-
600	5.19	34.21	27.05	108.9	.988	.64	-
700	4.79	34.27	27.14	100.6	1.094	.41	-
800	4.58	34.33	27.21	94.6	1.193	.35	-
1000	3.93	34.36	27.31	86.4	1.376	.74	-

STATION 77.55 (Interpolated Values at Standard Depths)

CREST: 34°54'N 121°13'W June 9, 1950 0755 GCT Wire angle: 8°
 Sounding: 310 fms. Depth of observation: 498 m. Weather: clear
 Sea: very rough Wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	11.48	33.66	25.67	233.3	.0000	6.26	-
10	11.52	33.62	25.63	237.2	.0236	6.30	-
20	11.44	33.63	25.65	235.3	.0473	5.50	-
30	11.15	33.64	25.71	229.8	.0707	4.97	-
50	9.29	33.64	26.03	199.8	.1139	4.22	-
75	9.39	33.82	26.15	188.5	.1627	2.90	-
100	8.76	33.87	26.29	175.7	.2085	2.63	-
150	7.88	33.96	26.50	157.0	.292	2.28	-
200	7.47	34.04	26.62	146.1	.369	1.67	-
250	7.20	34.11	26.71	137.9	.440	1.26	-
300	6.78	34.13	26.79	131.5	.508	(.87)	-
400	6.35	34.22	26.91	120.5	.635	-	-
500	(6.00)	(34.20)	(26.94)	(118.7)	(.756)	-	-

STATION 77.65 (Interpolated Values at Standard Depths)

CREST: 34°34'N 121°55'W June 9, 1950 0157 GCT Wire angle: 38°
 Sounding: 2,100 fms. Depth of observation: 1066 m. Weather: clear
 Sea: rough Wind: 340°, force 6

0	12.82	33.15	25.02	295.1	.0000	6.33	-
10	12.82	33.13	25.00	296.8	.0297	6.25	-
20	12.74	33.13	25.02	295.5	.0594	6.30	-
30	12.68	33.14	25.04	293.9	.0890	6.30	-
50	10.90	33.45	25.61	239.9	.1427	6.00	-
75	9.80	33.48	25.82	220.1	.2005	4.70	-
100	8.73	33.55	26.05	198.9	.2532	3.50	-
150	8.39	33.87	26.35	171.1	.346	2.78	-
200	7.73	33.99	26.54	153.5	.428	2.56	-
250	7.22	34.02	26.64	144.9	.503	2.28	-
300	6.78	34.04	26.71	138.2	.574	1.83	-
400	6.03	34.11	26.87	124.5	.707	1.16	-
500	5.47	34.19	27.00	112.7	.827	.67	-
600	5.08	34.27	27.11	103.1	.935	.45	-
700	4.76	34.32	27.19	96.5	1.036	.44	-
800	4.50	34.33	27.22	93.6	1.132	.46	-
1000	3.95	34.42	27.35	82.2	1.310	.67	-

STATION 80.55 (Interpolated Values at Standard Depths)

CREST: 34°19'N 120°48'W June 9, 1950 1418 GCT Wire angle: 33°
 Sounding: 450 fms. Depth of observation: 591 m. Weather: partly cloudy
 Sea: rough Wind: 340°, force 6

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	11.51	33.42	25.47	251.5	.0000	4.95	-
10	11.50	33.49	25.53	246.4	.0250	4.66	-
20	11.48	33.49	25.53	246.3	.0497	5.08	-
30	11.46	33.47	25.52	247.7	.0745	4.72	-
50	10.25	33.35	25.64	236.5	.1232	3.22	-
75	9.75	33.80	26.08	195.7	.1775	2.77	-
100	9.09	33.82	26.20	184.4	.2253	2.52	-
150	8.55	34.00	26.43	163.8	.313	1.74	-
200	8.35	34.07	26.51	156.5	.394	1.06	-
250	8.17	34.11	26.57	151.8	.471	.81	-
300	7.74	34.17	26.68	141.9	.545	.60	-
400	7.11	34.18	26.78	133.8	.684	-	-
500	6.62	34.23	26.89	124.8	.815	-	-
600	(5.98)	(34.25)	(26.98)	(116.1)	(.936)	-	-

STATION 80.60 (Interpolated Values at Standard Depths)

CREST: 34°09'N 121°09'W June 9, 1950 1802 GCT Wire angle: 37°
 Sounding: 1,400 fms. Depth of observation: 976 m. Weather: cloudy
 Sea: very rough Wind: 320°, force 6

0	13.49	33.15	24.88	307.7	.0000	5.65	-
10	13.50	33.14	24.87	308.9	.0310	5.93	-
20	13.46	33.13	24.87	309.1	.0620	5.73	-
30	13.45	33.13	24.88	309.2	.0930	5.72	-
50	12.55	33.32	25.20	278.8	.1521	5.68	-
75	12.10	33.34	25.30	269.6	.2210	5.44	-
100	9.72	33.33	25.72	230.5	.2840	4.70	-
150	8.88	33.73	26.16	188.8	.389	3.53	-
200	8.17	33.88	26.39	167.9	.479	3.00	-
250	7.38	33.97	26.58	150.8	.560	2.35	-
300	6.89	34.00	26.67	142.6	.633	1.87	-
400	5.93	34.18	26.94	118.0	.765	1.00	-
500	5.43	34.27	27.07	106.3	.878	.61	-
600	5.05	34.33	27.16	98.3	.981	.45	-
700	4.74	34.37	27.23	92.6	1.077	.45	-
800	4.47	34.40	27.28	88.1	1.169	.49	-
1000	(3.93)	(34.42)	(27.35)	(81.9)	(1.341)	(.79)	-

STATION 80.70 (Interpolated Values at Standard Depths)

CREST: 33°49'N 121°58'W June 9, 1950 2348 GCT Wire angle: 22°
 Sounding: 2,150 fms. Depth of observation: 1220 m. Weather: partly cloudy
 Sea: moderate Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.11	33.13	24.74	321.3	.0000	6.18	-
10	14.10	33.13	24.74	321.4	.0323	5.84	-
20	13.97	33.13	24.77	319.1	.0644	6.00	-
30	13.92	33.13	24.78	318.4	.0964	6.25	-
50	12.25	33.24	25.20	279.1	.1565	5.85	-
75	11.40	33.40	25.48	252.8	.2233	5.16	-
100	10.00	33.51	25.81	221.6	.2830	4.42	-
150	8.77	33.82	26.25	180.4	.384	2.72	-
200	7.91	33.96	26.49	158.3	.469	2.50	-
250	7.26	34.01	26.62	146.2	.546	2.24	-
300	6.52	34.03	26.74	135.5	.617	1.91	-
400	5.63	34.06	26.88	123.2	.747	1.34	-
500	5.35	34.17	27.00	112.7	.866	.65	-
600	5.04	34.25	27.10	104.1	.976	.62	-
700	4.66	34.30	27.18	96.8	1.077	.65	-
800	4.37	34.35	27.25	90.6	1.172	.65	-
1000	3.86	34.42	27.36	81.1	1.345	.72	-

STATION 80.80 (Interpolated Values at Standard Depths)

CREST: 33°31'N 122°33'W June 10, 1950 0534 GCT Wire angle: 20°
 Sounding: 2,200 fms. Depth of observation: 1218 m. Weather: cloudy
 Sea: rough Wind: 270°, force 3

0	13.49	33.28	24.98	298.2	.0000	5.63	-
10	13.40	33.26	24.99	298.2	.0299	5.85	-
20	13.13	33.27	25.05	292.6	.0596	5.84	-
30	13.10	33.29	25.07	290.8	.0889	5.78	-
50	12.07	33.30	25.28	271.5	.1454	5.65	-
75	11.16	33.46	25.57	244.2	.2102	4.84	-
100	9.50	33.52	25.90	212.9	.2677	3.80	-
150	8.30	33.76	26.28	177.9	.366	3.80	-
200	7.80	33.91	26.47	160.4	.451	3.63	-
250	7.22	33.96	26.59	149.3	.529	3.18	-
300	6.87	33.99	26.66	143.1	.603	2.40	-
400	6.10	34.12	26.87	124.7	.738	1.17	-
500	5.68	34.24	27.01	111.6	.857	.80	-
600	5.10	34.27	27.11	103.3	.965	.65	-
700	4.66	34.30	27.18	96.8	1.066	.60	-
800	4.40	34.37	27.26	89.5	1.161	.48	-
1000	3.84	34.44	27.38	79.4	1.331	.54	-

STATION 80.90 (Interpolated Values at Standard Depths)

CREST: 33°12'N 123°12'W June 10, 1950 1120 GCT Wire angle: 11°
 Sounding: 2,200 fms. Depth of observation: 1185 m. Weather: drizzle
 Sea: slight Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.76	33.15	24.62	332.9	.0000	5.82	-
10	14.77	33.15	24.62	333.4	.0334	6.04	-
20	14.55	33.15	24.66	329.2	.0667	6.12	-
30	14.54	33.15	24.67	329.3	.0998	6.15	-
50	14.06	33.19	24.80	317.2	.1647	5.60	-
75	12.30	33.10	25.08	290.9	.2412	5.60	-
100	10.72	33.23	25.47	254.2	.3098	5.12	-
150	9.07	33.52	25.97	207.2	.426	4.42	-
200	8.12	33.90	26.41	165.7	.520	3.43	-
250	7.43	34.01	26.60	148.5	.599	2.65	-
300	6.84	34.04	26.70	139.0	.671	2.05	-
400	5.99	34.07	26.84	127.0	.805	1.22	-
500	5.28	34.15	26.99	113.3	.927	.76	-
600	4.84	34.23	27.11	103.1	1.036	.55	-
700	4.53	34.28	27.18	96.7	1.137	.47	-
800	4.30	34.34	27.25	90.5	1.231	.45	-
1000	3.73	34.44	27.39	78.1	1.402	.70	-

STATION 80.100 (Interpolated Values at Standard Depths)

CREST: 32°49'N 123°56'W June 10, 1950 1706 GCT Wire angle: 5°
 Sounding: 2,300 fms. Depth of observation: 1199 m. Weather: clear
 Sea: rough Wind: 270°, force 2

0	15.13	33.22	24.59	335.4	.0000	5.65	-
10	14.96	33.21	24.62	332.9	.0335	5.33	-
20	14.76	33.24	24.69	326.9	.0667	5.43	-
30	14.64	33.24	24.71	324.7	.0994	5.50	-
50	14.12	33.19	24.79	318.4	.1640	5.58	-
75	11.38	33.10	25.25	274.5	.2385	5.64	-
100	10.23	33.28	25.59	242.4	.3036	4.73	-
150	8.78	33.66	26.13	192.4	.413	3.54	-
200	8.12	33.86	26.38	168.7	.504	2.87	-
250	7.45	33.96	26.56	152.5	.585	2.50	-
300	6.81	34.02	26.69	140.1	.659	2.12	-
400	5.92	34.05	26.83	127.6	.793	1.18	-
500	5.21	34.13	26.98	114.0	.915	.77	-
600	4.58	34.36	27.24	90.4	1.018	.64	-
700	4.23	34.40	27.31	84.3	1.106	.51	-
800	4.08	34.42	27.34	82.0	1.190	.46	-
1000	3.60	34.45	27.41	75.8	1.350	.71	-

STATION 80.110 (Interpolated Values at Standard Depths)

CREST: 32°29'N 124°34'W June 10, 1950 2252 GCT Wire angle: 23°
 Sounding: 2,350 fms. Depth of observation: 1099 m. Weather: cloudy
 Sea: rough Wind: 240°, force 3

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	15.52	33.12	24.43	350.9	.0000	4.67	-
10	14.73	33.04	24.54	340.6	.0347	5.28	-
20	14.59	33.10	24.62	333.7	.0686	5.39	-
30	14.56	33.09	24.62	334.1	.1021	5.45	-
50	13.97	33.06	24.72	325.0	.1683	5.58	-
75	12.75	33.19	25.06	292.6	.2459	5.68	-
100	9.44	33.20	25.66	235.7	.3124	5.50	-
150	8.50	33.43	25.99	205.3	.423	4.25	-
200	8.06	33.92	26.44	163.4	.516	3.10	-
250	7.36	33.99	26.59	149.1	.595	2.69	-
300	6.77	34.00	26.68	141.0	.668	2.11	-
400	6.00	34.09	26.86	125.6	.802	1.04	-
500	5.20	34.25	27.08	104.9	.918	.70	-
600	4.68	34.31	27.19	95.3	1.020	.54	-
700	4.55	34.35	27.23	91.8	1.114	.48	-
800	4.34	34.40	27.30	86.5	1.204	.49	-
1000	3.62	34.49	27.44	73.1	1.365	.71	-

STATION 80.120 (Interpolated Values at Standard Depths)

CREST: 32°09'N 125°15'W June 11, 1950 0438 GCT Wire angle: 12°
 Sounding: 2,230 fms. Depth of observation: 1163 m. Weather: clear
 Sea: moderate Wind: 270°, force 3

0	15.66	33.08	24.37	356.8	.0000	5.52	-
10	14.84	33.09	24.56	339.2	.0349	5.60	-
20	14.77	33.05	24.54	341.0	.0691	6.15	-
30	14.70	33.04	24.55	340.6	.1033	6.19	-
50	14.27	33.04	24.64	332.4	.1709	5.71	-
75	14.41	33.03	24.60	336.6	.2550	5.23	-
100	13.25	33.09	24.89	310.0	.3364	4.77	-
150	10.77	33.38	25.58	245.0	.476	3.99	-
200	8.77	33.73	26.18	188.0	.585	3.65	-
250	7.86	33.98	26.51	156.9	.672	3.08	-
300	7.31	34.05	26.65	144.7	.748	2.35	-
400	5.84	34.02	26.82	128.8	.886	1.71	-
500	5.15	34.11	26.97	114.7	1.009	1.28	-
600	5.12	34.21	27.06	108.0	1.121	.64	-
700	4.79	34.30	27.17	98.4	1.225	.47	-
800	4.37	33.37	27.27	89.1	1.320	.45	-
1000	3.77	34.47	27.41	76.3	1.487	.66	-

STATION 80.130 (Interpolated Values at Standard Depths)

CREST: 31°49'N 125°56'W June 11, 1950 1024 GCT Wire angle: 8°
 Sounding: 2,250 fms. Depth of observation: 1198 m. Weather: clear
 Sea: moderate Wind: 270°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	16.11	33.42	24.53	341.5	.0000	6.00	-
10	16.10	33.39	24.51	343.8	.0344	5.76	-
20	15.60	33.32	24.57	338.5	.0687	5.92	-
30	15.55	33.31	24.57	338.5	.1026	6.02	-
50	15.31	33.38	24.68	328.9	.1697	6.07	-
75	15.69	33.43	24.63	334.0	.2530	5.60	-
100	13.28	33.36	25.09	290.8	.3316	5.74	-
150	12.50	33.73	25.53	250.1	.468	5.03	-
200	9.65	33.73	26.04	201.7	.582	4.60	-
250	8.47	33.81	26.29	178.4	.677	4.12	-
300	7.63	33.99	26.56	153.7	.761	3.48	-
400	6.21	34.04	26.79	132.0	.905	2.07	-
500	5.17	34.11	26.97	115.0	1.029	1.21	-
600	4.78	34.21	27.10	103.9	1.140	.79	-
700	4.44	34.31	27.21	93.4	1.239	.50	-
800	4.10	34.40	27.32	83.7	1.329	.35	-
1000	3.69	34.51	27.45	72.4	1.487	.75	-

STATION 83.55 (Interpolated Values at Standard Depths)

CREST: 33°41'N 120°25'W June 16, 1950 1454 GCT Wire angle: 12°
 Sounding: 700 fms. Depth of observation: 1250 m. Weather: drizzle.
 Sea: rough Wind: 320°, force 4

0	12.88	33.62	25.37	261.6	.0000	5.53	-
10	12.86	33.66	25.40	258.6	.0261	5.23	-
20	12.75	33.62	25.39	259.7	.0521	5.50	-
30	12.25	33.62	25.49	250.7	.0778	5.68	-
50	11.33	33.64	25.68	233.3	.1264	4.87	-
75	9.50	33.77	26.10	194.0	.1801	3.15	-
100	9.01	33.92	26.29	175.7	.2266	2.60	-
150	8.41	34.07	26.50	156.5	.310	2.08	-
200	7.92	34.15	26.64	144.3	.386	1.37	-
250	7.55	34.20	26.73	136.2	.457	1.05	-
300	7.30	34.24	26.80	130.5	.524	.92	-
400	6.87	34.30	26.91	121.6	.651	.72	-
500	6.30	34.33	27.01	113.1	.769	.56	-
600	5.73	34.35	27.09	105.4	.879	.48	-
700	5.30	34.36	27.15	100.3	.983	.45	-
800	4.89	34.38	27.22	94.7	1.082	.47	-
1000	4.17	34.49	27.38	79.7	1.258	.63	-

STATION 83.60 (Interpolated Values at Standard Depths)

CREST: 33°32'N 120°45'W June 16, 1950 1118 GCT Wire angle: 22°
 Sounding: 950 fms. Depth of observation: 1197 m. Weather: drizzle
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	12.97	33.62	25.35	263.3	.0000	6.30	-
10	12.97	33.62	25.35	263.6	.0264	6.03	-
20	12.90	33.66	25.40	259.6	.0527	5.99	-
30	12.50	33.65	25.47	253.1	.0784	5.90	-
50	11.42	33.59	25.62	238.6	.1279	5.43	-
75	10.59	33.66	25.83	219.8	.1855	4.72	-
100	9.35	33.67	26.04	199.5	.2382	4.00	-
150	8.37	33.90	26.38	168.5	.331	3.11	-
200	8.07	34.09	26.57	150.9	.411	1.95	-
250	7.68	34.18	26.70	139.5	.484	1.54	-
300	7.21	34.24	26.81	129.2	.552	1.24	-
400	6.63	34.29	26.93	119.1	.677	.78	-
500	6.03	34.33	27.04	109.5	.792	.62	-
600	5.55	34.39	27.15	100.1	.898	.56	-
700	5.11	34.43	27.23	92.7	.996	.56	-
800	4.70	34.45	27.30	87.2	1.086	.55	-
1000	4.18	34.45	27.35	82.7	1.258	.75	-

STATION 83.70 (Interpolated Values at Standard Depths)

CREST: 33°13'N 121°25'W June 16, 1950 0605 GCT Wire angle: 20°
 Sounding: 2,000 fms. Depth of observation: 1206 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

0	14.71	33.17	24.65	330.4	.0000	5.53	-
10	14.67	33.11	24.61	334.3	.0334	6.10	-
20	13.97	33.08	24.73	322.7	.0664	6.23	-
30	13.89	33.07	24.74	322.2	.0987	6.24	-
50	12.38	33.06	25.03	294.7	.1607	6.14	-
75	12.04	33.15	25.17	282.5	.2333	5.68	-
100	9.45	33.04	25.53	247.7	.3000	5.30	-
150	8.59	33.70	26.19	186.6	.409	3.80	-
200	8.10	33.96	26.46	161.0	.497	2.81	-
250	7.51	33.98	26.57	151.9	.576	2.25	-
300	6.82	34.00	26.68	141.7	.650	1.82	-
400	5.95	34.13	26.89	122.0	.782	1.18	-
500	5.39	34.20	27.02	111.0	.900	.71	-
600	4.92	34.27	27.13	101.1	1.007	.61	-
700	4.63	34.35	27.22	92.7	1.105	.60	-
800	4.47	34.43	27.30	85.9	1.195	.60	-
1000	3.89	34.49	27.41	76.3	1.359	.74	-

STATION 83.80 (Interpolated Values at Standard Depths)

CREST: 32°54'N 122°07'W June 16, 1950 0052 GCT Wire angle: 44°
 Sounding: 2,175 fms. Depth of observation: 791 m. Weather: rain showers
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.55	33.06	24.59	335.3	.0000	5.30	-
10	14.40	33.04	24.61	334.0	.0336	5.56	-
20	14.18	33.04	24.66	329.8	.0669	5.23	-
30	14.17	33.02	24.64	331.4	.1001	5.33	-
50	14.03	33.14	24.77	320.3	.1656	5.25	-
75	12.85	33.08	24.96	302.6	.2439	4.82	-
100	10.32	33.12	25.45	255.7	.3141	4.63	-
150	9.13	33.60	26.02	202.2	.429	3.16	-
200	8.37	33.89	26.37	170.2	.523	2.22	-
250	7.81	34.02	26.55	153.2	.605	1.80	-
300	7.10	34.02	26.65	144.0	.679	1.52	-
400	6.06	34.07	26.83	127.9	.816	1.27	-
500	5.56	34.17	26.97	115.3	.939	.78	-
600	4.99	34.22	27.08	105.7	1.051	.56	-
700	4.53	34.26	27.16	98.2	1.153	.45	-
800	(4.30)	(34.34)	(27.25)	(90.5)	(1.249)	(.40)	-
1000	(3.75)	(34.44)	(27.39)	(78.3)	(1.419)	-	-

STATION 83.90 (Interpolated Values at Standard Depths)

CREST: 32°36'N 122°46'W June 15, 1950 1939 GCT Wire Angle: 23°
 Sounding: 2,130 fms. Depth of observation: 1160 m. Weather: overcast
 Sea: very rough Wind: 320°, force missing

0	14.91	33.08	24.53	341.1	.0000	6.02	-
10	14.88	33.08	24.54	340.8	.0342	5.89	-
20	14.82	33.06	24.54	341.3	.0685	5.83	-
30	14.78	33.05	24.54	341.5	.1027	5.85	-
50	14.48	33.03	24.59	337.4	.1710	5.97	-
75	14.10	33.00	24.64	332.6	.2552	6.18	-
100	12.45	33.03	25.00	299.4	.3347	6.39	-
150	9.99	33.36	25.69	233.6	.469	5.41	-
200	8.20	33.68	26.23	183.2	.574	3.98	-
250	7.54	33.89	26.49	159.0	.660	3.38	-
300	7.08	33.99	26.63	146.0	.737	2.75	-
400	6.14	34.05	26.81	130.4	.876	1.37	-
500	5.48	34.17	26.98	114.3	.999	.74	-
600	4.95	34.26	27.12	102.2	1.109	.64	-
700	4.56	34.32	27.21	94.1	1.208	.63	-
800	4.22	34.34	27.26	89.5	1.301	.63	-
1000	3.66	34.35	27.33	83.9	1.476	.77	-

STATION 87.35 (Interpolated Values at Standard Depths)

CREST: 33°49'N 118°37'W June 14, 1950 0806 GCT Wire angle: 0°
 Sounding: 400 fms. Depth of observation: 703 m. Weather: partly cloudy
 Sea: slight Wind: 270°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	16.10	33.60	24.67	328.2	.0000	5.85	-
10	15.61	33.58	24.76	319.4	.0325	6.09	-
20	13.48	33.57	25.21	277.2	.0625	5.95	-
30	11.80	33.57	25.54	246.3	.0887	5.47	-
50	10.33	33.58	25.81	220.8	.1357	3.97	-
75	9.78	33.76	26.04	199.1	.1885	3.03	-
100	9.10	33.89	26.25	179.3	.2361	2.57	-
150	8.71	34.04	26.43	163.2	.322	1.94	-
200	8.52	34.13	26.53	154.6	.402	1.53	-
250	7.97	34.13	26.62	147.4	.478	1.13	-
300	7.65	34.16	26.69	141.4	.551	.78	-
400	7.04	34.24	26.84	128.4	.687	-	-
500	6.41	34.27	26.94	119.0	.812	-	-
600	5.91	34.31	27.04	110.7	.928	-	-
700	5.37	34.34	27.13	102.7	1.035	-	-

STATION 87.40 (Interpolated Values at Standard Depths)

CREST: 33°40'N 118°58'W June 14, 1950 1126 GCT Wire angle: 5°
 Sounding: 390 fms. Depth of observation: 603 m. Weather: partly cloudy
 Sea: moderate Wind: 360°, force 3

0	15.69	33.57	24.74	321.6	.0000	6.01	-
10	15.64	33.57	24.75	320.8	.0322	5.95	-
20	13.75	33.57	25.15	282.5	.0625	5.80	-
30	11.90	33.57	25.52	248.1	.0892	5.45	-
50	9.93	33.64	25.92	209.9	.1352	3.46	-
75	9.62	33.82	26.12	192.1	.1857	2.95	-
100	9.01	33.89	26.27	178.0	.2323	2.66	-
150	8.57	34.01	26.43	163.3	.318	2.15	-
200	8.19	34.07	26.54	154.2	.398	1.75	-
250	7.78	34.13	26.64	144.6	.473	1.06	-
300	7.38	34.16	26.73	137.5	.544	.75	-
400	6.65	34.25	26.90	122.3	.675	-	-
500	6.20	34.27	26.97	116.2	.796	-	-
600	5.76	34.27	27.03	111.7	.911	-	-

STATION 87.60 (Interpolated Values at Standard Depths)

CREST: 33°00'N 120°21'W June 14, 1950 2038 GCT Wire angle: 23°
 Sounding: 350 fms. Depth of observation: 742 m. Weather: cloudy
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	13.50	33.68	25.29	269.0	.0000	5.88	-
10	13.50	33.64	25.26	272.2	.0272	5.56	-
20	13.41	33.64	25.28	270.7	.0544	5.70	-
30	13.35	33.64	25.29	269.8	.0816	5.68	-
50	11.15	33.67	25.73	228.0	.1316	4.33	-
75	9.80	33.69	25.98	204.6	.1860	3.48	-
100	9.15	33.80	26.18	186.8	.2352	2.90	-
150	5.87	33.93	26.75	132.7	.316	2.42	-
200	4.98	34.08	26.97	111.7	.377	1.60	-
250	4.50	34.15	27.08	101.6	.431	1.00	-
300	4.36	34.17	27.11	99.1	.481	.83	-
400	3.76	34.25	27.24	87.6	.576	.65	-
500	3.28	34.32	27.34	78.2	.659	.60	-
600	2.81	34.33	27.39	73.5	.736	-	-
700	2.47	34.35	27.43	69.2	.808	-	-

STATION 87.70 (Interpolated Values at Standard Depths)

CREST: 32°39'N 121°03'W June 15, 1950 0220 GCT Wire angle: 35°
 Sounding: 2,000 fms. Depth of observation: 955 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

0	14.76	33.13	24.60	334.4	.0000	5.37	-
10	14.76	33.13	24.60	334.7	.0336	5.25	-
20	14.75	33.13	24.61	334.7	.0672	5.00	-
30	14.74	33.11	24.59	336.3	.1009	5.03	-
50	14.47	33.10	24.64	332.0	.1680	5.07	-
75	13.07	33.26	25.05	293.5	.2467	5.11	-
100	10.42	33.47	25.71	231.5	.3127	4.98	-
150	9.23	33.56	25.98	206.7	.423	3.47	-
200	8.42	33.71	26.22	184.2	.521	2.67	-
250	7.83	33.98	26.52	156.5	.607	2.23	-
300	7.26	34.03	26.64	145.5	.683	1.88	-
400	6.07	34.10	26.85	125.8	.820	1.16	-
500	5.46	34.17	26.99	114.1	.941	.80	-
600	4.94	34.25	27.11	102.8	1.050	.57	-
700	4.62	34.35	27.22	92.6	1.149	.45	-
800	4.35	34.38	27.28	88.1	1.240	.43	-
1000	(3.75)	(34.41)	(27.36)	(80.5)	(1.411)	(.75)	-

STATION 87.80 (Interpolated Values at Standard Depths)

CREST: 32°20'N 121°43'W June 15, 1950 0802 GCT Wire angle: 23°
 Sounding: 2,250 fms. Depth of observation: 1.196 m. Weather: cloudy
 Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	14.45	33.06	24.62	333.2	.0000	6.23	-
10	14.45	33.06	24.62	333.5	.0335	5.88	-
20	14.45	33.06	24.62	333.8	.0670	6.10	-
30	14.49	33.08	24.62	333.4	.1005	6.09	-
50	14.52	33.13	24.66	330.9	.1672	5.95	-
75	14.12	33.07	24.69	327.9	.2500	5.92	-
100	13.76	33.32	24.96	303.1	.3294	5.90	-
150	10.21	33.25	25.57	245.3	.467	5.35	-
200	8.78	33.73	26.18	188.1	.577	3.65	-
250	7.97	33.94	26.47	161.4	.665	2.92	-
300	7.25	34.00	26.62	147.6	.742	2.59	-
400	6.22	34.06	26.80	130.7	.883	2.21	-
500	5.58	34.14	26.95	117.8	1.008	.92	-
600	5.00	34.22	27.08	105.8	1.121	.78	-
700	4.55	34.30	27.19	95.5	1.222	.61	-
800	4.23	34.40	27.31	85.2	1.314	.47	-
1000	3.69	34.47	27.42	75.4	1.476	.72	-

STATION 87.90 (Interpolated values at Standard Depths)

CREST: 32°01'N 122°24'W June 15, 1950 1344 GCT Wire angle: 21°
 Sounding: 2,275 fms. Depth of observation: 1190 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

0	15.52	33.33	24.59	335.5	.0000	5.64	-
10	15.52	33.34	24.60	335.1	.0337	5.50	-
20	15.52	33.35	24.61	334.6	.0673	5.53	-
30	15.52	33.37	24.62	333.4	.1008	5.61	-
50	15.63	33.48	24.68	328.3	.1673	5.78	-
75	14.32	33.14	24.70	326.8	.2497	5.78	-
100	14.23	33.44	24.95	303.7	.3290	5.54	-
150	11.15	33.49	25.59	243.5	.467	5.14	-
200	9.06	33.66	26.08	197.6	.578	4.07	-
250	8.33	33.86	26.35	172.7	.671	3.66	-
300	7.49	33.97	26.56	153.2	.753	3.29	-
400	6.60	34.05	26.75	136.4	.899	1.59	-
500	5.60	34.13	26.94	118.8	1.028	1.04	-
600	4.72	34.23	27.12	101.7	1.139	.78	-
700	4.50	34.33	27.22	92.6	1.237	.62	-
800	4.43	34.41	27.29	86.9	1.328	.59	-
1000	3.92	34.47	27.39	78.1	1.495	.70	-

STATION 90.30 (Interpolated Values at Standard Depths)

CREST: 33°24'N 117°55'W June 14, 1950 0248 GCT Wire angle: 6°
 Sounding: 335 fms. Depth of observation: 502 m. Weather: cloudy
 Sea: slight Wind: 220°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10 ⁵ S	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	17.20	33.58	24.40	354.0	.0000	5.39	-
10	16.49	33.57	24.56	339.2	.0348	5.50	-
20	14.52	33.50	24.94	303.0	.0670	5.92	-
30	12.75	33.49	25.29	269.5	.0958	6.02	-
50	10.72	33.58	25.74	227.3	.1457	4.50	-
75	9.61	33.71	26.03	200.1	.1994	2.99	-
100	9.27	33.83	26.18	186.4	.2480	2.74	-
150	8.79	34.02	26.40	165.9	.337	2.18	-
200	8.49	34.08	26.50	157.9	.418	1.73	-
250	8.63	34.25	26.61	148.3	.495	.99	-
300	8.08	34.27	26.71	139.5	.568	.60	-
400	7.40	34.29	26.82	129.8	.704	-	-
500	6.40	34.24	26.92	121.1	.830	-	-

STATION 90.37 (Interpolated Values at Standard Depths)

CREST: 33°11'N 118°24'W June 13, 1950 2135 GCT Wire angle: 16°
 Sounding: 630 fms. Depth of observation: 980 m. Weather: partly cloudy
 Sea: moderate Wind: 270°, force 3

0	16.53	33.57	24.55	339.8	.0000	5.53	-
10	16.25	33.53	24.58	336.8	.0340	5.72	-
20	13.80	33.48	25.07	290.1	.0654	5.52	-
30	11.25	33.48	25.57	243.3	.0922	5.08	-
50	10.25	33.58	25.82	219.5	.1387	4.25	-
75	9.60	33.71	26.03	200.0	.1914	3.52	-
100	9.06	33.89	26.26	178.7	.2391	2.88	-
150	8.58	34.00	26.42	164.2	.325	2.27	-
200	8.19	34.11	26.57	151.2	.405	1.87	-
250	7.84	34.17	26.67	142.5	.479	1.44	-
300	7.54	34.21	26.74	136.1	.549	1.02	-
400	7.27	34.29	26.84	127.9	.682	.66	-
500	6.28	34.28	26.97	116.5	.805	.50	-
600	5.71	34.30	27.06	108.8	.919	.45	-
700	5.10	34.34	27.16	99.3	1.024	.46	-
800	4.78	34.37	27.22	94.1	1.122	-	-
1000	(4.19)	(34.44)	(27.34)	(83.6)	(1.301)	-	-

STATION 90.45 (Interpolated Values at Standard Depths)

CREST: 32°56'N 118°58'W June 13, 1950 1622 GCT Wire angle: 20°
 Sounding: 850 fms. Depth of observation: 1,226 m. Weather: overcast
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	15.30	33.66	24.89	306.8	.0000	5.38	-
10	15.31	33.62	24.86	310.2	.0310	5.72	-
20	14.95	33.58	24.91	305.9	.0619	5.28	-
30	12.30	33.58	25.45	254.6	.0900	4.30	-
50	10.20	33.62	25.86	215.7	.1373	3.10	-
75	9.70	33.78	26.07	196.4	.1891	2.73	-
100	9.11	33.86	26.23	181.7	.2367	2.44	-
150	8.67	34.06	26.46	161.1	.323	1.70	-
200	8.28	34.19	26.62	146.6	.400	1.30	-
250	7.82	34.22	26.71	138.5	.472	1.11	-
300	7.40	34.22	26.77	133.4	.541	.98	-
400	6.66	34.24	26.89	123.2	.670	.65	-
500	6.13	34.30	27.00	113.0	.789	.44	-
600	5.58	34.34	27.11	104.2	.899	.47	-
700	5.15	34.38	27.19	96.9	1.000	.48	-
800	4.79	34.44	27.28	89.1	1.094	.48	-
1000	4.11	34.49	27.39	78.9	1.264	.52	-

STATION 90.53 (Interpolated Values at Standard Depths)

CREST: 32°40'N 119°30'W June 13, 1950 1109 GCT Wire angle: 23°
 Sounding: 400 fms. Depth of observation: 544 m. Weather: cloudy
 Sea: rough Wind: 320°, force 5

0	14.39	33.60	25.04	292.5	.0000	6.08	-
10	14.39	33.66	25.09	288.3	.0292	6.00	-
20	14.36	33.63	25.07	290.2	.0582	5.90	-
30	14.00	33.62	25.14	284.0	.0870	5.67	-
50	11.05	33.63	25.72	229.2	.1386	4.52	-
75	9.76	33.70	26.00	203.2	.1930	3.72	-
100	9.07	33.76	26.16	188.5	.2422	3.53	-
150	8.40	34.12	26.54	152.7	.328	2.05	-
200	7.90	34.18	26.67	141.8	.402	1.48	-
250	7.59	34.22	26.74	135.2	.472	1.15	-
300	7.30	34.28	26.83	127.5	.538	.90	-
400	6.59	34.34	26.98	114.8	.660	.65	-
500	5.91	34.37	27.09	105.0	.771	.50	-

STATION 90.80 (Interpolated Values at Standard Depths)

CREST: 31°39'N 121°21'W June 12, 1950 1930 GCT Wire angle: 20°
 Sounding: 2,040 fms. Depth of observation: 1,210 m. Weather: cloudy
 Sea: rough Wind: 330°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	15.35	33.12	24.47	347.3	.0000	5.60	-
10	15.32	33.12	24.47	347.0	.0349	5.52	-
20	15.25	33.13	24.50	345.0	.0696	5.54	-
30	15.11	33.13	24.53	342.4	.1041	5.55	-
50	14.89	33.13	24.58	338.4	.1725	5.55	-
75	15.05	33.13	24.54	342.4	.2581	5.60	-
100	13.73	33.20	24.87	311.3	.3403	5.92	-
150	10.95	33.15	25.37	265.0	.485	5.36	-
200	9.10	33.54	25.98	207.1	.604	3.87	-
250	8.11	33.84	26.37	170.9	.699	2.69	-
300	7.50	33.94	26.54	155.5	.782	1.85	-
400	6.46	34.05	26.76	134.6	.928	1.04	-
500	5.44	34.05	26.89	122.7	1.058	.94	-
600	4.90	34.15	27.04	109.8	1.175	.77	-
700	4.62	34.27	27.16	98.5	1.280	.64	-
800	4.29	34.33	27.25	91.1	1.376	.57	-
1000	3.79	34.40	27.35	81.7	1.551	.75	-

STATION 90.90 (Interpolated Values at Standard Depths)

CREST: 31°20'N 122°02'W June 12, 1950 1417 GCT Wire angle: 30°
 Sounding: 2,150 fms. Depth of observation: 1,052 m. Weather: cloudy
 Sea: rough Wind: 320°, force 4

0	15.79	33.24	24.46	347.8	.0000	5.35	-
10	15.80	33.22	24.45	349.8	.0350	5.05	-
20	15.64	33.22	24.48	346.7	.0700	5.16	-
30	15.56	33.24	24.51	343.8	.1046	5.11	-
50	15.75	33.40	24.59	336.7	.1730	5.02	-
75	16.08	33.50	24.60	337.3	.2577	5.09	-
100	14.49	33.46	24.92	307.4	.3389	5.07	-
150	12.90	33.65	25.39	263.5	.483	4.79	-
200	9.90	33.70	25.97	208.0	.601	4.00	-
250	8.64	33.84	26.29	178.8	.699	3.40	-
300	7.81	33.94	26.49	160.0	.784	2.84	-
400	6.52	34.04	26.75	136.1	.933	1.58	-
500	5.77	34.11	26.90	122.4	1.064	.99	-
600	5.34	34.19	27.02	112.2	1.182	.69	-
700	4.66	34.27	27.16	99.0	1.289	.44	-
800	4.28	34.33	27.25	91.0	1.385	.53	-
1000	3.87	34.41	27.35	82.0	1.559	.60	-

STATION 90.120 (Interpolated Values at Standard Depths)

CREST: 30°24'N 124°02'W June 11, 1950 2238 GCT Wire angle: 4°
 Sounding: 2,250 fms. Depth of observation: 1200 m. Weather: cloudy
 Sea: rough Wind: 360°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	17.36	33.66	24.42	351.8	.0000	4.84	-
10	16.79	33.61	24.52	342.9	.0349	5.47	-
20	16.70	33.63	24.55	339.7	.0691	5.55	-
30	16.70	33.70	24.61	334.9	.1030	5.53	-
50	16.90	33.82	24.65	331.3	.1700	5.36	-
75	17.25	33.91	24.64	333.4	.2535	5.32	-
100	17.30	33.92	24.63	334.6	.3375	5.26	-
150	14.30	33.93	25.32	270.6	.490	5.16	-
200	11.13	33.72	25.78	227.3	.615	4.69	-
250	9.17	33.84	26.20	187.0	.720	3.72	-
300	7.91	34.02	26.54	155.5	.806	2.74	-
400	6.50	34.05	26.76	135.1	.952	1.65	-
500	5.17	34.18	27.03	109.7	1.076	.66	-
600	5.28	34.27	27.09	105.6	1.184	.60	-
700	4.90	34.31	27.16	99.0	1.288	.59	-
800	4.48	34.34	27.23	92.6	1.384	.54	-
1000	3.89	34.45	27.38	79.2	1.558	.69	-

STATION 93.30 (Interpolated Values at Standard Depths)

CREST: 32°47'N 117°31'W June 18, 1950 1238 GCT Wire angle: 0°
 Sounding: 390 fms. Depth of observation: 455 m. Weather: overcast
 Sea: moderate Wind: 270°, force 1

0	17.16	33.64	24.45	348.7	.0000	5.49	-
10	15.54	33.60	24.79	316.5	.0334	5.77	-
20	11.85	33.54	25.50	249.2	.0618	5.00	-
30	10.72	33.53	25.70	230.6	.0859	4.06	-
50	9.92	33.73	25.99	203.1	.1295	3.06	-
75	9.41	33.86	26.18	185.9	.1783	2.60	-
100	9.08	33.96	26.31	173.9	.2236	2.59	-
150	8.60	34.07	26.47	159.4	.307	2.19	-
200	8.60	34.25	26.61	147.0	.385	1.64	-
250	7.98	34.15	26.63	146.0	.458	1.27	-
300	7.76	34.25	26.74	136.3	.529	.88	-
400	7.16	34.31	26.87	124.9	.661	.57	-

STATION 93.40 (Interpolated Values at Standard Depths)

CREST: 32°29'N 118°13'W June 18, 1950 1751 GCT Wire angle: 20°
 Sounding: 850 fms. Depth of observation: 1135 m. Weather: overcast
 Sea: rough Wind: 270°, force 1-2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	16.02	33.60	24.69	326.5	.0000	5.69	-
10	16.00	33.58	24.68	327.8	.0328	5.91	-
20	15.80	33.56	24.71	325.2	.0656	5.85	-
30	15.00	33.54	24.87	310.1	.0975	5.67	-
50	11.27	33.46	25.55	245.5	.1534	5.35	-
75	10.72	33.56	25.73	229.3	.2131	4.15	-
100	9.30	33.80	26.15	189.1	.2657	3.26	-
150	8.75	33.97	26.37	169.0	.356	2.53	-
200	8.14	34.07	26.54	153.4	.437	2.04	-
250	7.69	34.14	26.67	142.6	.512	1.49	-
300	7.33	34.18	26.75	135.3	.582	1.03	-
400	6.76	34.25	26.88	123.8	.712	.64	-
500	6.07	34.29	27.00	113.0	.832	.56	-
600	5.51	34.33	27.11	104.0	.941	.52	-
700	5.05	34.36	27.19	96.1	1.042	.48	-
800	4.66	34.36	27.23	93.4	1.133	.50	-
1000	4.06	34.38	27.31	86.5	1.320	.61	-

STATION 93.50 (Interpolated Values at Standard Depths)

CREST: 32°10'N 118°53'W June 18, 1950 2304 GCT Wire angle: 27°
 Sounding: 650 fms. Depth of observation: 1102 m. Weather: overcast
 Sea: very rough Wind: 320°, force 6

0	14.87	33.60	24.94	302.2	.0000	5.22	-
10	14.88	33.62	24.95	301.3	.0303	5.07	-
20	14.87	33.62	24.96	301.3	.0605	5.47	-
30	14.79	33.62	24.97	300.0	.0907	5.00	-
50	9.54	33.75	26.07	195.6	.1405	2.92	-
75	9.07	33.92	26.28	176.2	.1873	2.62	-
100	8.69	34.02	26.42	163.5	.2300	2.24	-
150	8.30	34.10	26.54	152.7	.310	1.94	-
200	7.82	34.13	26.64	144.4	.384	1.44	-
250	7.42	34.18	26.74	135.8	.455	1.11	-
300	7.07	34.22	26.82	128.8	.522	.85	-
400	6.45	34.23	26.91	121.1	.647	.57	-
500	5.93	34.25	26.99	114.1	.766	.52	-
600	5.52	34.32	27.10	104.9	.877	.55	-
700	5.11	34.39	27.20	95.7	.978	.44	-
800	4.77	34.42	27.26	90.3	1.072	.45	-
1000	4.05	34.47	27.38	79.7	1.244	.57	-

STATION 93.60 (Interpolated Values at Standard Depths)

CREST: 31°51'N 119°36'W June 19, 1950 0417 GCT Wire angle: 42°
 Sounding: 1,000 fms. Depth of observation 1024 m. Weather: overcast
 Sea: high Wind: 320°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	13.93	33.49	25.06	291.4	.0000	6.10	-
10	13.91	33.49	25.06	291.2	.0292	6.28	-
20	13.90	33.50	25.07	290.6	.0585	5.95	-
30	13.88	33.55	25.11	286.8	.0874	5.89	-
50	12.65	33.48	25.31	268.9	.1433	5.98	-
75	10.32	33.55	25.79	223.4	.2051	5.00	-
100	9.58	33.67	26.00	203.1	.2588	3.25	-
150	8.63	33.85	26.30	176.1	.354	2.74	-
200	7.89	33.99	26.52	155.7	.438	2.65	-
250	7.59	34.15	26.69	140.4	.512	1.85	-
300	7.37	34.20	26.76	134.4	.582	1.03	-
400	6.50	34.20	26.88	124.0	.712	.72	-
500	5.84	34.24	26.99	113.7	.832	.67	-
600	5.41	34.31	27.10	104.2	.942	.57	-
700	5.05	34.37	27.19	96.4	1.043	.55	-
800	4.62	34.40	27.26	89.9	1.137	.58	-
1000	3.96	34.42	27.35	82.3	1.311	.69	-

STATION 93.70 (Interpolated Values at Standard Depths)

CREST: 31°32'N 120°16'W June 19, 1950 0932 GCT Wire angle: 32°
 Sounding: 2,050 fms. Depth of observation: 1,032 m. Weather: overcast
 Sea: very rough Wind: 320°, force 5

0	14.71	33.22	24.68	326.8	.0000	5.92	-
10	14.69	33.22	24.69	326.6	.0328	6.02	-
20	14.67	33.22	24.69	326.5	.0656	5.63	-
30	14.68	33.22	24.69	327.0	.0984	5.60	-
50	14.45	33.25	24.76	320.7	.1635	5.65	-
75	13.75	33.37	25.00	298.6	.2413	5.73	-
100	11.32	33.32	25.43	257.8	.3113	4.77	-
150	9.60	33.71	26.03	201.4	.427	3.02	-
200	8.71	33.96	26.37	170.1	.520	2.24	-
250	8.11	34.07	26.55	153.9	.602	1.73	-
300	7.67	34.13	26.66	143.9	.677	1.30	-
400	6.74	34.19	26.84	128.0	.814	.77	-
500	6.06	34.25	26.97	115.8	.937	.57	-
600	5.50	34.30	27.08	106.1	1.049	.49	-
700	4.99	34.35	27.18	97.1	1.152	.45	-
800	4.55	34.37	27.25	91.3	1.247	.49	-
1000	3.90	34.45	27.38	79.4	1.419	.65	-

STATION 93.80 (Interpolated Values at Standard Depths)

CREST: 31°13'N 120°56'W June 19, 1950 1445 GCT Wire angle: 49°
 Sounding: 2,075 fms. Depth of observation: 1,129 m. Weather: overcast
 Sea: high Wind: 320°, force 5-6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.88	33.53	24.89	307.6	.0000	5.65	-
10	14.87	33.42	24.80	315.7	.0313	6.02	-
20	14.87	33.42	24.80	316.0	.0630	5.64	-
30	14.88	33.42	24.80	316.4	.0947	5.84	-
50	14.65	33.44	24.87	310.8	.1578	6.33	-
75	12.20	33.44	25.36	264.1	.2300	5.32	-
100	10.68	33.48	25.67	235.1	.2928	5.57	-
150	9.24	33.79	26.15	189.9	.400	3.52	-
200	8.43	34.00	26.45	162.9	.489	2.73	-
250	7.67	34.04	26.59	149.7	.567	2.48	-
300	7.08	34.07	26.70	140.0	.640	2.17	-
400	6.30	34.20	26.90	121.3	.772	.85	-
500	5.87	34.28	27.02	111.1	.889	.53	-
600	5.42	34.34	27.12	102.1	.997	.39	-
700	4.89	34.38	27.22	93.7	1.096	.35	-
800	4.52	34.43	27.30	86.5	1.187	.47	-
1000	3.94	34.48	27.40	77.6	1.353	.80	-

STATION 93.90 (Interpolated Values at Standard Depths)

CREST: 30°54'N 121°38'W June 19, 1950 1958 GCT Wire angle: 25°
 Sounding: 2,100 fms. Depth of observation: 1,219 m. Weather: overcast
 Sea: very rough Wind: 320°, force 5

0	14.85	33.15	24.60	334.8	.0000	4.68	-
10	14.83	33.13	24.59	336.1	.0337	4.95	-
20	14.82	33.12	24.58	336.9	.0675	4.57	-
30	14.82	33.12	24.58	337.2	.1013	4.32	-
50	14.78	33.13	24.60	336.2	.1690	4.02	-
75	13.98	33.14	24.78	320.0	.2514	5.25	-
100	12.28	33.11	25.09	290.4	.3282	4.98	-
150	10.12	33.40	25.70	232.7	.460	3.97	-
200	8.78	33.82	26.25	181.5	.564	3.18	-
250	7.88	33.95	26.49	159.4	.650	2.52	-
300	7.24	34.03	26.64	145.2	.727	1.98	-
400	6.56	34.16	26.85	127.9	.864	1.06	-
500	6.10	34.27	26.98	114.9	.987	.51	-
600	5.59	34.32	27.09	105.8	1.098	.45	-
700	5.08	34.35	27.17	98.3	1.201	.43	-
800	4.71	34.38	27.24	92.5	1.297	.45	-
1000	4.05	34.48	27.39	78.9	1.471	.55	-

STATION 97.32 (Interpolated Values at Standard Depths)

CREST: 32°11'N 117°18'W June 21, 1950 1113 GCT Wire angle: 4°
 Sounding: 715 fms. Depth of observation: 1,208 m. Weather: overcast
 Sea: moderate Wind: 040°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	16.65	33.66	24.59	335.8	.0000	5.57	-
10	16.46	33.58	24.57	337.8	.0338	5.94	-
20	14.05	33.57	25.09	288.4	.0653	5.78	-
30	11.75	33.57	25.55	245.4	.0920	5.50	-
50	10.82	33.57	25.72	229.7	.1398	4.58	-
75	10.13	33.64	25.89	213.6	.1955	3.38	-
100	9.28	33.81	26.16	188.0	.2461	2.99	-
150	8.75	34.04	26.43	163.8	.335	2.49	-
200	8.18	34.09	26.55	152.5	.414	2.18	-
250	7.78	34.14	26.65	143.9	.489	1.77	-
300	7.62	34.22	26.74	136.5	.560	1.13	-
400	7.08	34.33	26.90	122.3	.690	.56	-
500	6.37	34.36	27.02	111.8	.808	.55	-
600	5.73	34.37	27.11	103.9	.917	.52	-
700	5.23	34.39	27.19	97.2	1.018	.48	-
800	4.81	34.42	27.26	90.8	1.113	.45	-
1000	4.11	34.49	27.39	78.9	1.285	.77	-

STATION 97.40 (Interpolated Values at Standard Depths)

CREST: 31°56'N 117°52'W June 21, 1950 0527 GCT Wire angle: 3°
 Sounding: 780 fms. Depth of observation: 1,289 m. Weather: overcast
 Sea: rough Wind: 270°, force 1

0	15.62	33.46	24.67	328.1	.0000	5.03	-
10	15.45	33.53	24.76	319.7	.0325	4.60	-
20	15.36	33.54	24.79	317.4	.0645	5.30	-
30	15.30	33.53	24.79	317.1	.0964	5.35	-
50	12.50	33.44	25.30	269.0	.1553	5.27	-
75	11.35	33.50	25.57	244.5	.2198	3.97	-
100	10.30	33.63	25.85	217.7	.2780	3.38	-
150	8.90	33.88	26.28	178.0	.378	3.15	-
200	8.10	34.02	26.51	156.6	.462	2.82	-
250	7.60	34.10	26.65	144.3	.538	1.90	-
300	7.37	34.17	26.73	136.6	.608	1.13	-
400	6.86	34.25	26.87	125.2	.740	.65	-
500	6.14	34.31	27.01	112.4	.860	.49	-
600	5.55	34.35	27.12	103.1	.969	.39	-
700	5.12	34.37	27.18	97.3	1.070	.41	-
800	4.78	34.40	27.25	91.9	1.165	.52	-
1000	4.18	34.48	27.38	80.5	1.340	.60	-

STATION 97.50 (Interpolated Values at Standard Depths)

CREST: 31°31'N 118°28'W June 21, 1950 0041 GCT Wire angle: 16°
 Sounding: 825 fms. Depth of observation: 1234 m. Weather: overcast
 Sea: moderate Wind: 270°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	15.77	33.53	24.69	326.2	.0000	5.75	-
10	15.47	33.52	24.75	320.9	.0325	5.53	-
20	15.45	33.55	24.78	318.5	.0646	5.55	-
30	15.42	33.56	24.79	317.5	.0965	5.64	-
50	12.96	33.44	25.21	277.6	.1563	5.74	-
75	11.00	33.50	25.63	238.5	.2212	4.90	-
100	9.95	33.57	25.87	216.4	.2784	3.90	-
150	8.97	33.94	26.31	174.6	.377	2.85	-
200	8.35	34.04	26.49	158.7	.461	2.34	-
250	7.81	34.13	26.64	145.1	.537	1.85	-
300	7.35	34.19	26.75	134.9	.608	1.34	-
400	6.67	34.23	26.88	124.1	.738	.73	-
500	6.10	34.30	27.01	112.6	.858	.50	-
600	5.50	34.33	27.11	103.9	.967	.50	-
700	4.96	34.36	27.19	96.0	1.068	.50	-
800	4.59	34.43	27.29	87.3	1.160	.47	-
1000	3.96	34.49	27.41	77.1	1.327	.67	-

STATION 97.60 (Interpolated Values at Standard Depths)

CREST: 31°13'N 119°09'W June 20, 1950 1955 GCT Wire angle: 18°
 Sounding: 800 fms. Depth of observation: 1,147 m. Weather: overcast
 Sea: moderate Wind: 320°, force 2

0	14.90	33.55	24.90	306.5	.0000	5.07	-
10	14.73	33.55	24.93	303.3	.0306	5.40	-
20	14.60	33.50	24.92	304.6	.0611	5.60	-
30	14.17	33.47	24.99	298.4	.0914	5.68	-
50	11.55	33.42	25.47	253.4	.1468	5.37	-
75	10.92	33.31	25.50	251.1	.2103	4.57	-
100	10.00	33.69	25.95	208.3	.2681	3.43	-
150	8.61	33.94	26.37	169.1	.363	2.76	-
200	8.30	34.14	26.57	150.6	.444	1.50	-
250	7.85	34.16	26.66	143.4	.518	1.23	-
300	7.31	34.18	26.75	135.1	.588	1.00	-
400	6.55	34.24	26.90	121.7	.717	.54	-
500	5.97	34.28	27.01	112.4	.835	.50	-
600	5.45	34.33	27.11	103.3	.944	.45	-
700	4.97	34.37	27.20	95.4	1.044	.45	-
800	4.58	34.42	27.28	87.9	1.137	.45	-
1000	3.84	34.50	27.43	74.9	1.302	.69	-

STATION 97.70 (Interpolated Values at Standard Depths)

CREST: 30°54'N 119°50'W June 20, 1950 1409 GCT Wire angle: 9°
 Sounding: 1,950 fms. Depth of observation: 1,261, 1,297 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	13.67	33.26	24.93	303.2	.0000	5.59	-
10	13.65	33.22	24.91	306.0	.0306	5.83	-
20	13.66	33.29	24.96	301.3	.0611	5.92	-
30	13.64	33.32	24.98	298.9	.0912	5.94	-
50	13.37	33.38	25.09	289.8	.1504	5.78	-
75	11.90	33.40	25.39	261.6	.2197	5.43	-
100	11.00	33.47	25.61	241.3	.2829	3.95	-
150	8.78	33.86	26.28	177.6	.388	3.73	-
200	8.05	34.00	26.50	157.3	.473	3.50	-
250	7.65	34.10	26.64	145.0	.549	2.83	-
300	7.39	34.19	26.75	135.4	.619	1.74	-
400	6.80	34.26	26.88	123.6	.750	.73	-
500	6.11	34.34	27.04	109.8	.868	.58	-
600	5.48	34.37	27.14	100.7	.974	.55	-
700	4.96	34.37	27.20	95.3	1.073	.52	-
800	4.62	34.40	27.26	89.9	1.166	.51	-
1000	3.98	34.50	27.41	76.6	1.335	.60	-

STATION 97.80 (Interpolated Values at Standard Depths)

CREST: 30°35'N 120°31'W June 20, 1950 0823 GCT Wire angle: 28°
 Sounding: 1,950 fms. Depth of observation: 1,235 m. Weather: drizzle
 Sea: very rough Wind: 320°, force 4

0	15.60	33.55	24.74	321.1	.0000	4.81	-
10	15.58	33.48	24.69	326.1	.0325	5.36	-
20	15.57	33.48	24.70	326.2	.0652	4.90	-
30	15.56	33.48	24.70	326.3	.0980	4.69	-
50	14.20	33.44	24.96	301.7	.1611	5.36	-
75	11.80	33.46	25.45	255.4	.2311	4.63	-
100	10.13	33.55	25.82	220.8	.2910	4.06	-
150	8.98	33.84	26.23	182.1	.392	2.65	-
200	8.27	33.94	26.42	165.0	.480	2.59	-
250	7.73	34.00	26.55	153.5	.560	2.34	-
300	7.28	34.11	26.70	139.8	.634	1.45	-
400	6.49	34.21	26.89	123.1	.766	.98	-
500	5.82	34.28	27.03	110.5	.884	.49	-
600	5.23	34.33	27.14	100.5	.991	.42	-
700	4.79	34.37	27.22	93.2	1.088	.42	-
800	4.46	34.41	27.29	87.2	1.180	.43	-
1000	3.90	34.47	27.40	77.9	1.347	.64	-

STATION 97.90 (Interpolated Values at Standard Depths)

CREST: 30°16'N 121°12'W June 20, 1950 0237 GCT Wire angle: 36°
 Sounding: 2,100 fms. Depth of observation: 1136 m. Weather: overcast
 Sea: very rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	16.47	33.53	24.53	341.4	.0000	5.80	-
10	16.47	33.53	24.53	341.7	.0343	5.53	-
20	16.46	33.53	24.53	341.7	.0686	5.33	-
30	16.45	33.53	24.54	341.8	.1029	5.33	-
50	16.40	33.53	24.55	341.3	.1716	5.38	-
75	13.96	33.37	24.96	302.7	.2525	5.90	-
100	12.67	33.50	25.32	269.0	.3244	5.47	-
150	10.18	33.56	25.82	221.9	.448	4.30	-
200	9.03	33.88	26.26	180.9	.549	3.05	-
250	8.26	34.03	26.49	159.0	.635	2.30	-
300	7.69	34.09	26.63	147.1	.712	1.75	-
400	6.90	34.19	26.82	130.2	.852	1.06	-
500	6.17	34.25	26.96	117.3	.977	.63	-
600	5.75	34.31	27.06	108.6	1.091	.53	-
700	5.15	34.36	27.17	98.4	1.195	.51	-
800	4.59	34.40	27.27	89.5	1.290	.51	-
1000	3.93	34.43	27.36	81.2	1.463	.70	-

STATION 100.30 (Interpolated Values at Standard Depths)

PAOLINA-T: 31°40.5'N 116°46.5'W June 23, 1950 1027 GCT Wire angle: 4°
 Sounding: 240 fms. Depth of observation: 358 m. Weather: overcast
 Sea: rough Wind: 310°, force 3

0	16.89	-	-	-	-	5.31	.35
10	15.00	-	-	-	-	6.02	.42
20	12.38	-	-	-	-	5.15	.60
30	11.77	-	-	-	-	4.70	.88
50	10.70	-	-	-	-	4.33	1.41
75	9.58	-	-	-	-	3.10	1.75
100	9.05	-	-	-	-	2.81	1.96
150	8.89	-	-	-	-	1.90	2.28
200	8.74	-	-	-	-	1.27	2.44
250	8.31	-	-	-	-	1.19	2.48
300	8.07	-	-	-	-	.94	2.62

STATION 105.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 30°09'N 116°33'W June 23, 1950 0032 GCT Wire angle: 20°
 Sounding: 800 fms. Depth of observation: 1,172 m. Weather: cloudy
 Sea: very rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	15.44	-	-	-	-	5.58	.40
10	16.10	-	-	-	-	5.92	.40
20	16.10	-	-	-	-	6.10	.45
30	13.13	-	-	-	-	6.10	.63
50	11.16	-	-	-	-	4.25	1.30
75	10.05	-	-	-	-	3.45	1.70
100	9.42	-	-	-	-	3.34	1.86
150	8.95	-	-	-	-	2.39	2.10
200	8.50	-	-	-	-	2.24	2.22
250	8.13	-	-	-	-	1.75	2.38
300	7.72	-	-	-	-	1.10	2.60
400	7.00	-	-	-	-	.70	2.88
500	6.61	-	-	-	-	.55	3.00
600	5.94	-	-	-	-	.31	3.02
700	5.31	-	-	-	-	.39	3.11
800	4.87	-	-	-	-	.42	3.17
1000	4.18	-	-	-	-	.65	3.16

STATION 110.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°46.5'N 116°00'W June 22, 1950 1538 GCT Wire angle: 17°
 Sounding: 900 fms. Depth of observation: 1,165 m. Weather: overcast
 Sea: rough Wind: 290°, force 2

0	15.61	-	-	-	-	5.30	.39
10	15.50	-	-	-	-	5.31	.42
20	15.27	-	-	-	-	5.42	.44
30	15.22	-	-	-	-	5.49	.50
50	12.70	-	-	-	-	5.56	.68
75	11.26	-	-	-	-	4.60	1.11
100	9.82	-	-	-	-	3.77	1.58
150	8.93	-	-	-	-	3.01	2.09
200	8.25	-	-	-	-	2.53	2.53
250	7.65	-	-	-	-	1.85	2.63
300	7.30	-	-	-	-	1.15	2.67
400	6.94	-	-	-	-	.66	2.98
500	6.38	-	-	-	-	.54	3.04
600	5.84	-	-	-	-	.35	3.16
700	5.34	-	-	-	-	.40	3.16
800	4.85	-	-	-	-	.40	3.16
1000	4.13	-	-	-	-	.50	3.16

STATION 113.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°12'N 115°39'W June 22, 1950 0909 GCT Wire angle: 18°
 Sounding: 800 fms. Depth of observation: 1,161 m. Weather: overcast
 Sea: rough Wind: 300°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	16.31	-	-	-	-	5.47	.37
10	16.20	-	-	-	-	5.35	.39
20	16.01	-	-	-	-	5.54	.40
30	15.87	-	-	-	-	5.56	.40
50	15.10	-	-	-	-	5.55	.43
75	12.91	-	-	-	-	5.25	.69
100	10.90	-	-	-	-	4.85	.96
150	9.10	-	-	-	-	3.10	1.94
200	8.39	-	-	-	-	2.34	2.18
250	7.89	-	-	-	-	1.90	2.34
300	7.67	-	-	-	-	1.55	2.52
400	7.40	-	-	-	-	.74	2.90
500	7.00	-	-	-	-	.38	3.07
600	6.03	-	-	-	-	.36	3.17
700	5.35	-	-	-	-	.41	3.16
800	5.04	-	-	-	-	.47	3.16
1000	4.20	-	-	-	-	.57	3.16

STATION 117.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°37'N 115°16'W June 22, 1950 0239 GCT Wire angle: 10°
 Sounding: 100 fms. Depth of observation: 148 m. Weather: partly cloudy
 Sea: rough Wind: 270°, force 2

0	15.95	-	-	-	-	5.76	.32
10	12.79	-	-	-	-	4.08	1.03
20	11.00	-	-	-	-	3.00	1.55
30	10.43	-	-	-	-	2.98	1.62
50	9.90	-	-	-	-	3.07	1.66
75	9.61	-	-	-	-	1.90	2.17
100	9.78	-	-	-	-	1.57	2.30
150	(10.01)	-	-	-	-	(.83)	(2.56)

STATION 120.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°03'N 114°54'W June 21, 1950 2114 GCT Wire angle: 3°
 Sounding: 45 fms. Depth of observation: 60 m. Weather: haze
 Sea: smooth Wind: 320°

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	15.39	-	-	-	-	4.79	.41
10	14.72	-	-	-	-	4.79	.47
20	14.14	-	-	-	-	4.70	.58
30	13.83	-	-	-	-	4.44	.73
50	11.54	-	-	-	-	-	-

STATION 120.45 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°43'N 115°33'W June 21, 1950 1547 GCT Wire angle: 7°
 Sounding: 1,200 fms. Depth of observation: 1,222 m. Weather: overcast
 Sea: rough Wind: 320°, force 2

0	14.42	-	-	-	-	5.55	.33
10	14.32	-	-	-	-	5.95	.39
20	13.88	-	-	-	-	5.81	.54
30	13.65	-	-	-	-	4.88	.73
50	10.17	-	-	-	-	3.66	1.50
75	10.06	-	-	-	-	2.34	1.98
100	10.10	-	-	-	-	1.74	2.19
150	9.32	-	-	-	-	1.05	2.30
200	10.13	-	-	-	-	.45	2.60
250	9.74	-	-	-	-	.25	2.74
300	9.15	-	-	-	-	.24	2.80
400	8.19	-	-	-	-	.23	2.88
500	7.03	-	-	-	-	.24	3.00
600	6.37	-	-	-	-	.26	3.04
700	5.75	-	-	-	-	.31	3.04
800	5.16	-	-	-	-	.39	3.04
1000	4.20	-	-	-	-	.58	3.03

STATION 120.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°33'N 115°52.5'W June 21, 1950 0438 GCT Wire angle: 12°
 Sounding: 2,300 fms. Depth of observation: 1,183 m. Weather: overcast
 Sea: rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	15.80	-	-	-	-	(5.72)	.31
10	15.51	-	-	-	-	5.72	.31
20	15.39	-	-	-	-	6.08	.31
30	14.30	-	-	-	-	6.07	.32
50	12.20	-	-	-	-	4.92	.91
75	10.45	-	-	-	-	4.10	1.38
100	9.87	-	-	-	-	2.87	1.77
150	10.04	-	-	-	-	1.55	2.31
200	9.18	-	-	-	-	1.38	2.51
250	8.78	-	-	-	-	1.19	2.58
300	8.50	-	-	-	-	.92	2.64
400	7.51	-	-	-	-	.48	2.88
500	6.80	-	-	-	-	.27	2.98
600	6.10	-	-	-	-	.27	3.00
700	5.53	-	-	-	-	.28	3.10
800	5.00	-	-	-	-	.34	3.17
1000	4.22	-	-	-	-	.58	3.15

STATION 120.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°13'N 116°31.5'W June 20, 1950 1920 GCT Wire angle: 5°
 Sounding: 2,100 fms. Depth of observation: 1,219 m. Weather: overcast
 Sea: rough Wind: 320°, force 3

0	16.84	-	-	-	-	5.03	(.40)
10	16.83	-	-	-	-	5.00	.46
20	16.82	-	-	-	-	5.14	.59
30	16.80	-	-	-	-	5.22	.60
50	16.12	-	-	-	-	5.30	.57
75	14.97	-	-	-	-	5.33	.52
100	13.38	-	-	-	-	5.35	.70
150	9.78	-	-	-	-	3.75	1.65
200	9.02	-	-	-	-	2.58	2.06
250	8.58	-	-	-	-	1.87	2.36
300	8.17	-	-	-	-	1.27	2.62
400	7.35	-	-	-	-	.65	2.89
500	6.46	-	-	-	-	.40	3.02
600	5.68	-	-	-	-	.34	3.15
700	5.14	-	-	-	-	.33	3.15
800	4.72	-	-	-	-	.40	3.16
1000	3.98	-	-	-	-	.68	3.14

STATION 123.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°18'N 114°51.5'W June 12, 1950 1757, 1817 GCT Wire angle: 17°,
 20° Sounding: 350 fms. Depth of observation: 197, 352 m. Weather: haze
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	14.26	33.68	25.13	284.0	.0000	5.04	-
10	12.52	33.62	25.44	255.2	.0271	4.50	-
20	11.35	33.62	25.66	234.5	.0516	4.15	-
30	11.01	33.63	25.73	228.1	.0749	3.88	-
50	10.72	33.67	25.81	220.7	.1200	3.25	-
75	10.68	34.21	26.24	180.7	.1704	1.65	-
100	10.98	34.41	26.34	171.6	.2147	.81	-
150	10.91	34.47	26.40	167.2	.300	.33	-
200	10.68	34.51	26.47	161.4	.383	.68	-
250	10.16	34.51	26.56	153.7	.462	.44	-
300	9.95	34.52	26.61	150.5	.539	-	-

STATION 123.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°18'N 114°51.5'W June 20, 1950 0653 GCT Wire angle: 17°
 Sounding: 250 fms. Depth of observation: 401 m. Weather: clear
 Sea: rough Wind: 320°, force 2-3

0	11.78	-	-	-	-	4.45	1.36
10	11.76	-	-	-	-	4.43	1.44
20	10.80	-	-	-	-	4.15	1.66
30	10.77	-	-	-	-	3.10	1.88
50	10.76	-	-	-	-	2.10	2.36
75	10.86	-	-	-	-	.63	2.87
100	10.76	-	-	-	-	.44	3.00
150	10.65	-	-	-	-	.27	3.00
200	10.32	-	-	-	-	.40	3.02
250	10.18	-	-	-	-	.40	3.01
300	9.61	-	-	-	-	(.21)	(3.03)
400	8.67	-	-	-	-	-	-

STATION 123.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°58'N 115°30.5'W June 20, 1950 0007 GCT Wire angle: 48°
 Sounding: 2,000 fms. Depth of observation: 616 m. Weather: overcast
 Sea: very rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P ($\mu\text{g at/L}$)
0	15.51	-	-	-	-	5.65	.42
10	15.30	-	-	-	-	5.60	.52
20	14.50	-	-	-	-	5.56	.90
30	13.70	-	-	-	-	5.15	1.00
50	13.00	-	-	-	-	4.84	1.03
75	12.45	-	-	-	-	4.45	1.18
100	10.35	-	-	-	-	3.55	1.53
150	9.68	-	-	-	-	2.02	2.13
200	9.28	-	-	-	-	1.25	2.46
250	9.04	-	-	-	-	.55	2.70
300	8.37	-	-	-	-	.50	2.82
400	7.13	-	-	-	-	.36	2.92
500	6.53	-	-	-	-	.25	3.05
600	5.86	-	-	-	-	.25	3.04

STATION 123.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°38.5'N 116°09'W June 19, 1950 1755 GCT Wire angle: 16°
 Sounding: 2,100 fms. Depth of observation: 1,157 m. Weather: overcast
 Sea: very rough Wind: 320°, force 4

0	17.67	-	-	-	-	5.20	.35
10	17.67	-	-	-	-	5.35	.36
20	17.66	-	-	-	-	5.21	.32
30	17.65	-	-	-	-	5.21	.32
50	17.61	-	-	-	-	5.55	.35
75	15.45	-	-	-	-	5.36	.39
100	13.00	-	-	-	-	5.24	.54
150	10.50	-	-	-	-	4.00	1.50
200	11.12	-	-	-	-	1.26	2.31
250	10.27	-	-	-	-	.95	2.51
300	9.35	-	-	-	-	.80	2.63
400	8.06	-	-	-	-	.60	2.80
500	7.04	-	-	-	-	.36	2.96
600	6.29	-	-	-	-	.24	3.11
700	5.59	-	-	-	-	.26	3.13
800	4.97	-	-	-	-	.30	3.13
1000	4.16	-	-	-	-	.58	3.11

STATION 127.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°43.5'N 114°29.5'W June 18, 1950 2030 GCT Wire angle: 37°
 Sounding: 1,650 fms. Depth of observation: 1,059 m. Weather: partly cloudy
 Sea: very rough Wind: 290°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	15.50	-	-	-	-	5.75	.34
10	15.48	-	-	-	-	5.76	.33
20	15.31	-	-	-	-	5.66	.33
30	15.26	-	-	-	-	5.52	.36
50	12.80	-	-	-	-	5.05	.62
75	10.99	-	-	-	-	3.77	1.51
100	10.28	-	-	-	-	2.73	1.88
150	10.35	-	-	-	-	1.25	2.36
200	10.18	-	-	-	-	.70	2.58
250	9.60	-	-	-	-	.46	2.69
300	9.12	-	-	-	-	.35	2.76
400	8.20	-	-	-	-	.26	2.92
500	7.37	-	-	-	-	.29	3.09
600	6.40	-	-	-	-	.35	3.12
700	5.60	-	-	-	-	.35	3.12
800	5.12	-	-	-	-	.45	3.12
1000	4.35	-	-	-	-	.55	3.11

STATION 130.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°22'N 113°54'W June 14, 1950 1853 GCT Wire angle: 10°
 Sounding: 110 fms. Depth of observation: 56 m. Weather: clear
 Sea: very rough Wind: 340°, force 5

0	13.95	33.75	25.25	272.7	.0000	5.75	.82
10	13.75	33.77	25.31	267.6	.0271	5.70	.85
20	13.45	33.72	25.33	265.6	.0539	4.50	1.14
30	11.79	33.71	25.65	235.8	.0791	3.10	1.56
50	11.61	34.05	25.94	208.0	.1237	1.82	2.11
75	11.38	34.36	26.23	181.7	.1727	.54	2.55
100	11.37	34.44	26.29	176.3	.2177	.43	2.53
150	11.12	34.57	26.44	163.5	.303	.35	-

STATION 130.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°09'N 114°07.5'W June 14, 1950 2226 GCT Wire angle: 13°
 Sounding: 1,100 fms. Depth of observation: 1,380 m. Weather: clear
 Sea: very rough Wind: 340°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	17.16	-	-	-	-	5.21	.53
10	17.17	-	-	-	-	5.67	.55
20	16.70	-	-	-	-	5.67	.59
30	16.50	-	-	-	-	5.60	.69
50	14.65	-	-	-	-	4.55	1.20
75	11.25	-	-	-	-	3.05	2.00
100	11.60	-	-	-	-	1.48	2.36
150	11.19	-	-	-	-	.82	2.53
200	10.69	-	-	-	-	.30	2.57
250	10.30	-	-	-	-	.28	2.61
300	9.79	-	-	-	-	.28	2.69
400	8.30	-	-	-	-	.22	2.80
500	7.25	-	-	-	-	.20	2.93
600	6.56	-	-	-	-	.25	3.04
700	5.87	-	-	-	-	.30	3.06
800	5.35	-	-	-	-	.32	3.13
1000	4.48	-	-	-	-	.52	3.11

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