

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

Physical and Chemical Data
Cruise 23
Marine Life Research Program

8-23 March 1951

Prepared by
Marine Life Research Program Division of Oceanography

Sponsored by
Marine Research Committee

Reference 52-9
20 February 1952

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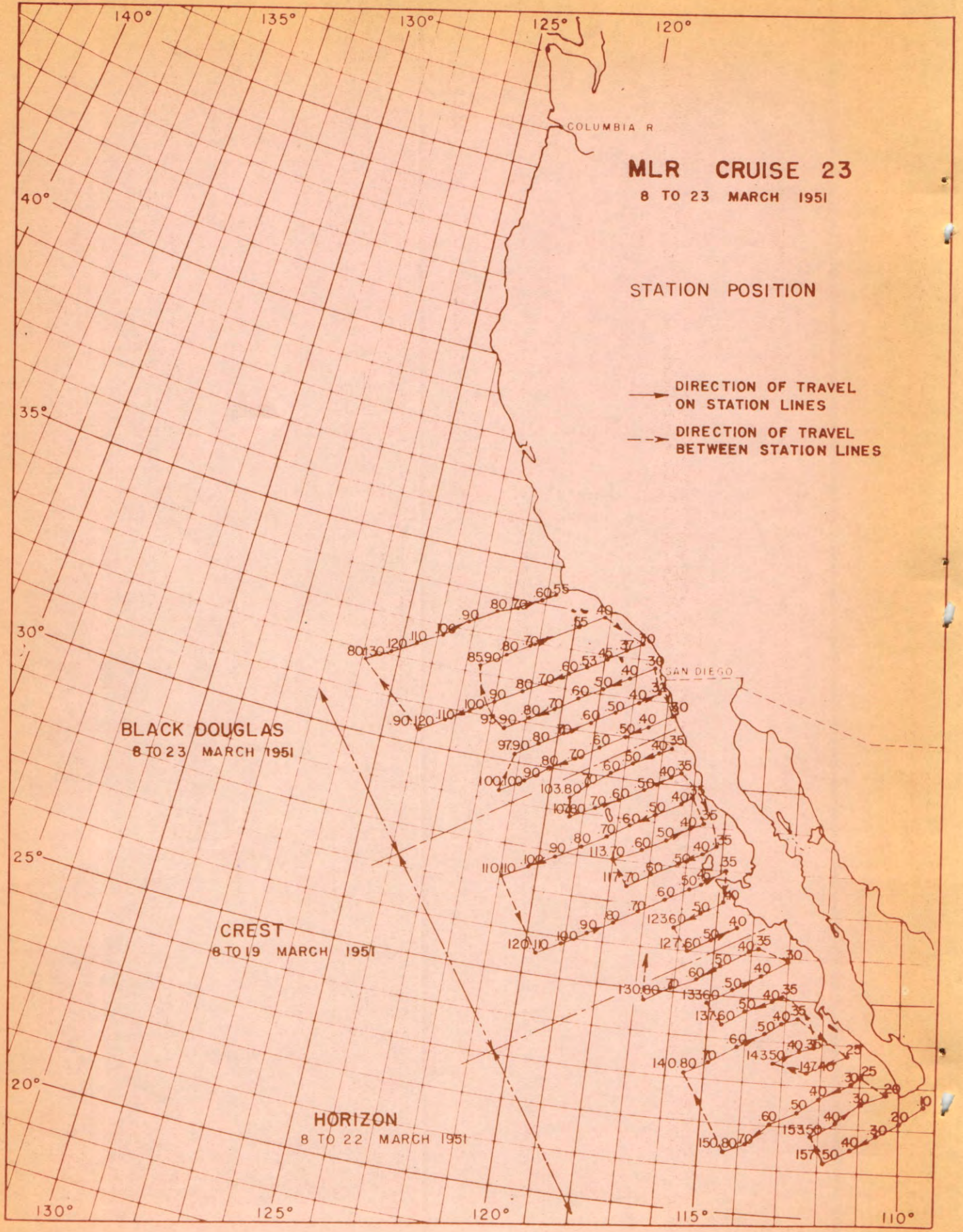
15 February 1952

CONTENTS

List of Figuresii
Introductioniii
Personneliv
Tabulated Data1
Distribution List. 68

FIGURES

1. MLR Cruise 23. Station Positions
2. Horizontal Distribution of Dynamic Height Anomaly (0 over 1000 σ -bar) Corrected for Tidal Effect
3. Horizontal Distribution of Temperature at the Surface
4. Horizontal Distribution of Salinity at the Surface
5. Horizontal Distribution of Temperature at 30 Meters



BLACK DOUGLAS
8 TO 23 MARCH 1951

CREST
8 TO 19 MARCH 1951

HORIZON
8 TO 22 MARCH 1951

MLR CRUISE 23
8 TO 23 MARCH 1951

STATION POSITION

—> DIRECTION OF TRAVEL
ON STATION LINES
- - -> DIRECTION OF TRAVEL
BETWEEN STATION LINES

INTRODUCTION

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

Data are presented in the form of tabulated values at standard depths and of charts of horizontal distributions. On the charts of horizontal distributions a circle is drawn around the station dot if the quantity 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 that the messenger was released. When more than one cast was made on a station, both messenger times 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 85.80, 93.90, 103.60, 107.70, 110.50, 113.70, 130.40, 137.50, 140.40, 140.80, 147.25, 150.40, 150.50 and 150.80, it was difficult to ascertain depths of observations on those stations. In processing data given in this report and in all previous reports of this series an effort has been made to correct for pretripping whenever it has occurred.

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

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

Oceanographers

Horrer, Paul L., Assistant Oceanographer
Lewis, George J., Jr., Associate in Oceanography
Reid, Joseph L., Jr., Associate in Oceanography

Marine Superintendent

Stose, Clemens W.

Ships' Captains

Brandal, G., MV CREST
Joelson, S.M., MV BLACK DOUGLAS
Miller, F., MV HORIZON

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Smith, Alan C., Marine Technician, Scripps Institution
Thraillkill, James R., Marine Biologist
Colter, John C., Chemistry Aid
Eshleman, John J., Biological Aid
Fast, Thomas N., Student, Stanford University

MV CREST

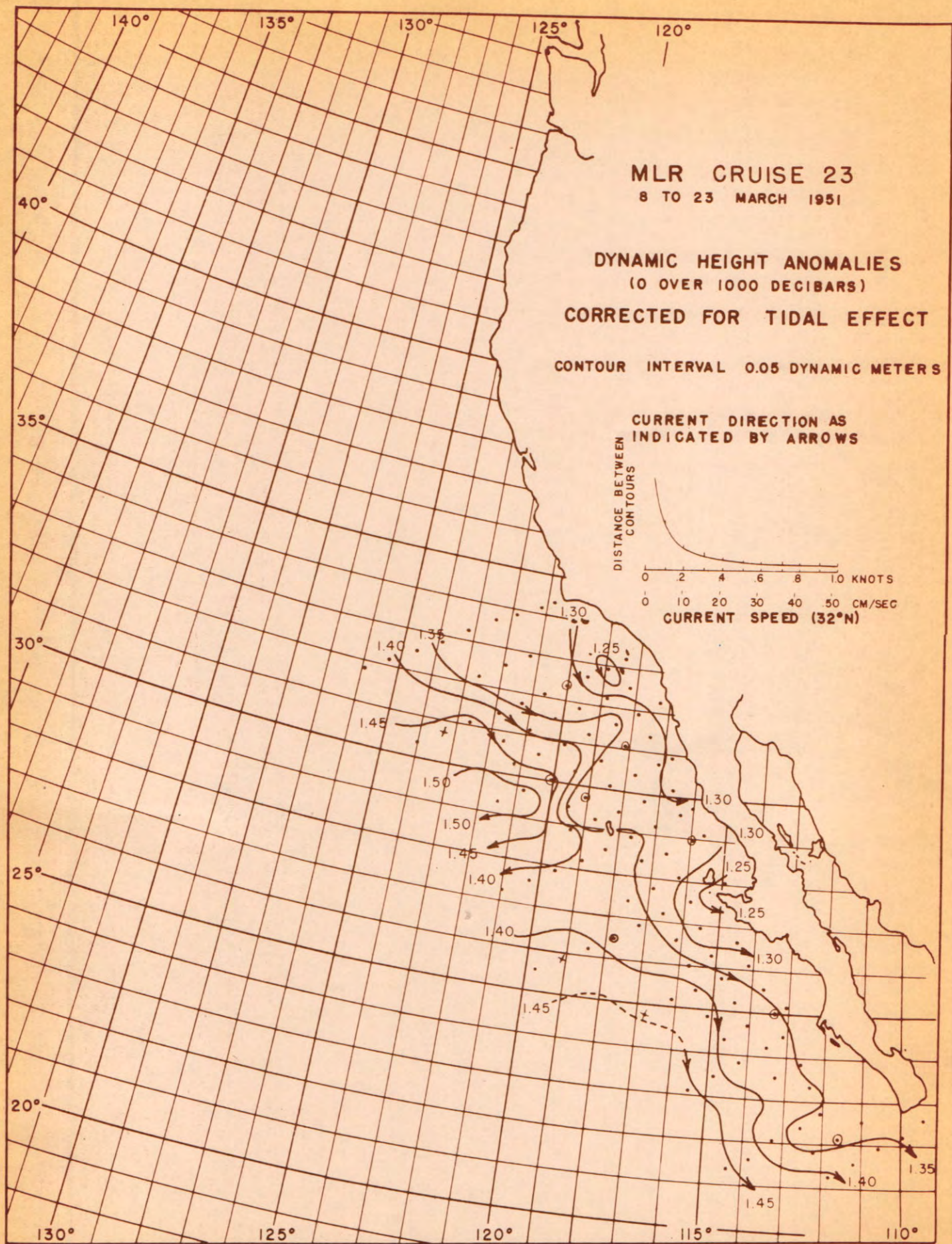
Gossett, David A., Marine Technician
Herreshoff, Karl F., Marine Technician, Chemical
Jellison, Donald L., Marine Technician
Mooney, John E., Marine Technician
Berner, Leo D., Jr., Student
Walser, Carl W., Marine Biologist, U.S. Fish and Wildlife Service

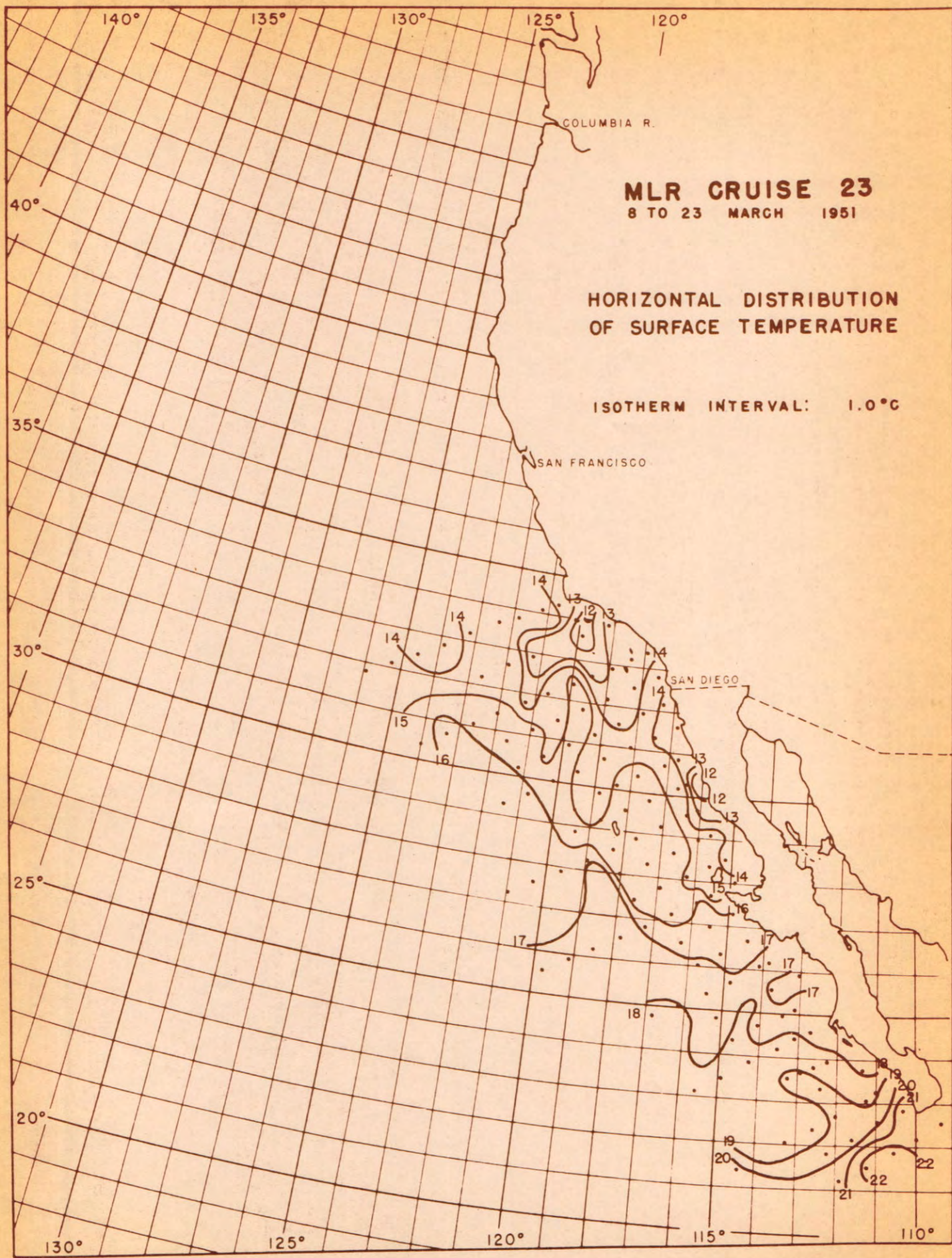
MV HORIZON

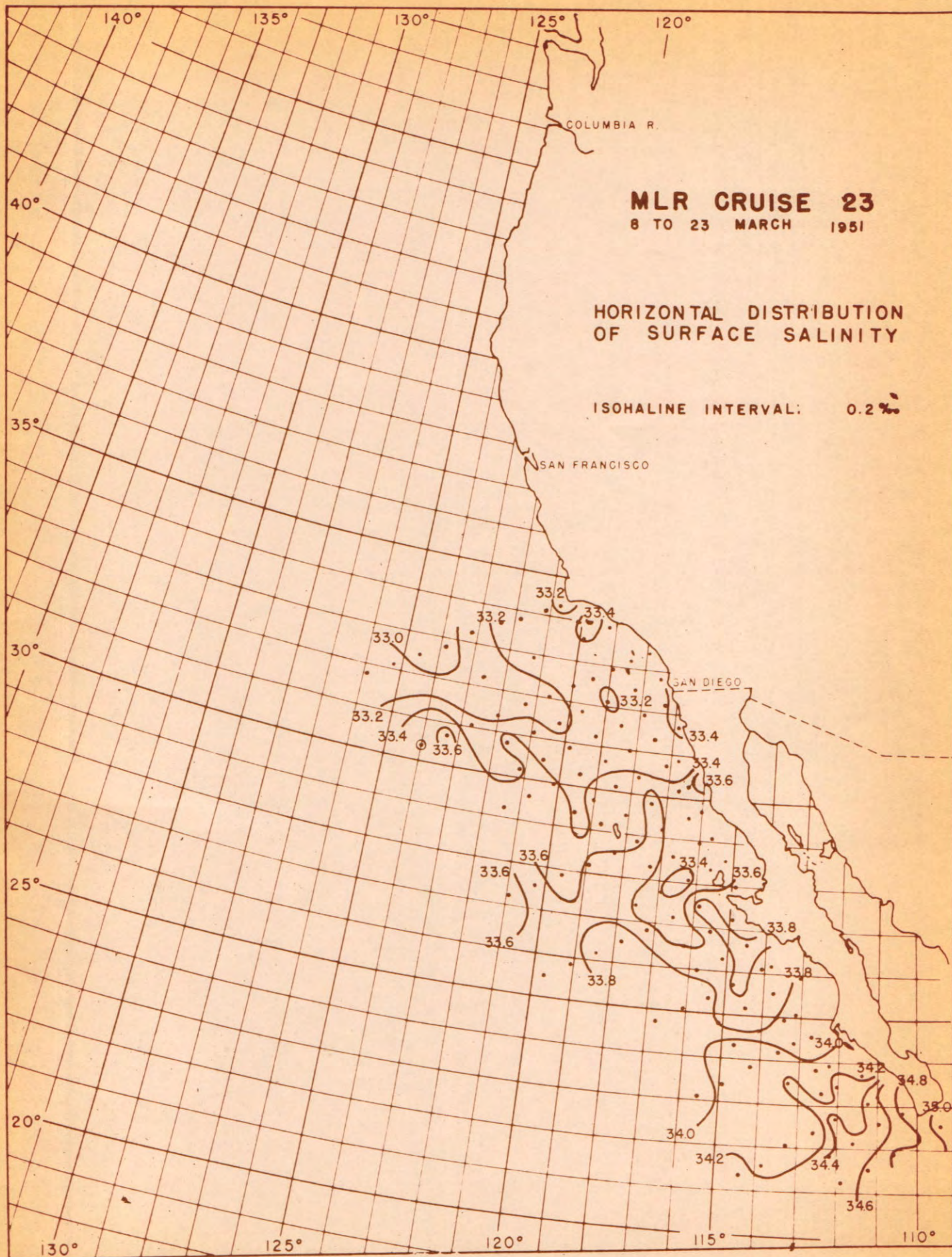
Cunningham, Leonard M., Jr., Marine Technician
Anderson, Robert F., Marine Technician
Rockman, John N., Marine Technician, Chemical
Bramson, Jay H., U.S.C.G., Student
Chew, Frank, Student
Counts, Robert C., Marine Biologist, U.S. Fish & Wildlife Service

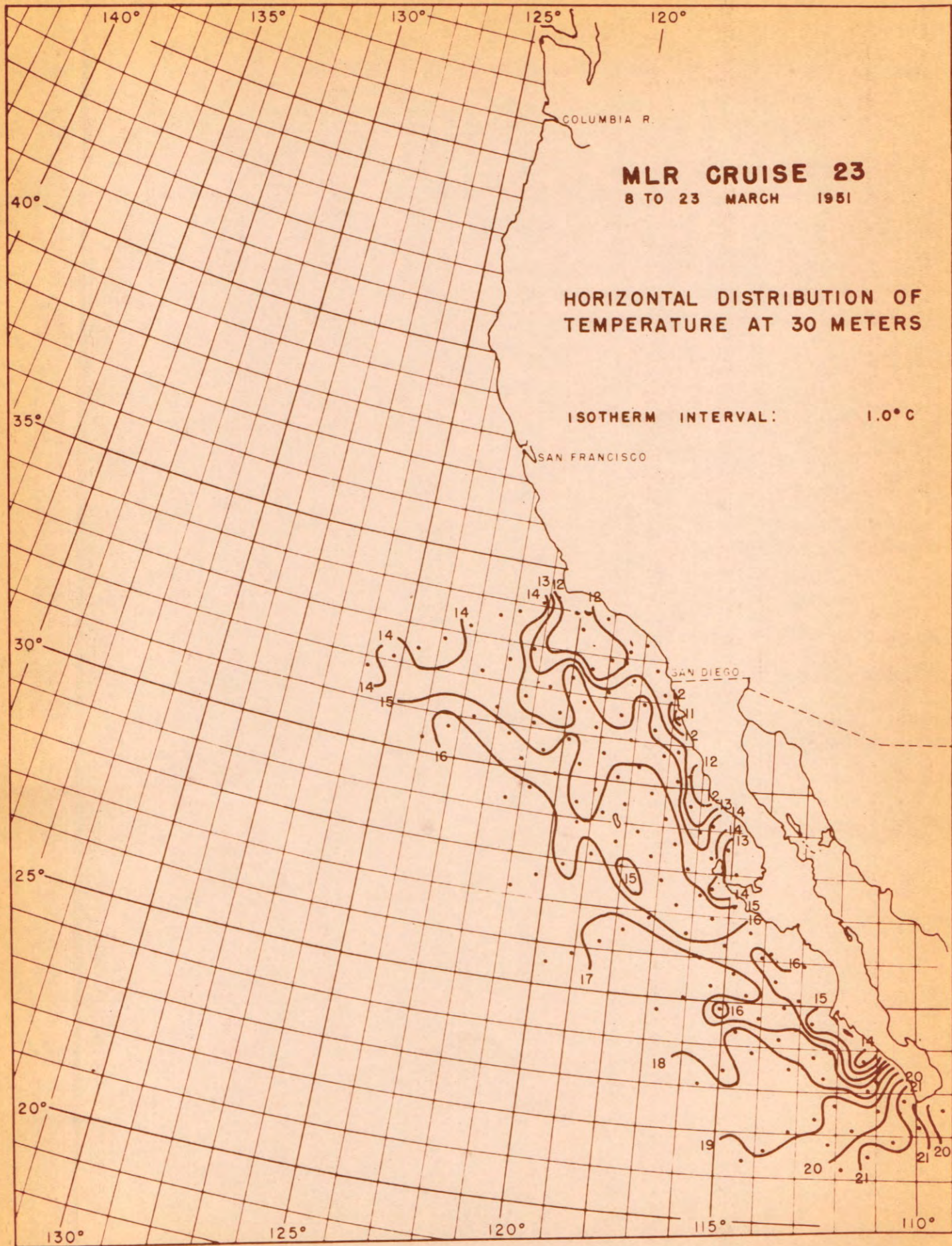
PERSONNEL PARTICIPATING IN PREPARATION OF DATA

Barney, Ruth M., Stenographer
Barstow, Mary C., Laboratory Technician
Beckwith, Warren W., Jr., Senior Marine Technician
Berkey, Max L., Jr., Marine Technician
Brown, Curthie F., Engineering Aid
Browne, Geneva S., Engineering Aid
Coolidge, Richard N., Marine Technician
Cunningham, Leonard M., Jr., Senior Marine Technician
Gilkey, Robert W., Marine Technician
Gossett, David A., Senior Marine Technician
Haddow, Robert W., Marine Technician
Herreshoff, Karl F., Marine Technician, Chemical
Hutchins, Dorsey M., Typist-Clerk
James, Lois L., Laboratory Technician
Kaatz, E. James, Marine Technician, Chemical
Kirk, Robert W., Laboratory Technician
Kelin, Hans T., Principal Laboratory Technician
Larimore, Wayne H., Marine Technician
Love, Cuthbert M., Research Assistant
Madden, Dorothy A., Laboratory Technician
Mao, Han-Lee, Research Assistant
McClendon, Robert I., Marine Technician
McCoy, Willis M., Engineering Aid
Mead, Richard V., Principal Marine Technician
Messner, Gordon P., Marine Technician
Metzger, June C., Typist-Clerk
Miller, Bernadette L., Engineering Aid
Payne, Miles M., Marine Technician
Profsner, Ruth O., Engineering Aid
Ratty, Donald K., Marine Technician
Ridgely, Johanna W., Laboratory Technician
Sease, Jean R., Marine Technician
Smith, Alan C., Senior Marine Technician
Whitney, Alice D., Senior Engineering Aid
Wilburn, Virginia A., Statistician
Wilkes, Frances C., Engineering Aid
Worrall, Charles G., Senior Marine Technician









STATION 80.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°19'N 120°48'W March 23, 1951 1615 GCT Wire angle: 13°
 Sounding: 440 fms. Depth of observation: 677 m. Weather: cloudy
 Sea: rough Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P ₀₄ -P ($\mu\text{g at/L}$)
0	13.57	33.13	24.85	311.2	.0000	5.71	-
10	13.57	33.11	24.84	312.8	.0313	5.84	-
20	11.70	33.09	25.18	279.8	.0611	5.80	-
30	11.66	33.09	25.19	279.5	.0892	5.74	-
50	11.64	33.33	25.38	261.9	.1436	5.89	-
75	10.21	33.57	25.82	220.4	.2042	4.88	-
100	9.95	33.81	26.05	198.9	.2569	3.70	-
150	8.82	34.09	26.46	161.4	.348	2.43	-
200	8.51	34.10	26.51	156.8	.428	2.01	-
250	7.98	34.16	26.64	145.4	.504	1.58	-
300	7.55	34.23	26.76	134.8	.574	1.25	-
400	6.82	34.22	26.85	127.0	.706	.89	-
500	6.14	34.37	27.06	108.1	.825	.64	-
600	5.57	34.40	27.15	99.9	.930	.54	-

STATION 80.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°09'N 121°09'W March 23, 1951 1153 GCT Wire angle: 14°
 Sounding: 1,280 fms. Depth of observation: 1,124 m. Weather: partly cloudy
 Sea: very rough Wind: 320°, force 2

0	14.45	33.25	24.76	319.6	.0000	(5.90)	-
10	14.45	33.10	24.65	331.0	.0327	5.90	-
20	14.45	33.16	24.69	326.7	.0657	5.78	-
30	14.45	33.24	24.75	321.2	.0982	5.75	-
50	14.45	33.31	24.81	316.5	.1623	5.77	-
75	10.63	33.04	25.34	266.5	.2356	5.69	-
100	9.37	33.33	25.77	225.3	.2974	4.73	-
150	8.71	33.83	26.27	178.9	.399	3.40	-
200	7.86	34.09	26.60	147.9	.481	2.73	-
250	7.42	34.14	26.71	138.8	.554	2.14	-
300	7.03	34.16	26.77	132.9	.622	1.62	-
400	6.30	34.19	26.90	122.1	.751	.96	-
500	5.63	34.35	27.11	103.0	.864	.54	-
600	5.18	34.42	27.22	93.4	.963	.53	-
700	4.84	34.38	27.23	93.1	1.057	.54	-
800	4.52	34.40	27.28	88.7	1.149	.57	-
1000	3.93	34.51	27.42	75.6	1.315	.76	-

STATION 80.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°49'N 121°51'W March 23, 1951 0203, 0411 GCT Wire angle: 14°, 20° Sounding: 2,200 fms. Depth of observation: 1,169 m., 1,506 m. Weather: overcast Sea: very rough Wind: 360°, 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	14.50	33.28	24.77	318.5	.0000	5.72	-
10	14.51	33.13	24.66	329.9	.0326	5.72	-
20	14.49	33.30	24.79	317.3	.0650	5.71	-
30	14.45	33.30	24.80	316.8	.0969	5.72	-
50	14.31	33.15	24.71	325.5	.1614	5.75	-
75	12.83	33.10	24.98	301.0	.2402	5.86	-
100	10.85	33.22	25.44	257.3	.3104	5.01	-
150	9.17	33.74	26.13	192.6	.424	3.81	-
200	8.40	33.99	26.44	163.1	.513	3.11	-
250	7.61	34.11	26.65	144.0	.591	2.78	-
300	6.77	34.13	26.79	131.5	.660	2.50	-
400	5.72	34.06	26.87	124.5	.789	1.47	-
500	5.37	34.19	27.01	111.6	.908	.71	-
600	4.87	34.24	27.11	103.0	1.016	.60	-
700	4.54	34.33	27.22	93.2	1.115	.50	-
800	4.25	34.43	27.33	83.3	1.205	.39	-
1000	3.74	34.57	27.49	69.0	1.359	.73	-
1200	3.35	34.61	27.56	62.9	1.492	.96	-
1500	2.79	34.63	27.63	56.8	1.674	1.25	-
2000	2.13	34.64	27.69	50.9	1.947	1.82	-

STATION 80.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°39'N 122°24'W March 22, 1951 2129 GCT Wire angle: 14° Sounding: 2,220 fms. Depth of observation: 1,158 m. Weather: overcast Sea: high Wind: 330°, force 5

0	14.49	33.25	24.75	320.6	.0000	5.70	-
10	14.47	33.13	24.67	329.1	.0326	5.70	-
20	14.40	33.16	24.70	325.7	.0655	5.72	-
30	14.43	33.21	24.74	322.9	.0980	5.71	-
50	14.48	33.26	24.76	320.9	.1627	5.67	-
75	14.42	33.26	24.78	320.2	.2433	5.66	-
100	11.30	33.08	25.25	275.2	.3182	5.38	-
150	9.18	33.77	26.15	190.6	.435	3.83	-
200	8.33	33.90	26.38	168.7	.526	3.07	-
250	7.57	34.00	26.57	151.3	.607	2.62	-
300	6.89	34.07	26.72	137.6	.679	2.26	-
400	5.88	34.18	26.94	117.4	.808	1.37	-
500	5.39	34.28	27.08	105.1	.920	.75	-
600	4.78	34.35	27.20	93.7	1.020	.60	-
700	4.47	34.45	27.32	83.3	1.110	.50	-
800	4.22	34.52	27.40	76.5	1.190	.47	-
1000	3.78	34.61	27.52	66.5	1.335	.88	-

STATION 80.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°15'N 123°11'W March 22, 1951 1504 GCT Wire angle: 20°
 Sounding: 2,340 fms. Depth of observation: 1,126 m. Weather: cloudy
 Sea: very rough Wind: 360°, 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	14.06	33.12	24.74	321.4	.0000	5.80	-
10	14.05	33.12	24.75	321.5	.0323	5.80	-
20	14.05	33.12	24.75	321.7	.0646	5.77	-
30	14.05	33.12	24.75	322.0	.0969	5.76	-
50	13.97	33.10	24.75	322.3	.1616	5.79	-
75	12.54	33.02	24.97	301.4	.2400	5.84	-
100	11.10	33.06	25.27	273.5	.3123	5.65	-
150	9.17	33.54	25.97	207.5	.433	4.25	-
200	8.37	33.96	26.42	165.0	.527	3.18	-
250	7.67	34.01	26.57	152.1	.607	2.62	-
300	6.90	34.04	26.70	139.9	.681	2.23	-
400	5.79	34.19	26.96	115.6	.809	1.18	-
500	5.32	34.28	27.09	104.4	.920	.71	-
600	4.83	34.38	27.23	92.1	1.019	.46	-
700	4.57	34.41	27.28	87.5	1.110	.47	-
800	4.36	34.43	27.32	84.6	1.197	.49	-
1000	3.37	34.45	27.40	77.7	1.361	.70	-

STATION 80.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°49'N 123°54'W March 22, 1951 0708 GCT Wire angle: 2°
 Sounding: 2,450 fms. Depth of observation: 1,185 m. Weather: cloudy
 Sea: very rough Wind: 360°, force 4

0	13.44	32.95	24.74	321.9	.0000	5.87	-
10	13.45	32.94	24.73	322.9	.0324	5.88	-
20	13.32	32.98	24.79	317.6	.0645	5.87	-
30	13.02	33.03	24.89	308.6	.0960	5.85	-
50	12.61	33.08	25.00	297.7	.1569	5.86	-
75	10.44	32.94	25.29	270.6	.2783	5.81	-
100	9.27	33.23	25.71	231.1	.2914	4.86	-
150	8.70	33.73	26.19	186.0	.396	3.28	-
200	8.11	33.92	26.43	164.2	.485	2.50	-
250	7.42	34.09	26.67	142.5	.562	1.99	-
300	6.82	34.16	26.80	130.1	.631	1.56	-
400	5.89	34.11	26.89	122.8	.758	.97	-
500	5.33	34.26	27.07	106.0	.873	.69	-
600	4.84	34.28	27.15	99.7	.977	.49	-
700	4.51	34.43	27.30	85.4	1.071	.40	-
800	4.25	34.52	27.40	76.7	1.153	.40	-
1000	3.73	34.55	27.48	70.3	1.301	.67	-

STATION 80.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°29'N 124°34.5'W March 21, 1951 0014 GCT Wire angle: 3° Sounding: 2,400 fms. Depth of observation: 1,153 m. Weather: cloudy Sea: moderzte Wind: 360°, force 2

Depth (m)	T (°C)	S (%)	σ_t (mg/cm ³)	10^8	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	13.93	32.96	24.65	330.6	.0000	5.88	-
10	13.84	32.99	24.69	326.7	.0330	5.82	-
20	13.77	33.00	24.71	325.0	.0657	5.79	-
30	13.68	33.01	24.74	322.8	.0982	5.78	-
50	13.38	32.94	24.74	322.6	.1631	5.78	-
75	11.75	33.06	25.15	284.2	.2394	5.83	-
100	9.62	33.13	25.58	243.9	.3058	5.91	-
150	8.81	33.81	26.24	181.9	.413	5.02	-
200	8.12	33.97	26.47	160.7	.499	3.44	-
250	7.41	34.05	26.64	145.3	.576	2.98	-
300	6.81	34.11	26.76	133.7	.647	2.65	-
400	6.22	34.20	26.92	120.4	.775	1.54	-
500	5.39	34.20	27.02	111.1	.891	.77	-
600	4.80	34.33	27.19	95.5	.996	.51	-
700	4.46	34.40	27.28	87.0	1.088	.49	-
800	4.19	34.46	27.36	80.5	1.172	.49	-
1000	3.62	34.53	27.47	70.5	1.324	.52	-

STATION 80.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°09'N 125°15.5'W March 21, 1951 1755 GCT Wire angle: 7° Sounding: 2,440 fms. Depth of observation: 1,170 m. Weather: cloudy Sea: moderate Wind: 360°, force 2

0	14.05	33.01	24.66	329.3	.0000	5.87	-
10	14.05	32.99	24.65	331.0	.0332	5.82	-
20	14.05	33.01	24.66	329.8	.0663	5.78	-
30	14.05	33.08	24.71	325.0	.0992	5.77	-
50	14.02	33.12	24.75	321.9	.1642	5.77	-
75	13.87	32.96	24.66	331.2	.2463	5.82	-
100	12.50	32.84	24.84	314.5	.3275	5.89	-
150	9.06	33.18	25.71	232.4	.465	5.03	-
200	8.43	33.80	26.29	177.8	.568	3.51	-
250	7.81	33.96	26.51	157.7	.653	3.03	-
300	7.10	34.03	26.66	143.3	.729	2.70	-
400	5.96	34.05	26.83	128.2	.866	1.59	-
500	5.35	34.17	27.00	112.9	.987	.80	-
600	5.03	34.28	27.12	101.9	1.096	.53	-
700	4.59	34.32	27.21	94.4	1.195	.50	-
800	4.28	34.35	27.26	89.6	1.288	.51	-
1000	3.69	34.47	27.42	75.7	1.455	.49	-

STATION 80.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°49'N 125°56'W March 21, 1951 1000, 1123 GCT Wire
 angle: 8°, 3° Sounding: 2,240 fms. Depth of observation: 1,173 m.,
 1,264 m. Weather: cloudy Sea: moderate Wind: 330°, 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	14.11	33.02	24.66	329.7	.0000	5.76	-
10	13.92	33.01	24.69	326.9	.0330	5.77	-
20	13.85	33.10	24.77	319.2	.0654	5.65	-
30	13.75	33.10	24.79	317.6	.0974	5.70	-
50	13.42	32.99	24.77	319.7	.1614	5.88	-
75	12.38	32.98	24.97	301.6	.2395	5.64	-
100	10.83	33.00	25.27	273.2	.3118	5.56	-
150	9.45	33.40	25.82	222.2	.437	4.75	-
200	8.58	33.81	26.27	179.2	.538	3.85	-
250	7.91	33.96	26.49	159.2	.623	2.98	-
300	7.33	34.03	26.63	146.4	.700	2.24	-
400	6.35	34.12	26.84	128.0	.838	1.32	-
500	5.78	34.22	26.99	114.6	.960	.72	-
600	5.25	34.33	27.14	101.0	1.069	.43	-
700	4.72	34.38	27.24	91.6	1.166	.35	-
800	4.29	34.44	27.33	83.0	1.255	.40	-
1000	3.78	34.49	27.43	75.2	1.415	.62	-
1200	3.32	34.51	27.49	69.9	1.562	.82	-

STATION 85.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°57'N 119°10.5'W March 17, 1951 2209 GCT Wire
 angle: 5° Sounding: 410 fms. Depth of observation: 686 m. Weather:
 cloudy Sea: moderate Wind: calm

0	13.65	33.35	25.01	296.5	.0000	6.03	-
10	13.15	33.30	25.07	290.8	.0295	6.06	-
20	12.75	33.32	25.16	282.1	.0582	6.02	-
30	12.27	33.38	25.30	268.9	.0859	5.80	-
50	10.96	33.46	25.60	240.4	.1371	4.60	-
75	9.66	33.58	25.92	210.8	.1938	3.80	-
100	9.27	33.78	26.14	190.4	.2443	3.25	-
150	8.79	33.98	26.38	169.0	.335	2.54	-
200	8.74	34.04	26.43	164.6	.419	2.25	-
250	7.86	34.15	26.65	144.4	.497	1.84	-
300	7.81	34.23	26.72	138.7	.568	1.52	-
400	6.91	34.26	26.87	125.3	.701	.79	-
500	6.31	34.29	26.97	116.3	.823	.52	-
600	5.85	34.34	27.07	108.0	.936	.31	-

STATION 85.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°37'N 119°52'W March 17, 1951 1702 GCT Wire angle: 1°
 Sounding: 120 fms. Depth of observation: 188 m. Weather: partly cloudy
 Sea: rough Wind: 090°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg.cm ³)	$10^5 \delta$	ΔD (dyn.n.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	11.68	33.46	25.47	251.9	.0000	5.85	.89
10	11.68	33.46	25.47	252.1	.0253	5.77	.87
20	11.68	33.46	25.47	252.3	.0506	5.75	.87
30	11.69	33.46	25.47	252.7	.0760	5.75	.88
50	11.13	33.54	25.63	237.7	.1253	5.10	1.14
75	9.57	33.80	26.11	193.0	.1794	3.22	1.85
100	9.34	33.88	26.21	184.0	.2268	2.88	1.97
150	9.09	34.04	26.38	169.0	.316	2.30	2.19

STATION 85.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°57'N 121°14.5'W March 16, 1951 2227 GCT Wire
 angle: 7° Sounding: 2000 fms. Depth of observation: 1,169 m. Weather:
 cloudy Sea: high Wind: 330°, force 6

0	12.36	33.24	25.17	280.4	.0000	6.05	.66
10	12.40	33.17	25.11	286.5	.0285	6.04	.70
20	12.36	33.25	25.18	280.0	.0569	6.04	.74
30	12.26	33.25	25.20	278.3	.0849	6.00	.79
50	11.10	33.17	25.35	264.3	.1395	5.40	1.03
75	10.03	33.49	25.79	223.4	.2008	4.55	1.40
100	9.59	33.66	26.00	204.2	.2546	3.73	1.70
150	8.56	33.95	26.39	167.8	.348	2.62	2.04
200	8.17	34.03	26.51	157.0	.430	2.50	2.17
250	7.75	34.08	26.61	148.0	.507	2.11	2.31
300	7.23	34.14	26.73	137.0	.579	1.40	2.50
400	6.41	34.23	26.91	120.7	.708	.93	2.89
500	5.81	34.28	27.03	110.5	.825	.61	3.03
600	5.29	34.37	27.17	98.4	.930	.45	3.11
700	4.86	34.40	27.24	91.9	1.027	.45	3.15
800	4.48	34.43	27.31	85.9	1.116	.47	3.16
1000	3.84	34.50	27.43	75.2	1.279	.93	3.22

STATION 85.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°37'N 121°55.5'W March 16, 1951 1356 GCT Wire angle: 35° Sounding: 2,260 fms. Depth of observation: 984 m. Weather: over-cast Sea: very rough 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	14.75	33.21	24.67	328.6	.0000	(6.55)	.48
10	14.75	33.22	24.68	328.1	.0330	6.54	.51
20	14.74	33.22	24.68	328.2	.0659	5.70	.53
30	14.74	33.25	24.70	326.2	.0988	5.88	.51
50	14.74	33.31	24.75	322.3	.1639	5.68	.55
75	14.72	33.16	24.64	333.7	.2464	5.79	.56
100	13.15	33.19	24.98	301.0	.3263	5.62	.82
150	10.12	33.60	25.86	218.1	.457	4.10	1.56
200	8.40	33.86	26.34	172.9	.555	3.25	1.96
250	7.66	34.01	26.57	151.9	.637	2.79	2.17
300	7.03	34.10	26.73	137.3	.710	2.43	2.40
400	6.08	34.24	26.97	115.6	.838	1.35	2.84
500	5.65	34.31	27.07	106.3	.949	.67	3.07
600	5.36	34.34	27.13	101.6	1.054	.40	3.20
700	4.99	34.45	27.26	89.7	1.151	.42	3.18
800	4.55	34.52	27.37	80.3	1.237	.42	3.16
1000	(3.97)	(34.46)	(27.38)	(79.7)	(1.399)	(.63)	(3.11)

STATION 85.90 Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°17'N 122°37'W March 16, 1951 0607 GCT Wire angle: 22° Sounding: 2,300 fms. Depth of observation: 1,079 m. Weather: cloudy Sea: rough Wind: 320°, force 3

0	14.44	33.17	24.70	325.4	.0000	5.70	.61
10	14.41	33.12	24.67	328.7	.0328	5.72	.63
20	14.40	33.12	24.67	328.7	.0658	5.88	.63
30	14.41	33.17	24.71	325.6	.0987	5.88	.61
50	14.43	33.26	24.77	319.8	.1636	5.84	.54
75	14.35	33.20	24.74	323.2	.2444	5.75	.63
100	13.57	33.17	24.88	310.6	.3241	5.66	.75
150	9.55	33.37	25.78	225.4	.459	4.65	1.56
200	8.61	33.92	26.36	171.6	.559	3.50	1.94
250	7.83	34.10	26.61	147.7	.640	2.98	2.13
300	7.22	34.09	26.69	140.6	.712	2.57	2.34
400	6.29	34.07	26.80	130.9	.849	1.67	2.82
500	5.76	34.32	27.07	107.0	.969	.80	3.04
600	5.37	34.43	27.20	95.2	1.071	.50	3.15
700	4.98	34.47	27.28	88.2	1.164	.40	3.19
800	4.54	34.43	27.30	86.8	1.252	.45	3.18
1000	3.80	34.44	27.38	79.1	1.420	.73	3.18

STATION 90.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°24.5'N 117°55'W March 18, 1951 0709 GCT Wire angle:
4° Sounding: 340 fms. Depth of observation: 580 m. Weather: clear
Sea: moderate Wind: 320°, 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 ($\mu\text{g at/L}$)
0	13.77	33.35	24.98	298.8	.0000	6.17	-
10	13.74	33.28	24.93	303.7	.0303	6.24	-
20	13.73	33.31	24.96	301.5	.0606	6.15	-
30	12.07	33.36	25.32	266.9	.0892	5.85	-
50	10.67	33.45	25.65	236.3	.1397	4.71	-
75	9.90	33.64	25.93	210.2	.1959	3.90	-
100	9.50	33.70	26.04	199.9	.2475	3.30	-
150	9.28	34.07	26.37	169.9	.341	2.29	-
200	8.78	34.15	26.51	157.2	.423	1.74	-
250	8.47	34.23	26.62	147.5	.500	1.32	-
300	7.64	34.24	26.75	135.5	.571	1.16	-
400	6.91	34.23	26.85	127.6	.704	.79	-
500	6.34	34.28	26.96	117.4	.827	.65	-

STATION 90.37 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°11'N 118°23.5'W March 18, 1951 1204 GCT Wire angle:
13° Sounding: 650 fms. Depth of observation: 1,169 m. Weather: partly
cloudy Sea: moderate Wind: 160°, force 1

0	13.40	33.26	24.99	298.4	.0000	5.96	-
10	13.30	33.24	24.99	298.1	.0299	6.20	-
20	13.05	33.40	25.17	281.8	.0591	6.16	-
30	12.10	33.40	25.35	264.6	.0865	5.85	-
50	10.35	33.40	25.67	234.7	.1367	4.69	-
75	9.72	33.62	25.94	208.8	.1924	3.76	-
100	9.16	33.78	26.16	188.5	.2424	3.27	-
150	8.72	34.09	26.47	159.9	.330	2.55	-
200	8.65	34.14	26.52	155.9	.410	1.87	-
250	8.19	34.16	26.61	148.2	.486	1.49	-
300	7.28	34.18	26.76	134.5	.557	1.17	-
400	6.66	34.22	26.87	124.7	.688	.60	-
500	6.09	34.28	27.00	114.0	.808	.51	-
600	5.64	34.49	27.22	94.1	.913	.47	-
700	5.23	34.48	27.26	90.8	1.007	.41	-
800	4.87	34.45	27.28	89.5	1.098	.36	-
1000	4.23	34.43	27.33	85.1	1.274	.55	-

STATION 90.45 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°54.5'N 118°56'W March 18, 1951 1743 GCT Wire angle:
 0° Sounding: 950 fms. Depth of observation: 1,184 m. Weather: clear
 Sea: moderate Wind: 080°, 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	13.65	33.38	25.03	294.3	.0000	5.97	-
10	13.32	33.35	25.07	290.3	.0294	5.97	-
20	13.03	33.36	25.14	284.3	.0582	5.97	-
30	11.80	33.40	25.41	259.0	.0855	5.45	-
50	9.98	33.58	25.87	215.3	.1331	4.00	-
75	9.29	33.75	26.12	192.2	.1844	3.29	-
100	9.04	33.86	26.24	180.8	.2313	2.86	-
150	8.40	34.08	26.51	155.8	.316	2.25	-
200	7.97	34.20	26.67	141.3	.391	1.80	-
250	7.62	34.20	26.72	137.4	.461	1.45	-
300	7.28	34.20	26.77	133.1	.529	1.15	-
400	6.64	34.29	26.93	119.3	.656	.70	-
500	6.05	34.31	27.02	111.4	.773	.64	-
600	5.59	34.34	27.11	104.4	.881	.40	-
700	5.17	34.43	27.23	93.6	.981	.41	-
800	4.81	34.51	27.33	84.4	1.071	.44	-
1000	4.05	34.51	27.41	77.0	1.235	.59	-

STATION 90.53 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°38.5'N 119°29'W March 18, 1951 2301 GCT Wire angle:
 2° Sounding: 730 fms. Depth of observation: 1,186 m. Weather: clear
 Sea: moderate Wind: calm

0	12.75	33.39	25.22	276.4	.0000	5.97	-
10	12.20	33.29	25.25	273.8	.0276	6.01	-
20	12.02	33.31	25.29	269.5	.0549	5.99	-
30	11.93	33.35	25.34	265.0	.0817	5.85	-
50	11.27	33.42	25.52	248.7	.1334	5.20	-
75	10.00	33.62	25.90	213.3	.1914	3.80	-
100	9.60	33.91	26.19	185.8	.2416	3.32	-
150	8.85	33.91	26.31	175.1	.332	2.59	-
200	8.45	34.07	26.50	158.1	.416	2.06	-
250	7.92	34.18	26.66	143.1	.492	1.64	-
300	7.31	34.22	26.78	132.3	.562	1.23	-
400	6.75	34.23	26.87	125.2	.691	.77	-
500	6.28	34.33	27.01	112.7	.811	.58	-
600	5.77	34.33	27.07	107.6	.922	.36	-
700	5.25	34.37	27.17	99.1	1.027	.40	-
800	4.70	34.42	27.26	89.6	1.122	.44	-
1000	4.12	34.47	27.37	80.8	1.294	.58	-

STATION 90.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°25'N 119°57.5'W March 19, 1951 0330 GCT Wire angle:
5° Sounding: 560 fms. Depth of observation: 882 m. Weather: clear
Sea: very rough 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	15.44	33.26	24.56	339.2	.0000	5.65	-
10	15.34	33.24	24.56	338.9	.0340	5.73	-
20	14.90	33.24	24.66	329.9	.0676	5.82	-
30	14.40	33.24	24.77	320.1	.1002	5.91	-
50	13.85	33.15	24.81	316.2	.1642	5.90	-
75	12.12	33.13	25.14	285.8	.2399	5.73	-
100	10.42	33.17	25.47	253.9	.3078	5.16	-
150	8.68	33.77	26.23	182.9	.418	3.40	-
200	8.18	33.93	26.43	164.5	.505	2.67	-
250	7.76	34.05	26.59	150.3	.584	2.16	-
300	7.29	34.11	26.70	139.9	.658	1.76	-
400	6.17	34.14	26.87	124.5	.791	1.22	-
500	5.38	34.19	27.01	111.8	.910	.79	-
600	5.25	34.43	27.22	93.6	1.014	.48	-
700	4.80	34.41	27.25	90.5	1.107	.49	-
800	4.64	34.42	27.28	88.8	1.197	-	-

STATION 90.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°04.5'N 120°39'W March 19, 1951 0941, 1126 GCT Wire
angle: 1°, 1° Sounding: 2,100 fms. Depth of observation: 1,187 m., 2,676 m.
Weather: clear Sea: rough Wind: 330°, force 2

0	14.27	33.17	24.74	322.0	.0000	5.83	-
10	14.07	33.18	24.79	317.5	.0321	5.90	-
20	14.00	33.19	24.81	315.6	.0639	5.95	-
30	13.21	33.22	24.99	298.6	.0947	5.98	-
50	12.65	33.26	25.13	285.4	.1534	5.94	-
75	11.20	33.22	25.38	262.8	.2223	5.10	-
100	9.55	33.42	25.81	221.4	.2832	4.30	-
150	8.83	33.86	26.27	178.6	.384	3.05	-
200	8.25	33.96	26.44	163.3	.470	2.66	-
250	7.67	34.06	26.61	148.3	.549	2.11	-
300	7.10	34.14	26.75	135.2	.620	1.46	-
400	6.31	34.22	26.92	120.3	.749	.92	-
500	5.69	34.25	27.02	111.2	.865	.59	-
600	5.34	34.30	27.10	104.4	.974	.44	-
700	4.96	34.41	27.24	92.3	1.074	.41	-
800	4.53	34.51	27.36	80.8	1.161	.51	-
1000	3.87	34.44 *	27.38	80.0	1.324	.78	-
1200	3.37	34.44 *	27.43	75.5	1.481	.99	-
1500	2.77	34.68 *	27.67	53.0	1.676	1.28	-
2000	2.07	34.63 *	27.69	50.8	1.940	1.98	-
2500	1.79	34.60 *	27.69	51.0	2.199	2.17	-

* Salinity value questionable because of possible malfunctioning of automatic titrating machine.

STATION 90.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°45'N 121°19'W March 19, 1951 1816 GCT Wire angle: 20°
Sounding: 2,100 fms. Depth of observation: 1,089 m. Weather: partly
cloudy Sea: moderate Wind: 330°, 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	13.79	33.10	24.78	317.5	.0000	5.76	-
10	13.63	33.00	24.74	322.0	.0321	5.84	-
20	13.40	33.05	24.82	314.3	.0640	5.89	-
30	13.20	33.09	24.90	307.7	.0953	5.91	-
50	12.84	33.12	24.99	299.0	.1562	5.94	-
75	11.28	33.10	25.27	272.9	.2281	5.60	-
100	10.21	33.11	25.46	254.9	.2945	5.19	-
150	8.93	33.66	26.10	195.0	.408	3.49	-
200	8.28	33.92	26.41	166.6	.499	2.94	-
250	7.55	34.11	26.66	142.9	.577	2.50	-
300	6.84	34.11	26.76	134.1	.647	2.08	-
400	5.78	34.10	26.89	122.1	.776	1.25	-
500	5.62	34.33	27.09	104.4	.890	.65	-
600	5.40	34.40	27.17	97.8	.992	.54	-
700	4.73	34.37	27.23	92.5	1.088	.54	-
800	4.31	34.40	27.30	86.4	1.178	.58	-
1000	3.79	34.49	27.43	75.3	1.342	.70	-

STATION 90.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°25'N 121°59'W March 19, 1951 2352 GCT Wire angle: 10°
Sounding: 2,180 fms. Depth of observation: 1,176 m. Weather: cloudy
Sea: rough Wind: 330°, force 2

0	15.35	33.19	24.52	342.5	.0000	5.71	-
10	15.05	33.20	24.59	335.8	.0341	5.73	-
20	14.85	33.21	24.65	331.1	.0675	5.75	-
30	14.71	33.20	24.67	329.4	.1007	5.76	-
50	14.62	33.13	24.63	333.1	.1673	5.77	-
75	14.61	33.15	24.65	332.1	.2509	5.76	-
100	12.64	33.03	24.96	303.1	.3308	5.75	-
150	9.77	33.42	25.78	225.8	.464	4.38	-
200	8.41	33.91	26.38	169.4	.563	3.44	-
250	7.62	33.99	26.56	152.8	.645	2.77	-
300	7.03	34.04	26.68	141.8	.719	2.17	-
400	6.11	34.12	26.87	124.9	.853	1.44	-
500	5.33	34.21	27.03	109.8	.972	.83	-
600	5.04	34.30	27.14	100.6	1.078	.56	-
700	4.75	34.42	27.27	89.1	1.173	.50	-
800	4.38	34.48	27.36	81.2	1.259	.50	-
1000	3.84	34.49	27.42	76.0	1.418	.80	-

STATION 90.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°04.5'N 122°40'W March 20, 1951 0543 GCT Wire angle:
10° Sounding: 2,240 fms. Depth of observation: 1,175 m. Weather: cloudy
Sea: rough Wind: 350°, 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	15.74	33.28	24.51	344.0	.0000	5.55	-
10	15.73	33.26	24.49	345.6	.0346	5.21	-
20	15.68	33.35	24.57	338.3	.0690	5.48	-
30	15.65	33.37	24.59	336.4	.1028	5.57	-
50	15.91	33.40	24.56	340.4	.1708	5.45	-
75	16.06	33.49	24.59	337.9	.2561	5.44	-
100	16.26	33.53	24.58	339.9	.3414	5.45	-
150	10.25	33.17	25.50	252.0	.490	5.17	-
200	8.97	33.71	26.13	192.6	.602	3.80	-
250	8.22	33.97	26.45	163.0	.692	2.97	-
300	7.54	34.04	26.61	148.8	.770	2.43	-
400	6.33	34.10	26.82	129.4	.911	1.57	-
500	5.53	34.21	27.01	112.2	1.032	.80	-
600	4.89	34.24	27.11	103.2	1.141	.50	-
700	4.59	34.34	27.22	93.0	1.240	.46	-
800	4.38	34.44	27.32	84.2	1.330	.47	-
1000	3.78	34.56	27.48	70.2	1.486	.66	-

STATION 90.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°44.5'N 123°20'W March 20, 1951 1149 GCT Wire angle:
6° Sounding: 2,200 fms. Depth of observation: 1,184 m. Weather: cloudy
Sea: moderate Wind: 360°, force 2

0	16.66	33.72	24.63	331.8	.0000	5.21	-
10	16.63	33.66	24.59	336.0	.0335	5.35	-
20	16.64	33.66	24.59	336.5	.0673	5.00	-
30	16.64	33.66	24.59	336.6	.1011	5.00	-
50	16.59	33.68	24.62	334.6	.1685	5.48	-
75	16.59	33.68	24.62	335.3	.2527	5.38	-
100	15.55	33.53	24.74	324.5	.3357	5.45	-
150	11.48	33.55	25.58	245.1	.479	4.55	-
200	9.40	33.86	26.18	188.3	.588	3.88	-
250	8.35	34.00	26.46	162.7	.677	3.23	-
300	7.54	34.04	26.61	148.8	.755	2.56	-
400	6.00	34.02	26.80	130.9	.896	2.12	-
500	5.42	34.19	27.00	112.4	1.019	1.00	-
600	4.81	34.32	27.18	96.3	1.124	.54	-
700	4.59	34.46	27.32	84.2	1.215	.46	-
800	4.44	34.56	27.41	76.0	1.296	.44	-
1000	3.77	34.49	27.43	75.2	1.449	.71	-

STATION 90.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°24.5'N 124°00.5'W March 20, 1951 1644, 1830 GCT
 Wire angle: 5°, 4^u Sounding: 2,250 fms. Depth of observation: 1,172 m.,
 1,647 m. Weather: overcast Sea: moderate Wind: 350°, 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	15.90	33.37	24.54	341.0	.0000	5.52	-
10	15.89	33.33	24.51	343.9	.0344	5.55	-
20	15.88	33.39	24.56	339.6	.0687	5.57	-
30	15.87	33.39	24.63	333.3	.1025	5.56	-
50	15.81	33.35	24.54	341.9	.1703	5.55	-
75	15.81	33.39	24.57	339.7	.2560	5.57	-
100	13.20	33.13	24.93	306.4	.3373	5.77	-
150	10.50	33.35	25.60	242.9	.476	5.06	-
200	8.93	33.76	26.18	188.4	.584	3.84	-
250	8.10	33.97	26.47	161.2	.672	3.25	-
300	7.42	34.05	26.63	146.3	.750	2.74	-
400	6.24	34.08	26.82	129.6	.889	1.23	-
500	5.78	34.22	26.99	114.6	1.012	.68	-
600	5.20	34.37	27.16	98.6	1.120	.37	-
700	4.72	34.40	27.25	90.2	1.215	.41	-
800	4.14	34.42	27.33	82.9	1.302	.49	-
1000	3.75	34.47	27.41	76.4	1.463	.73	-
1200	3.29	34.53	27.51	68.0	1.609	1.15	-
1500	2.72	34.59	27.60	59.1	1.803	1.45	-

STATION 93.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°50'N 117°31.5'W March 14, 1951 0354 GCT Wire angle:
 4° Sounding: 480 fms. Depth of observation: 782 m. Weather: partly
 cloudy Sea: slight Wind: 150°, force 1

0	14.96	33.35	24.73	322.8	.0000	5.90	.58
10	13.67	33.28	24.95	302.3	.0314	6.17	.67
20	12.95	33.34	25.14	284.3	.0608	6.07	.92
30	12.35	33.36	25.27	272.0	.0888	5.75	1.48
50	10.55	33.39	25.62	238.8	.1401	4.63	1.85
75	10.00	33.73	25.98	205.1	.1959	3.29	2.00
100	9.74	34.03	26.26	179.3	.2443	2.69	2.08
150	9.04	34.13	26.45	161.8	.330	2.43	2.14
200	8.86	34.22	26.55	153.2	.409	1.83	2.41
250	8.60	34.22	26.59	150.3	.486	1.47	2.47
300	8.20	34.26	26.68	142.2	.560	1.39	2.68
400	7.34	34.29	26.83	129.1	.696	.85	2.88
500	6.51	34.34	26.99	115.3	.820	.50	3.03
600	5.87	34.41	27.13	102.9	.930	.48	3.05
700	5.37	34.42	27.19	97.0	1.031	.45	3.09
800	(5.00)	(34.43)	(27.25)	(92.5)	(1.126)	-	-

STATION 93.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°30'N 118°12.5'W March 14, 1951 0944 GCT Wire angle:
1° Sounding: 940 fms. Depth of observation: 1,186 m. Weather: clear
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 ($\mu\text{g at/L}$)
0	13.97	(33.24)	24.85	310.9	.0000	5.87	.39
10	13.93	33.22	24.85	311.8	.0313	5.95	.38
20	13.62	33.21	24.90	306.6	.0623	5.90	.43
30	13.24	33.21	24.98	299.6	.0927	5.82	.57
50	12.10	33.33	25.29	270.1	.1500	5.71	.72
75	11.92	33.44	25.42	259.2	.2165	5.54	.89
100	10.35	33.48	25.73	229.8	.2780	4.40	1.36
150	9.05	33.89	26.26	179.5	.381	3.27	1.85
200	8.05	34.03	26.53	155.3	.465	2.90	2.03
250	7.72	34.10	26.63	146.1	.541	2.33	2.28
300	7.41	34.16	26.72	138.1	.613	1.45	2.55
400	6.67	34.22	26.87	124.7	.745	.95	2.86
500	6.14	34.31	27.01	112.6	.865	.55	3.01
600	5.64	34.36	27.11	103.8	.974	.57	3.14
700	5.22	34.44	27.23	93.5	1.074	.54	3.21
800	4.85	34.49	27.31	86.2	1.165	.50	3.24
1000	4.08	34.51	27.41	77.4	1.330	.80	3.24

STATION 93.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°10'N 118°53.5'W March 14, 1951 1544 GCT Wire angle:
8° Sounding: 700 fms. Depth of observation: 1,172 m. Weather: clear
Sea: slight Wind: calm

0	13.48	33.16	24.89	307.2	.0000	5.90	.48
10	13.38	33.17	24.92	304.9	.0307	5.95	.57
20	13.34	33.26	25.00	297.6	.0610	5.95	.57
30	13.27	33.28	25.03	295.1	.0907	5.92	.58
50	11.17	33.13	25.31	268.4	.1474	5.44	.98
75	9.95	33.28	25.64	237.5	.2110	4.96	1.32
100	9.84	33.44	25.78	224.6	.2691	4.33	1.57
150	8.73	34.03	26.42	164.5	.367	3.15	2.01
200	8.34	34.19	26.61	147.6	.446	2.23	2.28
250	7.99	34.21	26.68	141.7	.518	1.70	2.56
300	7.64	34.22	26.74	137.0	.589	1.38	2.76
400	6.99	34.30	26.89	123.3	.720	.95	2.96
500	6.18	34.35	27.04	110.1	.838	.50	3.14
600	5.58	34.37	27.13	102.1	.945	.36	3.24
700	5.17	34.48	27.27	89.9	1.042	.40	3.32
800	4.80	34.53	27.35	82.7	1.129	.52	3.37
1000	4.09	34.48	27.39	79.7	1.293	.85	3.30

STATION 93.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°50'N 119°34'W March 14, 1951 2125 GCT Wire angle: 3°
Sounding: 1,600 fms. Depth of observation: 1,177 m. Weather: partly
cloudy Sea: moderate Wind: 080°, 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 ($\mu\text{g at/L}$)
0	15.44	33.34	24.62	333.4	.0000	5.66	.57
10	15.01	33.22	24.62	333.5	.0335	5.65	.50
20	14.98	33.33	24.71	325.1	.0665	5.65	.54
30	14.92	33.34	24.73	323.3	.0991	5.67	.56
50	14.47	33.07	24.62	334.4	.1652	5.72	.58
75	12.66	33.24	25.12	287.6	.2434	5.81	.74
100	10.88	33.18	25.40	260.8	.3124	5.38	1.04
150	9.72	33.72	26.02	202.8	.429	3.86	1.38
200	8.84	33.96	26.35	172.1	.523	4.14	1.64
250	7.90	34.08	26.73	136.7	.601	3.50	1.95
300	6.94	34.12	26.76	134.6	.670	2.80	2.30
400	6.46	33.97	26.70	140.5	.808	1.51	2.93
500	5.54	34.15	26.96	116.8	.938	.73	3.19
600	5.25	34.42	27.21	94.3	1.045	.47	3.24
700	4.92	34.49	27.30	86.0	1.136	.50	3.28
800	4.54	34.52	27.37	80.1	1.219	.55	3.31
1000	3.96	34.61	27.50	68.6	1.370	.68	3.26

STATION 93.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°29'N 120°14'W March 15, 1951 0306 GCT Wire angle: 5°
Sounding: 2,180 fms. Depth of observation: 1,180 m. Weather: partly
cloudy Sea: rough Wind: calm

0	14.94	33.17	24.60	335.4	.0000	5.80	.59
10	14.49	33.22	24.73	322.9	.0331	5.83	.55
20	13.80	33.27	24.91	305.8	.0646	5.78	.57
30	13.27	33.27	25.02	295.8	.0948	5.76	.61
50	12.78	33.16	25.03	295.0	.1542	5.95	.70
75	11.98	33.29	25.29	271.4	.2254	5.80	.80
100	10.25	33.34	25.64	238.5	.2895	4.63	1.41
150	8.58	33.93	26.37	169.5	.392	3.20	1.99
200	7.95	34.05	26.56	152.1	.473	2.50	2.35
250	7.46	34.10	26.67	142.3	.547	2.03	2.52
300	6.90	34.12	26.76	134.0	.617	1.71	2.68
400	5.57	34.03	26.86	124.7	.747	1.29	3.00
500	5.30	34.24	27.06	107.1	.864	.66	3.20
600	5.19	34.30	27.12	102.4	.970	.42	3.23
700	4.89	34.41	27.24	91.4	1.068	.45	3.27
800	4.50	34.49	27.35	81.7	1.155	.50	3.28
1000	3.98	34.56	27.46	72.4	1.311	.79	3.24

STATION 93.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°10'N 120°54.5'W March 15, 1951 1015 GCT Wire angle: 12° Sounding: 2,240 fms. Depth of observation: 1,146 m. Weather: clear
Sea: rough Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (ng/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	15.26	33.30	24.63	332.6	.0000	5.65	.44
10	15.17	33.14	24.52	342.7	.0339	5.68	.44
20	14.87	33.22	24.65	330.7	.0677	5.72	.43
30	14.32	33.21	25.76	320.7	.1004	5.79	.50
50	14.19	33.12	24.72	325.2	.1653	5.82	.48
75	13.10	33.13	24.95	303.9	.2444	5.70	.63
100	11.67	33.16	25.24	276.0	.3173	5.62	.86
150	9.55	33.38	25.78	225.2	.444	4.66	1.53
200	8.57	33.93	26.37	170.2	.543	2.91	2.16
250	7.87	34.09	26.60	143.9	.623	2.52	2.30
300	7.17	34.14	26.74	136.1	.695	2.39	2.42
400	5.84	34.08	26.87	124.5	.827	1.49	2.84
500	5.40	34.25	27.06	107.6	.944	.62	3.09
600	4.94	34.25	27.11	103.1	1.050	.49	3.23
700	4.68	34.35	27.22	93.4	1.149	.50	3.30
800	4.45	34.45	27.32	84.2	1.239	.52	3.32
1000	3.84	34.51	27.43	74.5	1.399	.76	3.23

STATION 93.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°50'N 121°35'W March 15, 1951 1554 GCT Wire angle: 3°
Sounding: 2,260 fms. Depth of observation: .979 m. Weather: clear
Sea: moderate Wind: calm

0	15.85	33.49	24.64	331.1	.0000	5.63	.50
10	15.85	33.38	24.56	339.4	.0337	5.57	.46
20	15.82	33.42	24.60	336.1	.0676	5.57	.47
30	15.78	33.42	24.60	335.6	.1013	5.62	.51
50	15.76	33.39	24.59	337.8	.1690	5.60	.58
75	15.76	33.49	24.66	331.2	.2531	5.61	.56
100	13.50	33.35	25.04	296.1	.3320	5.67	.68
150	11.66	33.64	25.62	241.6	.467	4.94	1.29
200	8.75	33.89	26.31	175.9	.572	3.99	1.68
250	8.06	33.96	26.47	161.3	.657	3.61	1.92
300	7.58	34.01	26.58	151.4	.736	3.27	2.13
400	6.24	34.08	26.82	129.6	.878	1.79	2.67
500	5.63	34.19	26.98	115.0	1.001	.96	2.89
600	5.15	34.32	27.14	100.5	1.110	.60	3.03
700	4.75	34.38	27.24	92.1	1.207	.48	3.13
800	4.43	34.40	27.29	87.7	1.298	.48	3.19
1000	(3.89)	(34.54)	(27.45)	(72.9)	(1.460)	(.96)	(3.10)

STATION 97.32 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 32°11.5'N 117°17'W March 13, 1951 0221 GCT Wire angle:
24° Sounding: 760 fms. Depth of observation: 1,101 m. Weather: clear
Sea: moderate Wind: 340°, 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	13.54	33.40	25.07	290.7	.0000	6.04	.53
10	13.40	33.33	25.04	293.5	.0293	5.10	.52
20	12.69	33.39	25.23	275.7	.0579	6.00	.56
30	12.40	33.41	25.30	269.3	.0853	5.95	.98
50	10.38	33.45	25.70	231.6	.1356	4.15	1.48
75	9.73	33.63	25.95	208.3	.1909	4.02	1.59
100	9.17	33.83	26.20	185.0	.2404	3.21	1.84
150	8.83	34.07	26.44	163.1	.328	2.50	2.21
200	8.52	34.24	26.62	146.6	.406	2.18	2.41
250	8.20	34.31	26.72	137.6	.478	1.65	2.60
300	7.82	34.30	26.77	133.6	.546	1.17	2.75
400	7.00	34.27	28.87	125.8	.677	.99	2.97
500	6.34	34.36	27.03	111.4	.796	.51	3.10
600	5.86	34.40	27.12	103.6	.905	.47	3.20
700	5.30	34.42	27.20	96.0	1.006	.50	3.25
800	4.89	34.43	27.26	91.1	1.100	.50	3.27
1000	(4.24)	(34.45)	(27.35)	(83.7)	(1.277)	.59	(3.20)

STATION 97.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°55.5'N 117°50'W March 12, 1951 2112 GCT Wire angle:
13° Sounding: 760 fms. Depth of observation: 1,126 m. Weather: clear
Sea: rough Wind: 340°, force 2

0	14.40	33.37	24.87	309.8	.0000	5.79	.53
10	14.20	33.28	24.84	312.7	.0313	5.82	.57
20	14.17	33.55	25.05	292.7	.0616	5.81	.56
30	14.14	33.55	25.06	292.4	.0910	5.81	.54
50	14.10	33.33	24.90	308.1	.1514	5.83	.55
75	12.44	33.28	25.19	280.6	.2254	5.46	.86
100	10.80	33.57	25.72	230.7	.2897	4.55	1.22
150	9.50	33.82	26.14	191.8	.396	3.47	1.82
200	8.96	34.02	26.38	169.5	.487	3.00	2.02
250	8.47	34.16	26.56	152.7	.568	1.99	2.42
300	7.95	34.20	26.67	142.8	.643	1.55	2.70
400	6.92	34.22	26.84	128.4	.779	1.29	3.00
500	6.35	34.31	26.98	115.4	.902	.54	3.21
600	5.68	34.36	27.11	104.2	1.013	.45	3.26
700	5.15	34.42	27.22	94.1	1.113	.48	3.29
800	4.68	34.47	27.31	85.5	1.204	.50	3.30
1000	3.95	34.50	27.42	76.6	1.368	-	3.28

STATION 97.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°35.5'N 118°30'W March 12, 1951 1451 GCT Wire angle: 3°
Sounding: 1,060 fms. Depth of observation: 1,189 m. Weather: clear
Sea: rough Wind: 340°, 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	13.92	33.31	24.92	304.6	.0000	5.75	.51
10	13.92	33.17	24.81	315.2	.0311	5.64	.51
20	13.90	33.22	24.85	311.4	.0626	5.60	.52
30	13.88	33.22	24.86	311.3	.0938	5.64	.52
50	13.35	33.17	24.93	305.2	.1558	5.85	.54
75	11.35	33.13	25.28	272.0	.2283	5.49	.87
100	10.17	33.22	25.56	246.1	.2935	4.98	1.16
150	9.10	33.80	26.19	186.9	.403	3.33	1.82
200	8.26	34.13	26.57	150.9	.488	2.98	2.18
250	7.90	34.18	26.67	142.7	.562	2.27	2.46
300	7.62	34.21	26.73	137.4	.632	1.64	2.74
400	6.54	34.28	26.94	118.7	.761	1.12	3.08
500	6.10	34.41	27.10	104.6	.874	.64	3.16
600	5.57	34.38	27.14	101.4	.978	.45	3.20
700	5.12	34.41	27.22	94.5	1.077	.45	3.24
800	4.73	34.45	27.29	87.8	1.169	.49	3.26
1000	4.00	34.52	27.43	75.6	1.334	.73	3.23

STATION 97.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°15'N 119°11'W March 12, 1951 0751 GCT Wire angle: 13°
Sounding: 2,010 fms. Depth of observation: 1,159 m. Weather: clear
Sea: very rough Wind: 340°, force 3

0	14.88	33.22	24.65	330.5	.0000	5.63	.50
10	14.88	33.22	24.65	330.8	.0332	5.70	.40
20	14.87	33.22	24.65	330.9	.0664	5.45	.37
30	14.85	33.22	24.65	330.7	.0996	5.37	.37
50	14.40	33.21	24.74	322.8	.1653	5.74	.40
75	14.16	33.13	24.73	324.5	.2467	5.72	.38
100	12.69	33.12	25.02	297.4	.3249	5.61	.60
150	10.65	33.48	25.67	235.9	.459	4.96	1.29
200	8.90	33.85	26.25	181.2	.564	3.35	1.82
250	8.11	34.02	26.51	157.8	.650	2.81	2.11
300	7.56	34.08	26.64	146.0	.726	2.23	2.33
400	6.31	34.12	26.84	127.7	.864	1.12	2.60
500	5.60	34.24	27.02	110.9	.984	.66	3.04
600	5.39	34.35	27.14	101.2	1.091	.47	3.17
700	5.06	34.41	27.22	93.7	1.190	.42	3.18
800	4.67	34.47	27.32	85.4	1.280	.41	3.18
1000	4.12	34.55	27.44	75.0	1.442	.62	3.21

STATION 97.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°15'N 121°11'W March 11, 1951 0956 GCT Wire angle:
10° Sounding: 2,140 fms. Depth of observation: 1,173 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	15.44	33.37	24.64	331.2	.0000	5.74	.49
10	15.44	33.24	24.54	341.0	.0337	5.66	.49
20	15.44	33.28	24.57	338.4	.0679	5.62	.52
30	15.44	33.40	24.66	329.9	.1014	5.59	.53
50	15.39	33.49	24.74	322.7	.1670	5.57	.47
75	14.87	33.37	24.76	321.4	.2480	5.57	.59
100	11.17	33.40	25.52	249.6	.3198	4.95	1.08
150	9.60	33.71	26.03	201.6	.433	4.16	1.53
200	8.75	33.98	26.38	169.2	.527	3.62	1.93
250	8.18	34.17	26.62	147.7	.607	2.76	2.21
300	7.62	34.22	26.74	136.7	.678	2.01	2.44
400	6.17	34.18	26.91	121.2	.808	1.51	2.77
500	5.68	34.28	27.05	108.8	.924	.75	2.99
600	5.26	34.41	27.20	95.2	1.027	.52	3.12
700	4.92	34.42	27.25	91.2	1.121	.41	3.21
800	4.62	34.44	27.30	87.1	1.211	.41	3.23
1000	(3.91)	(34.59)	(27.49)	(69.5)	(1.370)	(.80)	(3.13)

STATION 100.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°40.5'N 116°46.5'W March 8, 1951 2239 GCT Wire angle:
22° Sounding: 260 fms. Depth of observation: 333 m. Weather: cloudy
Sea: moderate Wind: 320°, force 2

0	12.16	33.46	25.38	260.5	.0000	5.58	.62
10	11.32	33.56	25.62	238.4	.0250	5.35	.88
20	10.52	33.69	25.86	215.4	.0478	3.60	1.43
30	10.13	33.80	26.01	201.2	.0687	3.08	1.73
50	9.84	33.97	26.19	184.4	.1075	2.35	1.92
75	9.75	34.07	26.29	176.1	.1528	1.78	2.04
100	9.59	34.10	26.34	171.7	.1965	1.53	2.26
150	9.26	34.22	26.49	158.7	.280	1.22	2.43
200	9.12	34.24	26.53	155.6	.359	1.05	2.45
250	8.79	34.31	26.63	146.4	.435	.97	2.62
300	8.40	34.31	26.69	141.4	.507	.96	2.71

STATION 100.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°21'N 117°27'W March 9, 1951 0809 GCT Wire angle: 9°
 Sounding: 1,040 fms. Depth of observation: 1,169 m. Weather: partly
 cloudy Sea: very 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	13.75	33.28	24.93	303.6	.0000	5.92	.40
10	13.76	33.30	24.94	302.7	.0304	5.90	.35
20	13.67	33.34	24.99	298.1	.0606	5.83	.33
30	13.42	33.41	25.10	288.5	.0901	5.69	.34
50	11.93	33.44	25.41	258.8	.1451	5.17	.94
75	10.37	33.50	25.74	228.3	.2063	3.88	1.39
100	9.92	33.65	25.93	210.2	.2614	3.49	1.52
150	9.33	33.94	26.26	180.3	.360	3.10	1.79
200	8.91	34.27	26.58	150.4	.443	2.32	2.12
250	8.53	34.27	26.64	145.6	.518	1.45	2.51
300	8.15	34.27	26.70	140.8	.590	1.03	2.65
400	7.14	34.27	26.85	127.6	.725	.84	2.90
500	6.33	34.33	27.00	113.6	.847	.44	3.00
600	5.63	34.33	27.09	105.9	.957	.31	3.11
700	5.12	34.36	27.18	98.2	1.060	.35	3.15
800	4.68	34.39	27.25	91.4	1.156	.45	3.16
1000	4.04	34.49	27.40	78.4	1.328	.79	3.16

STATION 100.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 31°01'N 118°07'W March 9, 1951 1608 GCT Wire angle: 20°
 Sounding: 980 fms. Depth of observation: 1,229 m. Weather: cloudy
 Sea: very rough Wind: 320°, force 5

0	14.28	33.33	24.86	310.4	.0000	5.74	.46
10	14.29	33.30	24.83	313.1	.0313	5.60	.41
20	14.27	33.31	24.85	312.2	.0627	5.57	.37
30	14.27	33.31	24.85	312.5	.0941	5.56	.38
50	14.26	33.28	24.83	314.9	.1571	5.54	.52
75	11.73	33.33	25.36	264.1	.2299	5.16	.97
100	10.82	33.52	25.68	324.8	.2926	4.07	1.32
150	9.76	33.82	26.09	196.1	.401	3.16	1.73
200	9.01	34.09	26.43	165.2	.492	2.39	2.08
250	8.31	34.22	26.63	145.9	.570	1.99	2.37
300	7.67	34.30	26.79	131.4	.640	1.57	2.59
400	6.89	34.42	27.00	113.1	.764	.79	2.94
500	6.32	34.56	27.18	96.6	.869	.52	3.09
600	5.68	34.41	27.15	100.5	.969	.37	3.12
700	5.16	34.44	27.24	92.7	1.066	.35	3.11
800	4.72	34.50	27.33	83.9	1.155	.40	3.11
1000	3.98	34.59	27.49	70.2	1.311	.62	3.12

STATION 100.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°41'N 118°47.5'W March 9, 1951 2236 GCT Wire angle:
23' Sounding: 1,500 fms. Depth of observation: 1,255 m. Weather: cloudy
Sea: very rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (ng/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	14.42	33.33	24.83	313.1	.0000	5.75	.55
10	14.40	33.30	24.81	315.2	.0315	5.92	.54
20	14.39	33.33	24.84	313.0	.0631	5.82	.54
30	14.37	33.39	24.89	308.6	.0943	5.80	.57
50	14.31	33.44	24.94	304.2	.1559	5.85	.74
75	11.87	33.13	25.18	281.2	.2295	5.63	.84
100	10.75	33.30	25.52	249.8	.2963	5.14	1.15
150	9.40	33.71	26.06	198.6	.409	3.86	1.70
200	8.76	34.00	26.39	167.9	.501	2.91	2.06
250	8.25	34.15	26.59	150.3	.582	2.11	2.36
300	7.75	34.25	26.74	136.2	.654	1.49	2.62
400	6.84	34.39	26.98	114.5	.780	.94	3.01
500	6.12	34.42	27.10	104.0	.890	.48	3.08
600	5.68	34.41	27.15	100.5	.994	.42	3.15
700	5.17	34.50	27.28	88.4	1.089	.40	3.21
800	4.65	34.54	27.37	80.1	1.174	.45	3.24
1000	4.00	34.50	27.41	77.1	1.333	.88	3.21

STATION 100.70 (interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°20.5'N 119°27'W March 10, 1951 0503 GCT Wire angle:
15' Sounding: 2,100 fms. Depth of observation: 1,030 m. Weather: partly
cloudy Sea: very rough Wind: 320°, force 4

0	14.31	33.21	24.76	319.8	.0000	5.95	.56
10	14.31	33.14	24.71	325.2	.0324	5.94	.58
20	14.30	33.16	24.72	323.8	.0650	5.85	.49
30	14.26	33.21	24.77	319.6	.0973	5.79	.48
50	14.17	33.31	24.87	311.0	.1606	5.77	.55
75	12.75	33.12	25.01	298.0	.2372	5.59	.76
100	11.64	33.31	25.36	264.6	.3080	5.41	.97
150	10.23	33.57	25.82	222.2	.431	4.25	1.62
200	9.36	33.96	26.27	180.2	.532	2.90	2.02
250	8.57	34.16	26.55	154.2	.616	2.29	2.28
300	8.02	34.20	26.66	143.9	.691	1.67	2.54
400	7.29	34.33	26.87	125.2	.827	.89	3.00
500	6.19	34.33	27.02	111.6	.946	.56	3.18
600	5.62	34.38	27.13	101.9	1.054	.46	3.25
700	5.14	34.44	27.24	92.5	1.152	.50	3.28
800	4.64	34.50	27.34	82.9	1.241	.57	3.31
1000	3.96	34.57	27.47	71.5	1.397	.74	3.25

STATION 100.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 30°01'N 120°07'W March 10, 1951 1218 GCT Wire angle: 18°
 Sounding: 2,100 fms. Depth of observation: 1,063 m. Weather: overcast
 Sea: very rough 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 (μ g at/L)
0	15.72	33.40	24.60	334.8	.0000	5.62	.46
10	15.72	33.32	24.54	340.9	.0339	5.48	.40
20	15.70	33.35	24.57	338.6	.0608	5.54	.43
30	15.71	33.39	24.60	336.1	.1019	5.59	.43
50	15.75	33.44	24.63	334.0	.1693	5.55	.43
75	15.70	33.36	24.58	339.4	.2539	5.42	.45
100	14.66	33.45	24.87	311.8	.3358	5.64	.51
150	11.15	33.35	25.49	254.0	.478	4.90	.90
200	9.74	33.84	26.11	195.2	.591	3.65	1.58
250	8.76	34.14	26.50	158.6	.680	2.87	2.12
300	7.85	34.15	26.65	145.1	.757	2.30	2.46
400	6.35	34.15	26.86	125.7	.893	1.35	2.81
500	5.90	34.27	27.01	112.3	1.013	.77	2.96
600	5.47	34.35	27.13	102.3	1.122	.48	3.05
700	4.89	34.40	27.24	92.2	1.220	.39	3.10
800	4.55	34.48	27.34	83.2	1.309	.51	3.09
1000	4.03	34.52	27.42	76.0	1.470	.83	3.07

STATION 100.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 29°40.5'N 120°47'W March 10, 1951 1848 GCT Wire angle:
 20° Sounding: 2,200 fms. Depth of observation: 1,213 m. Weather: cloudy
 Sea: very rough Wind: 340°, force 4

0	16.08	33.46	24.56	338.5	.0000	5.49	.49
10	16.09	33.39	24.51	344.0	.0343	5.51	.49
20	16.08	33.41	24.53	342.7	.0687	5.56	.46
30	16.09	33.46	24.56	339.5	.1030	5.55	.46
50	16.10	33.51	24.60	336.6	.1709	5.44	.52
75	16.09	33.40	24.52	345.1	.2566	5.46	.47
100	15.46	33.37	24.64	334.3	.3421	5.50	.48
150	12.90	33.53	25.29	272.6	.495	5.09	.70
200	10.37	33.72	25.91	214.3	.617	4.56	1.16
250	8.91	33.95	26.33	174.9	.715	3.83	1.64
300	8.05	34.13	26.60	149.6	.797	2.94	2.05
400	6.98	34.20	26.81	130.6	.938	1.49	2.70
500	6.00	34.33	27.05	109.2	1.059	.99	2.88
600	5.34	34.27	27.08	106.6	1.168	.49	3.03
700	4.91	34.31	27.16	99.3	1.272	.47	3.07
800	4.58	34.39	27.26	90.3	1.368	.52	3.08
1000	3.97	34.58	27.48	70.8	1.531	.73	3.09

STATION 100.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 29°20.5'N 121°27'W March 11, 1951 0036 GCT Wire angle: 22° Sounding: 2,240 fms. Depth of observation: 1,106 m. Weather: partly cloudy Sea: very rough 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 (μg at/L)
0	16.52	33.51	24.50	344.2	.0000	5.50	.48
10	16.54	33.49	24.48	346.4	.0347	5.34	.45
20	16.52	33.50	24.50	345.4	.0694	5.42	.47
30	16.52	33.60	24.57	338.5	.1037	5.50	.47
50	16.55	33.69	24.64	333.1	.1712	5.52	.45
75	16.60	33.60	24.55	341.6	.2560	5.37	.46
100	16.57	33.52	24.50	347.5	.3427	5.55	.52
150	11.83	33.36	25.37	265.1	.497	5.36	.82
200	10.09	33.81	26.03	203.1	.615	4.40	1.34
250	8.77	33.99	26.39	169.8	.709	3.71	1.72
300	7.84	34.09	26.60	149.4	.789	2.90	2.08
400	6.91	34.21	26.83	129.0	.929	1.41	2.78
500	6.20	34.23	26.94	119.2	1.055	.84	3.04
600	5.44	34.26	27.06	108.6	1.170	.56	3.16
700	5.04	34.41	27.23	93.4	1.272	.43	3.23
800	4.64	34.48	27.33	84.4	1.361	.43	3.24
1000	3.92	34.56	27.47	71.8	1.519	.64	3.24

STATION 103.35 (Interpolated Values at Standard Depths)

CREST: 30°54'N 116°45'W March 8, 1951 1129 GCT Wire angle: 30° Sounding: 1,135 fms. Depth of observation: 1,042m. Weather: partly cloudy Sea: moderate Wind: 320°, force 4

0	13.73	33.35	24.99	298.0	.0000	4.42	.44
10	13.76	33.31	24.95	301.8	.0301	4.39	.39
20	13.74	33.42	25.04	293.5	.0600	4.93	.38
30	13.73	33.41	25.04	294.4	.0895	5.08	.40
50	13.66	33.38	25.03	295.6	.1488	5.13	.45
75	11.50	33.37	25.44	256.9	.2183	4.15	.95
100	10.09	33.63	25.89	214.4	.2775	3.33	1.34
150	9.07	33.92	26.28	177.6	.376	2.49	1.87
200	8.39	34.11	26.54	154.1	.460	2.23	2.30
250	8.20	34.23	26.66	143.4	.535	2.07	2.62
300	7.92	34.43	26.86	125.4	.603	1.88	2.86
400	7.18	34.43	26.97	116.3	.724	1.02	2.95
500	6.43	34.36	27.01	112.6	.840	.39	3.02
600	5.77	34.47	27.18	97.4	.946	.30	3.06
700	5.21	34.54	27.31	86.0	1.038	.27	3.11
800	4.84	34.57	27.37	80.3	1.122	.27	3.18
1000	4.17	34.60	27.47	71.8	1.276	.43	3.29

STATION 103.40 (Interpolated Values at Standard Depths)

CREST: 30°44'N 117°05.5'W March 8, 1951 1533 GCT Wire angle: 10°
 Sounding: 850 fms. Depth of observation: 1204 m. Weather: cloudy
 Sea: moderate Wind: 350°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (dyn.m.)	PO ₄ -P ($\mu\text{g at/L}$)
0	14.22	33.32	24.86	309.9	.0000	5.55	.93
10	14.24	33.31	24.85	311.3	.0312	5.27	.73
20	14.24	33.41	24.93	304.3	.0621	5.11	.67
30	14.22	33.41	24.93	304.0	.0926	5.07	.67
50	13.25	33.40	25.13	286.3	.1520	5.23	.75
75	11.16	33.44	25.55	245.9	.2189	5.53	1.16
100	10.50	33.59	25.79	224.2	.2780	3.70	1.63
150	9.51	34.11	26.36	170.6	.377	2.44	2.17
200	8.46	34.17	26.57	150.8	.458	2.42	2.24
250	7.81	34.18	26.68	141.4	.532	2.02	2.45
300	7.48	34.20	26.74	136.1	.602	1.35	2.74
400	7.12	34.51	27.04	109.6	.726	.48	3.02
500	6.28	34.43	27.09	105.4	.834	.32	3.17
600	5.62	34.43	27.17	98.2	.937	.37	3.28
700	5.11	34.47	27.26	89.9	1.032	.42	3.26
800	4.69	34.54	27.37	80.5	1.118	.49	3.26
1000	4.01	34.66	27.54	65.5	1.265	.62	3.28

STATION 103.50 (Interpolated Values at Standard Depths)

CREST: 30°28'N 117°45.5'W March 8, 1951 2130 GCT Wire angle: 26°
 Sounding: 1,450 fms. Depth of observation: 1,070 m. Weather: cloudy
 Sea: very rough Wind: 320°, force 4

0	15.21	33.49	24.78	317.5	.0000	5.56	.45
10	15.26	33.38	24.69	327.0	.0324	5.58	.39
20	15.25	33.50	24.78	318.3	.0647	5.57	.46
30	15.00	33.49	24.83	314.0	.0965	5.57	.46
50	14.73	33.45	24.86	311.8	.1594	5.58	.43
75	13.70	33.30	24.96	303.0	.2367	5.60	.44
100	11.43	33.26	25.37	264.4	.3080	5.10	.92
150	9.55	33.69	26.03	202.3	.426	4.30	1.35
200	8.67	34.11	26.49	158.4	.516	3.33	1.82
250	8.39	34.28	26.67	142.6	.592	1.98	2.29
300	8.05	34.38	26.80	131.0	.661	1.38	2.55
400	7.08	34.42	26.97	115.7	.785	.69	2.78
500	6.28	34.33	27.01	112.9	.901	.41	3.11
600	5.65	34.38	27.13	102.4	1.009	.30	3.17
700	5.24	34.51	27.28	88.5	1.106	.28	3.19
800	4.78	34.48	27.31	86.1	1.194	.37	3.19
1000	3.98	34.53	27.44	74.7	1.356	.57	3.19

STATION 103.60 (Interpolated Values at Standard Depths)

CREST: 30°07'N 118°23'W March 9, 1951 0326 GCT Wire angle: 33°
 Sounding: 1,650 fms. Depth of observation: 1,021 m. Weather: cloudy
 Sea: rough Wind: 240°, 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	15.53	33.55	24.76	319.8	.0000	5.00	.58
10	15.53	33.40	24.64	331.1	.0327	5.05	.54
20	15.54	33.51	24.72	323.8	.0656	5.15	.54
30	15.54	33.49	24.71	325.3	.0981	5.28	.54
50	14.29	33.35	24.87	310.3	.1620	5.35	.55
75	12.22	33.18	25.16	283.7	.2367	5.10	.82
100	10.42	33.04	25.37	263.3	.3055	5.12	1.14
150	9.36	33.69	26.06	199.3	.422	4.10	2.17
200	8.56	33.92	26.36	170.9	.515	3.39	2.67
250	7.87	34.05	26.57	151.9	.596	2.71	2.81
300	7.39	34.16	26.73	137.7	.669	1.86	2.91
400	7.26	34.36	26.90	122.6	.801	.69	3.04
500	6.22	34.35	27.03	110.6	.918	.42	3.13
600	5.61	34.43	27.17	98.2	1.024	.31	3.22
700	5.09	34.48	27.28	88.9	1.118	.32	-
800	4.59	34.52	27.36	80.7	1.204	.37	-
1000	4.02	34.57	27.46	72.2	1.358	.52	-

STATION 103.70 (Interpolated Values at Standard Depths)

CREST: 29°46'N 119°01'W March 9, 1951 0933 GCT Wire angle: 25°
 Sounding: 1,950 fms. Depth of observation: 1,088 m. Weather: cloudy
 Sea: missing Wind: 320°, force 5

0	14.15	33.55	25.06	291.7	.0000	5.61	.49
10	14.16	33.37	24.92	305.3	.0300	5.65	.49
20	14.16	33.50	25.02	296.0	.0602	5.67	.49
30	14.12	33.52	25.04	294.1	.0898	5.68	.49
50	13.95	33.53	25.08	290.4	.1485	5.62	.51
75	10.81	33.59	25.73	228.8	.2138	4.11	1.42
100	10.18	33.82	26.02	201.8	.2680	3.59	1.64
150	9.17	33.99	26.32	174.1	.363	2.87	2.03
200	8.51	33.90	26.35	171.7	.450	2.59	2.20
250	7.85	34.00	26.53	155.3	.532	2.18	2.40
300	7.21	34.11	26.71	139.0	.606	1.56	2.66
400	6.38	34.22	26.91	121.0	.737	.70	3.04
500	5.49	34.29	27.08	105.6	.851	.47	3.16
600	4.98	34.39	27.22	93.1	.952	.40	3.21
700	4.76	34.45	27.29	87.0	1.042	.36	3.23
800	4.48	34.54	27.39	77.9	1.126	.45	3.25
1000	3.87	34.66	27.55	63.8	1.269	.65	3.27

STATION 103.80 (Interpolated Values at Standard Depths)

CREST: 29°24'N 119°28'W March 9, 1951 1535 GCT Wire angle: 37°
 Sounding: 1,950 fms. Depth of observation: 862 m. Weather: 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 ($\mu\text{g at/L}$)
0	14.46	33.39	24.87	309.4	.0000	5.67	.59
10	14.49	33.20	24.71	324.5	.0318	5.48	.56
20	14.49	33.40	24.87	310.0	.0637	5.31	.60
30	14.48	33.44	24.90	307.1	.0947	5.33	.59
50	14.47	33.46	24.92	306.0	.1563	5.49	.57
75	14.47	33.33	24.82	316.1	.2345	5.33	.64
100	12.55	33.31	25.19	280.9	.3096	4.64	.86
150	10.01	33.78	26.02	203.1	.431	3.74	1.68
200	9.46	34.22	26.45	162.7	.523	3.04	2.31
250	8.52	34.13	26.53	155.7	.604	2.55	2.39
300	7.15	34.10	26.71	138.8	.678	2.00	2.49
400	6.28	34.16	26.88	124.1	.810	1.00	3.03
500	5.67	34.32	27.08	105.8	.926	.55	3.18
600	5.27	34.47	27.25	90.8	1.025	.35	3.29
700	5.01	34.58	27.36	80.5	1.112	-	3.34
800	4.58	34.64	27.46	71.9	1.189	-	3.33
1000	(3.88)	(34.68)	27.57	62.4	1.325	-	-

STATION 107.35 (Interpolated Values at Standard Depths)

CREST: 30°20'N 116°22'W March 11, 1951 0026 GCT Wire angle: 34°
 Sounding: 600 fms. Depth of observation: 755 m. Weather: partly cloudy
 Sea: rough Wind: 320°, force 5

0	11.96	33.60	25.53	246.5	.0000	5.85	1.04
10	11.92	33.47	25.44	255.5	.0252	5.64	1.13
20	11.62	33.58	25.58	242.4	.0502	5.28	1.22
30	11.46	33.59	25.61	239.2	.0744	5.00	1.29
50	11.11	33.60	25.69	232.9	.1218	4.25	1.58
75	10.25	33.70	25.92	211.3	.1777	3.52	1.74
100	9.75	33.90	26.16	189.0	.2280	3.39	1.82
150	9.17	34.09	26.40	166.6	.318	2.49	2.32
200	9.44	34.42	26.61	147.6	.397	1.27	2.72
250	9.44	34.49	26.67	143.4	.470	.96	2.86
300	8.82	34.45	26.74	137.4	.541	.86	2.91
400	7.70	34.45	26.91	122.2	.671	.69	3.00
500	6.72	34.43	27.03	111.4	.789	.52	3.16
600	6.07	34.37	27.07	108.5	.900	.49	3.30
700	5.53	34.51	27.24	92.6	1.002	.51	3.44

STATION 107.40 (Interpolated Values at Standard Depths)

CREST: 30°10'N 116°42'W March 10, 1951 2005 GCT Wire angle: 26°
 Sounding: 1,500 fms. Depth of observation: 1,116 m. Weather: cloudy
 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 ($\mu\text{g at/L}$)
0	14.33	33.45	24.94	302.6	.0000	5.67	.63
10	14.34	33.30	24.82	314.0	.0310	5.74	.60
20	14.31	33.57	25.04	294.0	.0615	5.75	.56
30	14.28	33.56	25.04	294.3	.0910	5.75	.56
50	14.25	33.47	24.97	300.9	.1508	5.67	.64
75	11.09	33.39	25.53	248.5	.2199	5.09	1.22
100	10.52	33.51	25.72	230.5	.2801	4.52	1.48
150	9.77	33.97	26.21	185.1	.385	3.37	1.81
200	9.74	34.33	26.49	159.1	.471	1.76	2.32
250	8.61	34.28	26.64	145.9	.548	1.19	2.42
300	8.01	34.29	26.74	137.1	.619	.89	2.56
400	7.79	34.51	26.94	119.2	.748	.56	3.00
500	6.72	34.56	27.13	101.9	.860	.33	3.10
600	6.03	34.62	27.27	89.5	.957	.25	3.21
700	5.51	34.52	27.26	91.4	1.048	.30	3.27
800	5.03	34.52	27.31	86.3	1.138	.34	3.33
1000	4.14	34.60	27.47	71.5	1.297	.52	3.32

STATION 107.50 (Interpolated Values at Standard Depths)

CREST: 29°50.5'N 117°22.5'W March 10, 1951 1404 GCT Wire angle: 30°
 Sounding: 1,400 fms. Depth of observation: 1,128 m. Weather: cloudy
 Sea: rough Wind: 320°, force 5

0	15.82	33.75	24.85	311.3	.0000	5.61	.51
10	15.82	33.49	24.65	330.6	.0322	5.05	.51
20	15.82	33.76	24.86	311.4	.0645	5.12	.52
30	15.81	33.74	24.84	312.9	.0958	5.21	.52
50	15.81	33.68	24.80	317.7	.1592	5.27	.52
75	15.82	33.61	24.74	323.8	.2398	5.22	.54
100	12.80	33.58	25.35	265.8	.3140	4.89	.93
150	10.60	34.18	26.23	183.4	.427	2.59	1.89
200	10.06	34.41	26.50	158.5	.513	1.77	2.41
250	9.54	34.58	26.72	138.4	.588	1.25	2.67
300	9.03	34.62	26.84	128.3	.655	.91	2.83
400	8.07	34.58	26.95	118.3	.779	.56	3.00
500	7.12	34.62	27.12	103.1	.891	.37	3.20
600	6.31	34.61	27.23	94.1	.991	.32	3.35
700	5.57	34.62	27.33	84.6	1.081	.32	3.42
800	4.98	34.65	27.42	76.1	1.162	.35	3.45
1000	4.25	34.72	27.56	63.9	1.304	.52	3.45

STATION 107.60 (Interpolated Values at Standard Depths)

CREST: 29°31.5'N 118°02.5'W March 10, 1951 0804 GCT Wire angle: 24°
 Sounding: 1,950 fms. Depth of observation: 1,167 m. Weather: cloudy
 Sea: rough Wind: 310°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^2\delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	15.79	33.58	24.72	323.3	.0000	5.38	.49
10	15.78	33.48	24.65	330.7	.0328	5.42	.46
20	15.79	33.62	24.75	321.0	.0656	5.40	.45
30	15.80	33.65	24.77	319.4	.0977	5.37	.45
50	15.78	33.66	24.79	318.8	.1618	5.34	.44
75	15.80	33.58	24.72	325.5	.2428	5.31	.47
100	13.32	33.38	25.10	290.2	.3203	5.17	.69
150	10.62	33.76	25.90	214.6	.447	3.48	1.50
200	9.56	34.04	26.30	177.5	.546	2.68	1.91
250	9.05	34.26	26.55	154.2	.630	2.15	2.07
300	8.65	34.35	26.68	142.3	.704	1.71	2.38
400	7.93	34.43	26.86	127.2	.840	.61	2.90
500	7.00	34.48	27.03	111.8	.961	.42	3.04
600	6.26	34.49	27.14	102.3	1.069	.28	3.14
700	5.61	34.51	27.24	93.4	1.167	.33	3.16
800	4.94	34.53	27.33	84.4	1.257	.36	3.17
1000	4.07	34.58	27.47	72.1	1.415	.45	3.26

STATION 107.70 (Interpolated Values at Standard Depths)

CREST: 29°13'N 118°42.5'W March 10, 1951 0222 GCT Wire angle: 13°
 Sounding: 1,600 fms. Depth of observation: 1,051 m. Weather: cloudy
 Sea: rough Wind: 320°, force 5

0	15.57	33.58	24.77	318.5	.0000	5.38	.57
10	15.56	33.44	24.67	328.7	.0325	5.21	.51
20	15.55	33.54	24.75	321.6	.0651	5.09	.52
30	15.54	33.57	24.77	319.5	.0973	5.06	.54
50	15.50	33.53	24.75	322.0	.1618	5.12	.52
75	14.25	33.35	24.88	310.2	.2413	4.93	.62
100	11.80	33.43	25.43	258.3	.3128	4.21	1.09
150	10.54	33.94	26.05	200.2	.428	2.86	1.83
200	9.74	34.23	26.41	166.4	.520	1.99	2.31
250	8.96	34.39	26.67	143.2	.598	1.52	2.56
300	8.49	34.48	26.81	130.3	.667	1.07	2.78
400	7.62	34.48	26.94	119.0	.793	.52	3.14
500	6.52	34.48	27.10	105.1	.906	.40	3.25
600	5.81	34.55	27.24	92.0	1.005	.29	3.28
700	5.33	34.56	27.31	86.0	1.095	.25	3.28
800	4.69	34.52	27.35	82.0	1.180	.24	3.28
1000	3.84	34.60	27.51	68.0	1.332	.45	3.28

STATION 107.80 (Interpolated Values at Standard Depths)

CREST: 28°55'N 119°21'W March 9, 1951 2043 GCT Wire angle: 25°
 Sounding: 2,050 fms. Depth of observation: 1,149 m. Weather: cloudy
 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	15.46	33.37	24.64	331.4	.0000	5.41	.49
10	15.46	33.37	24.64	331.7	.0333	5.52	.48
20	15.46	33.37	24.64	332.0	.0666	5.55	.49
30	15.45	33.37	24.64	332.2	.1000	5.52	.49
50	15.44	33.40	24.66	330.3	.1665	5.43	.47
75	14.48	33.33	24.82	316.4	.2478	5.57	.50
100	12.15	33.38	25.32	268.3	.3214	5.45	.84
150	9.77	33.55	25.88	216.2	.443	4.10	1.49
200	9.01	33.98	26.34	173.2	.541	2.45	2.18
250	8.00	34.03	26.54	155.2	.624	1.65	2.38
300	7.43	34.07	26.65	144.9	.700	1.15	2.53
400	6.96	34.21	26.82	129.5	.838	.68	2.99
500	6.06	34.25	26.98	115.9	.962	.46	3.12
600	5.50	34.33	27.11	104.1	1.073	.32	3.23
700	4.96	34.37	27.20	95.2	1.173	.34	3.28
800	4.51	34.43	27.30	86.4	1.265	.42	3.36
1000	3.87	34.60	27.50	68.1	1.421	.67	3.41

STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°47'N 116°00'5"W March 13, 1951 1852 GCT Wire angle: 11°
 Sounding: 600 fms. Depth of observation: 961 m. Weather: partly cloudy
 Sea: missing Wind: 300°, force 1

0	12.75	33.44	25.26	272.7	.0000	5.82	.72
10	12.35	33.40	25.30	268.6	.0272	5.66	.69
20	12.05	33.55	25.47	252.3	.0533	5.48	.68
30	11.77	33.57	25.54	246.1	.0783	5.24	.69
50	10.52	33.58	25.78	224.3	.1256	3.91	.73
75	9.92	33.78	26.03	200.1	.1790	3.36	1.57
100	9.61	33.97	26.23	181.4	.2270	2.92	1.78
150	9.81	34.31	26.46	160.8	.313	1.34	2.36
200	9.64	34.49	26.63	145.6	.390	.94	2.49
250	9.19	34.45	26.68	142.3	.463	.77	2.59
300	8.59	34.39	26.73	138.4	.533	.64	2.69
400	7.53	34.36	26.86	126.4	.667	.46	2.90
500	6.65	34.43	27.04	110.5	.786	.32	3.01
600	6.04	34.44	27.13	103.0	.894	.26	3.09
700	5.36	34.41	27.19	97.5	.995	.30	3.19
800	5.08	34.51	27.30	87.7	1.089	.32	3.22
1000	(4.22)	(34.52)	(27.40)	(78.4)	(1.257)	(.52)	(3.12)

STATION 110.40 (Interpolated Values at Standard Depths)

CREST: 29°37'N 116°20'W March 13, 1951 2220 GCT Wire angle: 12°
 Sounding: 1,375 fms. Depth of observation: 1,148 m. Weather: cloudy
 Sea: slight 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 (μ g at/L)
0	13.90	33.55	25.11	286.7	.0000	5.96	-
10	13.32	33.39	25.10	287.3	.0288	5.88	-
20	12.85	33.58	25.34	264.8	.0565	5.67	-
30	12.61	33.58	25.39	260.6	.0829	5.51	-
50	12.41	33.53	25.39	261.2	.1354	5.47	.85
75	10.82	33.62	25.75	226.8	.1967	3.84	1.39
100	10.29	33.77	25.97	207.2	.2513	3.45	1.67
150	9.49	34.02	26.29	177.0	.348	2.52	1.99
200	8.99	34.28	26.58	150.7	.430	1.72	2.23
250	8.81	34.35	26.66	143.7	.505	1.19	2.54
300	8.60	34.39	26.72	138.7	.576	.79	2.84
400	7.42	34.42	26.93	120.4	.706	.37	3.01
500	6.37	34.52	27.15	100.1	.817	.28	3.06
600	5.81	34.49	27.20	96.4	.917	.25	3.10
700	5.28	34.53	27.29	87.6	1.009	.35	3.19
800	4.77	34.57	27.38	79.3	1.094	.40	3.28
1000	4.13	34.59	27.47	72.1	1.247	.55	3.37

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°16'N 116°59.5'W March 14, 1951 0352 GCT Wire angle: 11°
 Sounding: 1,950 fms. Depth of observation: 965 m. Weather: cloudy
 Sea: slight Wind: 310°, force 3

0	15.48	33.42	24.67	328.3	.0000	5.56	.44
10	15.28	33.39	24.69	326.7	.0329	5.55	.42
20	15.26	33.42	24.72	324.2	.0656	5.59	.45
30	15.25	33.45	24.74	322.3	.0980	5.60	.47
50	15.21	33.51	24.80	317.5	.1623	5.59	.42
75	14.80	33.46	24.85	313.3	.2416	5.57	.57
100	12.13	33.42	25.36	265.1	.3144	4.95	.90
150	10.06	33.77	26.00	204.6	.433	3.35	1.72
200	9.28	34.06	26.36	171.5	.527	2.47	2.30
250	8.74	34.23	26.58	151.6	.609	2.55	2.41
300	8.24	34.27	26.69	142.0	.683	2.51	2.51
400	7.04	34.20	26.81	131.4	.820	.91	2.79
500	6.44	34.26	26.93	120.2	.947	.50	2.98
600	5.96	34.39	27.10	105.7	1.061	.33	3.10
700	5.43	34.43	27.19	97.0	1.164	.35	3.14
800	4.92	34.46	27.28	89.4	1.258	.37	3.13
1000	(4.17)	(34.54)	(27.42)	(76.3)	(1.425)	(.50)	(3.05)

STATION 110.69 (Interpolated Values at Standard Depths)

CREST: 28°55'N 117°38.5'W March 14, 1951 0854, 1028 GCT Wire
 angles: 5°, 0° Sounding: 2,000 fms. Depths of observation: 1,180, 3,048 m.
 Weather: cloudy Sea: slight 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	15.72	33.53	24.70	325.4	.0000	5.21	.40
10	15.77	33.47	24.65	330.9	.0330	5.34	.38
20	15.72	33.54	24.71	325.1	.0659	5.17	.39
30	15.66	33.56	24.74	322.7	.0984	5.04	.41
50	15.67	33.57	24.74	322.8	.1633	5.02	.44
75	14.10	33.37	24.93	305.7	.2423	5.21	.47
100	12.23	33.48	25.39	262.5	.3138	3.94	1.03
150	10.93	33.94	25.98	206.7	.432	2.72	1.93
200	10.39	34.16	26.25	182.3	.530	1.79	2.14
250	9.82	34.36	26.50	159.2	.616	1.34	2.20
300	9.18	34.45	26.68	143.2	.692	1.03	2.25
400	8.16	34.43	26.82	130.5	.830	.53	2.86
500	6.96	34.45	27.01	113.4	.953	.34	3.02
600	6.01	34.45	27.14	101.9	1.062	.28	3.11
700	5.42	34.42	27.19	97.7	1.162	.27	3.16
800	4.92	34.40	27.23	93.8	1.259	.31	3.17
1000	4.11	34.55	27.44	74.9	1.430	.50	3.18
1200	3.54	34.62	27.55	64.2	1.570	.69	3.14
1500	2.96	34.62	27.61	59.6	1.759	1.03	3.01
2000	2.18	34.72	27.76	45.5	2.025	1.53	2.91
2500	1.79	34.72	27.79	42.3	2.249	2.32	2.73
3000	1.59	34.75	27.82	39.0	2.456	2.53	2.63

STATION 110.70 (Interpolated Values at Standard Depths)

CREST: 28°35'N 118°18'W March 14, 1951 1746 GCT Wire angle: 3°
 Sounding: 2,200 fms. Depth of observation: 1,143 m. Weather: cloudy
 Sea: moderate Wind: 150°, force 1

0	15.78	33.60	24.74	321.6	.0000	5.58	.43
10	15.59	33.40	24.63	332.5	.0328	5.42	.45
20	15.56	33.47	24.69	326.8	.0659	5.43	.44
30	15.53	33.54	24.75	321.4	.0985	5.48	.43
50	14.90	33.57	24.91	306.6	.1616	5.49	.39
75	13.20	33.58	25.27	272.9	.2344	5.28	.49
100	11.30	33.76	25.78	225.4	.2971	4.18	1.38
150	10.09	34.10	26.25	180.8	.399	2.31	1.89
200	9.61	34.27	26.47	161.3	.485	1.56	2.14
250	9.47	34.38	26.58	152.1	.564	.93	2.48
300	9.17	34.46	26.69	142.3	.639	.65	2.57
400	7.73	34.54	26.97	116.1	.769	.46	2.73
500	6.72	34.53	27.11	104.1	.880	.31	2.93
600	5.88	34.48	27.18	97.8	.982	.31	2.98
700	5.31	34.46	27.23	93.2	1.078	.34	2.98
800	4.82	34.47	27.30	87.5	1.169	.40	2.99
1000	4.07	34.62	27.50	69.1	1.328	.57	3.05

STATION 110.80 (Interpolated Values at Standard Depths)

CREST: 28°16'N 118°57.5'W March 15, 1951 0004 GCT Wire angle: 4°
 Sounding: 2,200 fms. Depth of observation: 1,173 m. Weather: cloudy
 Sea: moderate Wind: 150°, 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	17.05	33.62	24.46	348.0	.0000	5.31	.41
10	16.12	33.52	24.60	335.0	.0343	5.12	.40
20	16.19	33.80	24.80	316.4	.0670	5.10	.40
30	16.21	33.77	24.78	319.2	.0989	5.13	.41
50	15.40	33.57	24.80	317.1	.1629	5.32	.42
75	15.56	33.57	24.77	321.0	.2431	5.49	.38
100	12.12	33.30	25.27	273.8	.3179	5.01	.90
150	10.33	33.89	26.05	200.1	.437	3.28	1.61
200	9.27	34.13	26.41	166.4	.529	2.51	2.08
250	8.68	34.32	26.66	144.0	.608	1.90	2.47
300	8.26	34.43	26.81	130.5	.677	1.34	2.71
400	7.08	34.33	26.90	122.4	.804	.77	2.86
500	6.38	34.36	27.02	112.1	.923	.50	2.93
600	5.55	34.54	27.27	89.3	1.024	.30	3.09
700	5.08	34.48	27.28	88.7	1.114	.34	3.16
800	4.69	34.48	27.32	84.9	1.202	.41	3.17
1000	3.97	34.68	27.56	63.5	1.352	.65	3.10

STATION 110.90 (Interpolated Values at Standard Depths)

CREST: 27°56'N 119°37.5'W March 15, 1951 0514 GCT Wire angle: 0°
 Sounding: 2,250 fms. Depth of observation: 1,178 m. Weather: clear
 Sea: moderate Wind: calm

0	16.22	33.53	24.59	336.1	.0000	5.50	.49
10	15.84	33.35	24.54	341.4	.0340	5.52	.46
20	15.80	33.38	24.57	340.0	.0682	5.53	.49
30	15.79	33.43	24.61	335.0	.1021	5.54	.50
50	15.79	33.51	24.67	329.8	.1689	5.56	.50
75	15.58	33.40	24.63	334.1	.2524	5.59	.50
100	13.62	33.44	25.08	291.7	.3311	5.71	.55
150	10.19	33.24	25.57	245.9	.466	4.17	1.38
200	8.88	33.89	26.29	178.1	.573	3.66	1.99
250	8.17	34.12	26.58	151.2	.656	2.62	2.30
300	7.65	34.24	26.75	135.6	.728	1.59	2.56
400	6.94	34.37	26.95	117.6	.856	.68	2.89
500	6.34	34.42	27.07	107.2	.969	.36	3.11
600	5.75	34.42	27.15	100.8	1.074	.31	3.11
700	5.18	34.46	27.25	91.5	1.171	.36	3.15
800	4.63	34.52	27.36	81.4	1.259	.44	3.19
1000	3.96	34.56	27.46	72.2	1.414	.61	3.22

STATION 110.100 (Interpolated Values at Standard Depths)

CREST: 27°36.5'N 120°17.5'W March 15, 1951 1035 GCT Wire angle: 0°
 Sounding: 2,250 fms. Depth of observation: 1,182 m. Weather: partly cloudy
 Sea: moderate Wind: 200°, 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	16.88	33.71	24.57	337.5	.0000	5.22	.43
10	16.68	33.53	24.48	346.5	.0343	5.33	.41
20	16.62	33.54	24.51	344.7	.0690	5.40	.43
30	16.62	33.56	24.52	343.6	.1036	5.42	.44
50	16.66	33.60	24.54	341.9	.1725	5.41	.39
75	16.68	33.73	24.63	334.0	.2574	5.42	.43
100	13.70	33.39	25.03	297.0	.3368	5.62	.58
150	10.22	33.74	25.95	209.3	.464	4.08	1.31
200	8.84	34.02	26.40	167.8	.559	3.66	1.73
250	8.19	34.14	26.59	150.0	.639	3.01	2.18
300	7.66	34.24	26.75	135.6	.711	1.82	2.54
400	6.59	34.33	26.97	115.6	.838	.64	2.97
500	6.06	34.29	27.01	113.1	.953	.48	3.12
600	5.62	34.45	27.19	96.8	1.059	.50	3.15
700	5.14	34.43	27.23	93.2	1.155	.42	3.17
800	4.61	34.44	27.30	87.0	1.246	.43	3.18
1000	3.95	34.60	27.49	69.2	1.404	.72	3.19

STATION 110.110 (Interpolated Values at Standard Depths)

CREST: 27°17'N 120°58'W March 15, 1951 1526, 1719 GCT Wire angles: 4°, 8°
 Sounding: 2,180 fms. Depths of observation: 1,181, 3,019 m. Weather: cloudy
 Sea: rough Wind: calm

0	16.19	33.48	24.56	339.1	.0000	5.48	.42
10	16.15	33.35	24.47	348.1	.0345	5.42	.42
20	16.11	33.36	24.48	347.0	.0694	5.51	.44
30	16.02	33.38	24.52	343.8	.1041	5.54	.45
50	15.67	33.42	24.63	333.6	.1722	5.59	.41
75	14.38	33.24	24.77	320.9	.2544	6.02	.46
100	12.95	33.48	25.25	276.0	.3295	5.18	.85
150	10.21	33.74	25.96	209.2	.452	4.66	1.58
200	9.00	34.06	26.40	167.1	.546	2.94	1.97
250	7.98	34.13	26.62	147.4	.626	2.42	2.23
300	7.11	34.16	26.76	133.8	.696	2.06	2.47
400	6.29	34.25	26.95	117.6	.823	.94	2.93
500	6.11	34.35	27.05	109.3	.938	.37	3.10
600	5.36	34.44	27.21	94.1	1.040	.38	3.24
700	4.92	34.51	27.32	84.5	1.130	.39	3.23
800	4.54	34.53	27.38	79.3	1.213	.41	3.23
1000	3.85	34.52	27.44	73.9	1.368	.74	3.24
1200	3.37	34.58	27.54	65.4	1.509	.89	3.15
1500	2.77	34.56	27.58	61.8	1.702	1.24	3.03
2000	2.09	34.70	27.74	46.1	1.976	1.97	2.88
2500	1.79	34.73	27.79	41.6	2.199	2.37	2.79
3000	1.60	34.79	27.86	36.5	2.398	2.68	2.67

STATION 113.35 (Interpolated Values at Standard Depths)

CREST: 29°10'N 115°39'W March 13, 1951 1255 GCT Wire angle: 15°
 Sounding: 900 fms. Depth of observation: 1,141 m. Weather: partly cloudy
 Sea: rough Wind: 070°, 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	14.25	33.43	24.94	302.5	.0000	5.46	.38
10	14.31	33.35	24.87	309.8	.0307	5.50	.39
20	14.31	33.48	24.97	300.7	.0614	5.47	.41
30	14.27	33.48	24.98	300.0	.0916	5.41	.41
50	13.78	33.46	25.06	292.3	.1511	5.24	.42
75	12.98	33.50	25.26	274.5	.2223	5.10	.62
100	10.64	33.62	25.79	224.3	.2851	3.52	1.36
150	9.31	34.03	26.33	173.2	.385	2.41	1.90
200	9.02	34.28	26.57	151.3	.467	1.94	2.20
250	8.94	34.36	26.65	145.0	.541	1.14	2.54
300	8.84	34.39	26.69	142.1	.614	.53	2.77
400	7.64	34.40	26.88	125.1	.748	.44	2.87
500	6.84	34.40	26.99	115.4	.870	.32	2.98
600	6.04	34.50	27.17	98.7	.978	.24	3.08
700	5.42	34.53	27.27	89.5	1.073	.24	3.14
800	4.92	34.55	27.35	82.6	1.160	.28	3.18
1000	4.22	34.59	27.46	73.2	1.317	.49	3.22

STATION 113.40 (Interpolated Values at Standard Depths)

CREST: 29°00'N 115°59'W March 13, 1951 0852 GCT Wire angle: 6°
 Sounding: 400 fms. Depth of observation: 681 m. Weather: clear
 Sea: rough Wind: 320°, force 4

0	14.30	33.55	25.02	294.8	.0000	5.62	.41
10	14.31	33.35	24.85	311.7	.0305	5.67	.38
20	14.12	33.49	25.02	296.1	.0610	5.67	.38
30	13.79	33.49	25.08	289.7	.0904	5.66	.39
50	13.32	33.48	25.17	281.8	.1478	5.70	.48
75	11.99	33.44	25.40	260.5	.2160	4.72	.88
100	10.37	33.50	25.74	228.3	.2775	4.17	1.28
150	9.59	33.92	26.20	185.9	.382	3.10	1.76
200	9.02	34.16	26.48	160.2	.469	2.26	2.00
250	8.76	34.22	26.57	152.5	.548	1.60	2.08
300	8.12	34.27	26.70	140.2	.621	1.00	2.40
400	7.22	34.25	26.82	130.1	.757	.63	2.76
500	6.45	34.40	27.04	110.0	.879	.37	2.88
600	6.09	34.42	27.10	105.2	.987	.25	2.94

STATION 113.50 (Interpolated Values at Standard Depths)

CREST: 28°40.5'N 116°38.5'W March 13, 1951 0309 GCT Wire angle: 12°
 Sounding: 1,950 fms. Depth of observation: 1,161 m. Weather: partly cloudy
 Sea: rough Wind: 060°, 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	15.52	33.42	24.66	329.0	.0000	4.96	.51
10	15.27	33.38	24.69	327.1	.0329	4.77	.49
20	15.22	33.44	24.74	322.0	.0655	4.98	.49
30	15.18	33.52	24.81	315.6	.0975	5.13	.49
50	15.08	33.55	24.86	312.0	.1606	5.21	.52
75	13.33	33.46	25.16	284.1	.2355	5.07	.72
100	11.94	33.58	25.52	249.9	.3027	4.58	1.12
150	10.37	33.71	25.90	214.0	.420	3.42	1.70
200	9.02	34.10	26.43	164.6	.515	2.61	2.12
250	8.74	34.19	26.55	154.5	.595	1.96	2.43
300	8.51	34.24	26.62	148.3	.671	1.37	2.66
400	7.63	34.39	26.87	125.9	.810	.59	2.96
500	7.03	34.46	27.01	113.7	.930	.34	3.14
600	5.96	34.47	27.16	99.8	1.033	.37	3.24
700	5.42	34.43	27.20	96.8	1.137	.40	3.29
800	4.95	34.44	27.26	91.2	1.232	.38	3.32
1000	4.24	34.61	27.47	71.9	1.397	.36	3.34

STATION 113.60 (Interpolated Values at Standard Depths)

CREST: 28°21.5'N 117°18'W March 12, 1951 0923 GCT Wire angle: 1°
 Sounding: 2,000 fms. Depth of observation: 1,183 m. Weather: cloudy
 Sea: moderate Wind: 240°, force 2

0	15.96	(33.68)	24.76	319.4	.0000	-	-
10	15.56	33.68	24.85	311.2	.0317	5.52	.60
20	15.57	33.78	24.93	304.3	.0626	5.45	.65
30	15.57	33.84	24.98	300.1	.0929	5.43	.66
50	15.54	33.89	25.02	296.4	.1529	5.48	.61
75	14.70	33.80	25.14	286.4	.2261	4.17	.83
100	12.44	33.87	25.65	237.9	.2921	3.54	1.65
150	10.72	34.13	26.17	189.1	.400	2.13	2.38
200	10.66	34.40	26.39	169.1	.490	1.64	2.69
250	9.88	34.39	26.52	157.6	.572	1.34	2.80
300	8.89	34.38	26.67	143.6	.648	1.09	2.86
400	7.98	34.49	26.90	123.5	.783	.62	3.02
500	6.89	34.45	27.02	112.3	.901	.38	3.21
600	6.22	34.56	27.20	96.6	1.007	.25	3.32
700	5.61	34.53	27.25	91.9	1.102	.29	3.32
800	4.99	34.51	27.31	86.5	1.192	.35	3.35
1000	4.20	34.66	27.52	67.6	1.348	.58	3.40

STATION 113.70 (Interpolated Values at Standard Depths)

CREST: 28°02'N 117°57.5'W March 12, 1951 1526 GCT Wire angle: 14°
 Sounding: 2,000 fms. Depth of observation: 1,042 m. Weather: partly cloudy
 Sea: moderate Wind: 040°, 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	15.01	33.68	24.97	299.6	.0000	5.16	.55
10	15.03	33.56	24.88	309.0	.0306	5.21	.51
20	14.98	33.70	24.99	298.0	.0610	5.34	.54
30	14.70	33.72	25.07	291.1	.0906	5.34	.66
50	12.92	33.75	25.46	254.2	.1454	4.06	1.12
75	11.63	33.78	25.73	299.1	.2061	3.44	1.58
100	10.33	33.78	25.97	207.2	.2610	3.11	2.06
150	10.35	34.27	26.34	172.5	.357	1.73	2.60
200	10.15	34.68	26.70	139.8	.435	.77	2.82
250	9.67	34.67	26.77	133.8	.504	.59	2.92
300	8.89	34.61	26.85	126.7	.570	.53	2.99
400	7.52	34.53	27.00	113.7	.691	.50	3.12
500	6.60	34.45	27.06	108.4	.803	.34	3.20
600	5.91	34.47	27.17	99.0	.908	.35	3.28
700	5.36	34.53	27.28	88.6	1.002	.42	3.34
800	4.88	34.58	27.38	80.0	1.087	.49	3.38
1000	4.08	34.57	27.46	72.9	1.242	.60	3.36

STATION 117.35 (Interpolated Values at Standard Depths)

CREST: 28°38'N 115°16'W March 11, 1951 1247 GCT Wire angle: 17°
 Sounding: 96 fms. Depth of observation: 141 m. Weather: partly cloudy
 Sea: missing Wind: 320°, force 5

0	13.04	33.46	25.21	276.8	.0000	5.42	.79
10	13.00	33.36	25.14	283.6	.0281	5.34	.79
20	12.86	33.49	25.27	271.5	.0560	5.32	.81
30	12.62	33.47	25.30	269.0	.0831	5.28	.82
50	12.07	33.42	25.37	262.9	.1366	5.16	1.00
75	10.57	33.59	25.78	224.8	.1979	4.82	1.48
100	10.44	33.88	26.02	201.6	.2515	3.11	1.85

STATION 117.40 (Interpolated Values at Standard Depths)

CREST: 28°27.5'N 115°35'W March 11, 1951 1600 GCT Wire angle: 7°
 Sounding: 520 fms. Depth of observation: 705 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 ($\mu\text{g at/L}$)
0	14.33	33.46	24.95	301.9	.0000	5.62	.63
10	14.34	33.33	24.85	311.9	.0308	5.73	.65
20	14.32	33.34	24.86	310.9	.0621	5.64	.67
30	14.27	33.37	24.89	308.0	.0931	5.49	.70
50	12.30	33.47	25.37	263.2	.1506	5.14	1.01
75	11.02	33.62	25.72	230.2	.2126	4.15	1.56
100	10.18	33.86	26.05	198.8	.2665	2.82	2.03
150	10.27	34.43	26.48	159.3	.357	1.21	2.59
200	9.78	34.52	26.64	145.5	.433	.69	2.94
250	9.39	34.51	26.69	140.9	.505	.48	2.98
300	8.98	34.52	26.77	134.7	.575	.50	3.00
400	8.56	34.38	26.72	140.5	.714	.44	3.06
500	7.37	34.49	26.99	116.4	.843	.34	3.11
600	6.23	34.49	27.14	101.9	.953	.24	3.17
700	5.53	34.51	27.25	92.3	1.051	.28	3.26

STATION 117.50 (Interpolated Values at Standard Depths)

CREST: 28°08'N 116°15'W March 11, 1951 2142 GCT Wire angle: 29°
 Sounding: 2,100 fms. Depth of observation: 1,242 m. Weather: overcast
 Sea: rough Wind: 320°, force 4

0	14.91	33.37	24.76	320.2	.0000	5.56	-
10	14.89	33.33	24.73	322.9	.0323	5.46	-
20	14.81	33.45	24.84	312.7	.0642	5.47	-
30	14.66	33.44	24.87	310.6	.0955	5.50	-
50	13.88	33.37	24.98	300.5	.1569	5.58	-
75	11.70	33.45	25.46	254.7	.2267	4.87	-
100	10.91	33.73	25.82	220.6	.2865	3.54	-
150	10.49	34.18	26.25	181.4	.388	1.93	-
200	10.35	34.53	26.55	154.2	.472	.86	-
250	10.14	34.54	26.59	151.2	.549	.69	-
300	9.26	34.52	26.72	139.0	.622	.62	-
400	7.83	34.41	26.85	128.0	.757	.47	-
500	6.86	34.47	27.05	109.7	.877	.37	-
600	6.00	34.40	27.10	105.7	.985	.30	-
700	5.41	34.44	27.20	96.0	1.087	.30	-
800	4.94	34.52	27.32	85.2	1.179	.34	-
1000	4.17	34.58	27.46	73.1	1.339	.54	-

STATION 117.60 (Interpolated Values at Standard Depths)

CREST: 27°48'N 116°55'W March 12, 1951 0330 GCT Wire angle: 2°
 Sounding: 2,100 fms. Depth of observation: 1,273 m. Weather: partly cloudy
 Sea: rough Wind: 330°, 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	15.12	33.40	24.74	322.2	.0000	5.46	.59
10	15.14	33.40	24.73	322.9	.0324	5.26	.57
20	15.19	33.48	24.78	318.5	.0646	5.31	.57
30	15.29	33.70	24.93	304.6	.0959	5.37	.58
50	15.50	33.78	24.94	303.6	.1570	5.34	.63
75	15.47	33.73	24.91	307.4	.2338	5.32	.60
100	14.28	33.76	25.19	281.4	.3079	3.38	1.36
150	11.97	34.08	25.90	214.7	.433	2.47	2.16
200	10.85	34.38	26.34	173.9	.531	2.03	2.53
250	10.16	34.52	26.57	152.9	.613	1.57	2.80
300	9.74	34.59	26.70	141.8	.662	1.07	2.96
400	8.36	34.43	26.79	133.9	.801	.40	3.09
500	7.06	34.41	26.97	117.7	.928	.27	3.20
600	6.06	34.47	27.15	101.2	1.038	.27	3.27
700	5.45	34.50	27.25	91.9	1.136	.29	3.33
800	5.00	34.51	27.31	86.6	1.226	.35	3.38
1000	4.19	34.57	27.45	74.1	1.388	.50	3.37

STATION 117.70 (Interpolated Values at Standard Depths)

CREST: 27°28'N 117°34.5'W March 12, 1951 0909 GCT Wire angle: 14°
 Sounding: 1,950 fms. Depth of observation: 1,212 m. Weather: partly cloudy
 Sea: rough Wind: 360°, force 4

0	15.23	33.49	24.78	318.0	.0000	5.63	.62
10	15.25	33.46	24.75	320.9	.0321	5.57	.59
20	15.20	33.62	24.89	308.4	.0637	5.60	.59
30	14.96	33.61	24.93	304.4	.0944	5.60	.64
50	13.25	33.46	25.17	281.9	.1533	5.20	1.05
75	11.29	33.54	25.61	240.7	.2190	4.24	1.51
100	10.67	33.90	26.00	204.1	.2750	2.92	1.99
150	10.51	34.25	26.30	176.6	.371	1.57	2.46
200	9.36	34.39	26.52	156.3	.455	1.50	2.69
250	9.14	34.45	26.68	141.6	.530	1.19	2.86
300	8.67	34.49	26.79	132.0	.598	.79	2.99
400	7.68	34.52	26.97	116.8	.724	.37	3.16
500	6.58	34.48	27.09	105.7	.836	.33	3.28
600	5.87	34.46	27.16	99.4	.940	.26	3.31
700	5.38	34.51	27.26	90.3	1.035	.27	3.34
800	4.88	34.59	27.39	79.2	1.121	.33	3.36
1000	4.01	34.52	27.43	75.8	1.278	.56	3.30

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°03'N 114°54'W March 18, 1951 1040 GCT Wire angle: 4°
 Sounding: 46 fms. Depth of observation: 75 m. Weather: partly cloudy
 Sea: slight Wind: 360°, 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	13.84	33.62	25.17	280.5	.0000	5.59	.64
10	13.86	33.42	25.02	295.7	.0289	5.77	.59
20	13.13	33.73	25.40	259.1	.0568	5.30	.76
30	12.40	33.72	25.54	246.5	.0822	4.71	1.20
50	11.70	33.68	25.64	237.1	.1308	3.62	1.59
75	11.10	33.88	25.91	212.6	.1873	2.12	2.20

STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°41.5'N 115°33'W March 18, 1951 0530 GCT Wire angle: 26°
 Sounding: 1,280 fms. Depth of observation: 1,145 m. Weather: partly cloudy
 Sea: moderate Wind: 330°, force 4

0	14.90	33.73	25.04	293.6	.0000	5.95	.54
10	14.94	33.58	24.91	305.8	.0301	5.93	.58
20	14.55	33.74	25.12	286.3	.0598	5.73	.64
30	13.29	33.76	25.40	260.2	.0872	4.73	.74
50	11.96	33.79	25.68	233.3	.1368	3.60	1.58
75	11.06	33.99	26.00	203.6	.1918	3.11	2.02
100	10.15	33.96	26.14	191.0	.2414	2.68	2.18
150	10.10	34.30	26.41	166.1	.331	1.68	2.53
200	10.18	34.51	26.56	153.0	.412	.75	2.77
250	9.81	34.59	26.68	142.0	.486	.47	2.92
300	9.30	34.59	26.77	134.7	.556	.33	3.02
400	8.03	34.45	26.86	127.3	.688	.29	3.10
500	6.88	34.47	27.04	110.7	.808	.29	3.17
600	6.16	34.62	27.25	91.3	.910	.23	3.24
700	5.51	34.63	27.34	83.2	.998	.28	3.29
800	4.97	34.60	27.38	79.6	1.080	.31	3.35
1000	4.26	34.55	27.42	76.5	1.238	.46	3.43

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°31'N 115°52.5'W March 18, 1951 0046 GCT Wire angle: 9°
 Sounding: 2,150 fms. Depth of observation: 1,179 m. Weather: cloudy
 Sea: rough Wind: 050°, 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 (ug at/L)
0	16.06	33.87	24.89	307.8	.0000	4.61	.55
10	15.93	33.75	24.82	314.1	.0312	5.29	.57
20	15.78	33.91	24.98	299.5	.0620	5.30	.61
30	15.62	33.91	25.02	296.3	.0919	5.21	.66
50	13.52	33.59	25.22	277.5	.1496	4.72	1.02
75	11.47	33.75	25.74	228.4	.2132	3.72	1.53
100	10.45	33.84	25.99	204.7	.2677	3.14	1.78
150	10.06	34.39	26.49	158.1	.359	1.66	2.42
200	9.63	34.45	26.61	148.3	.436	1.04	2.69
250	9.21	34.45	26.67	142.6	.509	.68	2.82
300	8.80	34.44	26.73	137.9	.580	.47	2.90
400	7.85	34.47	26.90	123.0	.712	.31	3.02
500	6.88	34.56	27.11	104.1	.826	.31	3.17
600	6.00	34.51	27.19	97.5	.928	.24	3.23
700	5.42	34.47	27.23	93.9	1.024	.31	3.31
800	4.94	34.43	27.25	91.7	1.118	.42	3.35
1000	4.17	34.50	27.39	78.9	1.291	.58	3.32

STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°11.5'N 116°32'W March 17, 1951 1520, 1745, 1849 GCT Wire
 angles: 33°, 30°, 33° Sounding: 2,050 fms. Depths of observation: 1,071,
 1,664, 3,040 m. Weather: cloudy Sea: rough Wind: 270°, force 4

0	15.74	33.57	24.73	322.9	.0000	5.46	.51
10	15.75	33.52	24.69	327.1	.0326	5.44	.50
20	15.66	33.57	24.75	321.7	.0652	5.25	.51
30	15.51	33.63	24.83	314.4	.0971	5.33	.50
50	15.08	33.73	25.00	298.7	.1588	5.37	.49
75	13.72	33.84	25.37	263.7	.2294	4.50	1.55
100	11.86	33.91	25.79	234.1	.2921	3.01	1.66
150	10.33	33.99	26.13	192.9	.400	2.88	1.77
200	10.03	34.39	26.49	159.3	.488	1.26	2.48
250	9.39	34.48	26.67	143.1	.564	.86	2.70
300	8.57	34.46	26.78	133.0	.634	.68	2.89
400	7.44	34.44	26.94	119.3	.761	.44	3.05
500	6.69	34.48	27.07	107.4	.875	.29	3.07
600	5.76	34.42	27.15	100.8	.980	.30	3.11
700	5.07	34.42	27.23	93.1	1.078	.31	3.17
800	4.66	34.47	27.32	85.4	1.168	.38	3.21
1000	3.99	34.59	27.48	70.4	1.326	.62	3.22
1200	3.52	34.60	27.54	65.6	1.464	.78	3.16
1500	2.85	34.60	27.60	59.9	1.654	1.08	2.98
2000	2.15	34.65	27.69	50.3	1.934	1.82	3.10
2500	1.79	34.70	27.77	44.1	2.174	2.31	3.28
3000	1.60	34.72	27.80	41.4	2.392	2.47	3.26

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°52'N 117°10'W March 17, 1951 0914 GCT Wire angle: 17°
 Sounding: 2,150 fms. Depth of observation: 1,182 m. Weather: partly cloudy
 Sea: moderate 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	16.69	33.75	24.65	330.4	.0000	5.56	.54
10	16.68	33.60	24.54	341.5	.0337	5.41	.46
20	16.67	33.71	24.62	333.5	.0676	5.41	.49
30	16.64	33.71	24.63	333.2	.1011	5.41	.51
50	16.26	33.68	24.70	327.4	.1675	5.40	.52
75	15.92	33.64	24.74	323.7	.2493	5.49	.50
100	13.92	33.68	25.20	280.1	.3253	4.91	.86
150	10.39	33.95	26.09	196.7	.445	3.14	1.91
200	9.44	34.25	26.48	159.9	.535	1.98	2.34
250	9.06	34.38	26.64	145.4	.612	1.33	2.64
300	8.72	34.43	26.74	137.5	.683	.84	2.85
400	7.72	34.45	26.91	122.5	.814	.40	2.97
500	6.48	34.33	26.98	115.5	.934	.35	3.13
600	5.79	34.51	27.21	94.6	1.040	.32	3.28
700	5.28	34.55	27.31	86.1	1.131	.34	3.34
800	4.69	34.56	27.38	79.0	1.215	.40	3.35
1000	3.93	34.51	27.42	75.7	1.371	.59	3.32

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°32.5'N 117°48.5'W March 17, 1951 0340 GCT Wire angle: 26°
 Sounding: 2,100 fms. Depth of observation: 917 m. Weather: cloudy
 Sea: moderate Wind: 320°, force 3

0	17.41	33.82	24.53	341.5	.0000	5.11	.50
10	17.39	33.69	24.44	350.8	.0348	5.32	.46
20	17.25	33.75	24.52	343.5	.0696	5.35	.48
30	17.15	33.78	24.56	339.5	.1039	5.36	.48
50	17.06	33.80	24.60	336.5	.1718	5.36	.47

STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°13'N 118°27.5'W March 16, 1951 2016 GCT Wire angle: 15°
 Sounding: 2,250 fms. Depth of observation: 1,229 m. Weather: partly cloudy
 Sea: moderate 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 (μ g at/L)
0	17.51	33.82	24.51	343.8	.0000	5.37	.52
10	17.27	33.67	24.45	349.5	.0348	5.37	.47
20	17.25	33.83	24.58	337.8	.0693	5.37	.53
30	17.22	33.83	24.58	337.5	.1032	5.38	.53
50	17.20	33.71	24.50	346.3	.1719	5.38	.47
75	16.60	33.74	24.66	331.2	.2571	5.40	.51
100	14.75	33.80	25.12	288.0	.3350	4.95	.64
150	11.05	33.93	25.96	209.5	.460	3.11	1.61
200	9.72	34.15	26.36	172.0	.556	2.27	2.13
250	8.78	34.26	26.59	149.9	.637	1.77	2.40
300	7.99	34.30	26.75	136.1	.709	1.32	2.61
400	7.03	34.34	26.92	121.0	.839	.80	2.95
500	6.28	34.44	27.09	104.9	.953	.53	3.06
600	5.57	34.40	27.15	99.9	1.056	.37	3.17
700	5.02	34.39	27.21	94.6	1.154	.36	3.24
800	4.65	34.44	27.29	87.5	1.246	.44	3.27
1000	3.93	34.58	27.48	70.5	1.406	.76	3.22

STATION 120.100 (Interpolated Values at Standard Depths)

CREST: 25°53.5'N 119°07'W March 16, 1951 1208, 1405 GCT Wire
 angles: 4°, 5° Sounding: 2,300 fms. Depths of observation: 1,250,
 3,306 m. Weather: clear Sea: rough Wind: 300°, force 4

0	17.02	33.77	24.59	336.2	.0000	5.04	.42
10	17.00	33.69	24.53	342.1	.0341	5.35	.43
20	16.94	33.63	24.50	345.5	.0686	4.99	.47
30	16.86	33.62	24.51	344.6	.1032	4.99	.50
50	16.45	33.73	24.69	327.9	.1708	5.42	.41
75	15.20	33.53	24.82	316.6	.2518	4.97	.45
100	12.34	33.58	25.44	257.2	.3240	4.31	.94
150	10.19	33.75	25.97	208.2	.441	3.50	1.55
200	9.00	34.01	26.36	170.9	.537	3.07	2.00
250	8.21	34.18	26.62	147.3	.617	2.83	2.35
300	7.64	34.25	26.76	134.6	.688	2.62	2.58
400	6.90	34.32	26.92	120.6	.816	1.55	2.96
500	6.14	34.41	27.09	105.3	.930	.56	3.10
600	5.38	34.40	27.18	97.4	1.032	.29	3.25
700	4.88	34.41	27.24	91.4	1.128	.27	3.29
800	4.49	34.46	27.33	83.9	1.216	.33	3.24
1000	3.81	34.49	27.42	75.7	1.378	.45	3.20
1200	3.27	34.58	27.55	64.1	1.519	.67	3.16
1500	2.71	34.58	27.60	59.7	1.707	1.00	3.10
2000	2.06	34.71	27.74	45.1	1.973	1.46	3.01
2500	1.79	34.73	27.79	41.9	2.195	1.74	3.13
3000	1.63	34.74	27.82	40.6	2.405	2.02	2.90

STATION 120.110 (Interpolated Values at Standard Depths)

CREST: 25°33'N 119°44'W March 16, 1951 0714 GCT Wire angle: 20°
 Sounding: 2,200 fms. Depth of observation: 1,106 m. Weather: clear
 Sea: moderate Wind: 320°, 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	17.21	33.73	24.51	343.5	.0000	(4.69)	.53
10	16.94	33.66	24.52	343.0	.0345	4.69	.48
20	16.90	33.75	24.60	335.6	.0685	4.78	.51
30	16.88	33.75	24.60	335.7	.1022	4.89	.52
50	16.77	33.70	24.59	337.2	.1699	5.05	.53
75	16.37	33.66	24.65	332.2	.2540	5.03	.50
100	12.50	33.55	25.39	262.3	.3288	5.12	.52
150	10.89	33.44	25.60	242.9	.456	4.57	.87
200	9.79	33.90	26.15	191.7	.565	3.59	1.65
250	9.09	34.10	26.42	166.4	.656	2.60	2.04
300	8.43	34.28	26.66	144.1	.734	1.56	2.47
400	7.32	34.36	26.89	123.5	.869	.43	2.99
500	6.44	34.38	27.03	111.5	.987	.27	3.16
600	5.73	34.43	27.16	99.8	1.094	.26	3.22
700	5.17	34.41	27.21	95.0	1.192	.32	3.22
800	4.72	34.47	27.31	86.2	1.284	.39	3.23
1000	4.04	34.59	27.48	71.0	1.442	.54	3.25

STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°18'N 114°53'W March 18, 1951 1640 GCT Wire angle: 8°
 Sounding: 300 fms. Depth of observation: 489 m. Weather: clear
 Sea: rough Wind: 320°, force 3

0	16.10	33.71	24.75	320.5	.0000	5.53	.52
10	16.09	33.66	24.72	324.2	.0324	5.37	.56
20	16.02	33.80	24.84	312.7	.0643	5.47	.57
30	15.37	33.80	24.99	299.2	.0951	5.46	.59
50	12.74	33.78	25.52	248.7	.1501	4.15	1.29
75	11.34	33.87	25.85	217.4	.2087	3.37	1.74
100	9.95	33.82	26.06	198.0	.2610	2.76	2.04
150	10.17	34.24	26.35	171.8	.354	1.64	2.46
200	10.35	34.59	26.59	151.1	.435	.89	2.74
250	10.29	34.69	26.68	142.6	.509	.38	2.86
300	9.74	34.61	26.71	140.6	.581	.37	2.96
400	8.29	34.61	26.94	119.5	.712	.27	2.97
500	(7.24)	(34.60)	(27.09)	(106.3)	(.826)	-	-

STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 26°58'N 115°30.5'W March 18, 1951 2210 GCT Wire angle: 4°
 Sounding: 1,750 fms. Depth of observation: 1,180 m. Weather: partly cloudy
 Sea: rough Wind: 300°, 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	16.58	33.76	24.68	327.2	.0000	5.10	.54
10	16.31	33.57	24.60	335.7	.0333	5.25	.52
20	16.14	33.57	24.64	332.3	.0668	5.28	.52
30	15.25	33.57	24.84	313.4	.0992	5.28	.54
50	14.04	33.66	25.16	282.7	.1591	5.22	.73
75	11.76	33.71	25.65	236.5	.2244	4.46	1.18
100	10.93	33.79	25.87	216.6	.2814	3.26	1.73
150	9.62	34.18	26.40	167.1	.378	2.33	2.15
200	8.42	34.16	26.57	150.9	.458	2.19	2.32
250	8.85	34.37	26.67	142.9	.532	.88	2.73
300	9.19	34.67	26.85	127.0	.600	.29	3.06
400	7.99	34.60	26.98	115.4	.722	.25	3.17
500	6.82	34.53	27.09	105.4	.834	.24	3.18
600	6.03	34.52	27.19	96.9	.936	.25	3.27
700	5.48	34.56	27.29	88.0	1.029	.27	3.28
800	5.00	34.60	27.38	80.0	1.114	.32	3.30
1000	4.05	34.60	27.49	70.3	1.266	.54	3.35

STATION 123.60 (Interpolated Values at Standard Depths)

CREST: 26°38.5'N 116°09'W March 19, 1951 0221 GCT Wire angle: 26°
 Sounding: 2,050 fms. Depth of observation: 1,100 m. Weather: partly cloudy
 Sea: rough Wind: 020°, force 4

0	16.46	33.60	24.59	336.4	.0000	5.04	.48
10	16.46	33.60	24.59	336.7	.0338	4.76	.48
20	16.29	33.56	24.59	336.2	.0676	4.44	.50
30	15.87	33.57	24.70	326.7	.1009	4.68	.50
50	15.17	33.60	24.88	310.1	.1649	5.21	.50
75	12.93	33.55	25.30	269.8	.2377	4.99	.84
100	11.42	33.51	25.56	245.9	.3026	3.64	1.36
150	10.13	33.99	26.16	189.5	.412	2.62	2.02
200	9.57	34.26	26.47	161.4	.501	1.84	2.45
250	8.97	34.39	26.67	143.3	.577	1.19	2.69
300	8.30	34.41	26.78	132.6	.647	1.01	2.83
400	7.03	34.37	26.94	118.8	.774	.56	3.03
500	6.35	34.43	27.08	106.5	.887	.36	3.20
600	5.56	34.46	27.20	95.3	.989	.33	3.24
700	5.14	34.55	25.32	84.4	1.080	.30	3.26
800	4.73	34.58	27.39	78.2	1.162	.37	3.27
1000	3.95	34.63	27.52	67.0	1.309	.61	3.22

STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°45'N 114°29'W March 19, 1951 1844 GCT Wire angle: 7°
 Sounding: 1,650 fms. Depth of observation: 1,165 m. Weather: clear
 Sea: rough Wind: 040°, 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	16.48	33.81	24.74	321.5	.0000	5.44	.47
10	16.40	33.70	24.68	328.1	.0326	5.52	.49
20	16.36	33.83	24.79	317.9	.0650	5.51	.50
30	16.27	33.84	24.82	315.5	.0968	5.49	.50
50	15.80	33.82	24.91	307.3	.1594	5.49	.53
75	13.25	33.75	25.40	261.3	.2309	4.07	1.29
100	11.46	33.88	25.84	219.2	.2914	3.06	1.77
150	10.31	34.14	26.25	181.3	.392	2.31	2.16
200	8.81	34.06	26.43	164.4	.479	2.48	2.24
250	9.03	34.31	26.60	150.1	.558	1.02	2.67
300	9.08	34.48	26.72	139.4	.631	.45	2.96
400	7.88	34.51	26.93	120.7	.762	.31	3.06
500	6.91	34.53	27.08	106.9	.877	.20	3.14
600	6.17	34.45	27.12	103.9	.983	.34	3.22
700	5.56	34.54	27.27	90.5	1.082	.42	3.24
800	5.00	34.57	27.36	82.2	1.169	.46	3.26
1000	4.19	34.53	27.41	77.2	1.330	.48	3.33

STATION 127.50 (Interpolated Values at Standard Depths)

CREST: 26°24'N 115°07'W March 19, 1951 1404 GCT Wire angle: 10°
 Sounding: 2,040 fms. Depth of observation: 1,176 m. Weather: partly cloudy
 Sea: moderate Wind: 040°, force 2

0	16.22	33.64	24.67	328.1	.0000	5.51	.68
10	16.24	33.66	24.68	327.5	.0329	5.51	.63
20	16.22	33.65	24.68	328.1	.0658	5.54	.63
30	16.15	33.63	24.68	328.3	.0988	5.57	.65
50	15.26	33.62	24.87	310.5	.1630	5.56	.66
75	12.35	33.37	25.28	272.4	.2362	4.88	1.24
100	11.50	33.76	25.74	228.7	.2993	3.26	1.88
150	9.59	33.85	26.14	191.1	.405	3.27	1.89
200	9.17	34.16	26.45	162.5	.494	1.92	2.33
250	9.21	34.41	26.64	145.6	.572	.76	2.57
300	9.31	34.47	26.67	143.7	.644	.34	2.75
400	7.75	34.42	26.88	125.2	.780	.27	3.03
500	6.74	34.43	27.03	111.7	.899	.24	3.07
600	5.95	34.51	27.19	96.7	1.005	.23	3.05
700	5.50	34.53	27.27	90.4	1.099	.29	3.11
800	5.06	34.53	27.32	85.9	1.183	.36	3.17
1000	4.19	34.59	27.46	72.7	1.348	.51	3.21

STATION 127.60 (Interpolated Values at Standard Depths)

CREST: 26°03.5'N 115°44.5'W March 19, 1951 0833 GCT Wire angle: 22°
 Sounding: 1,973 fms. Depth of observation: 1,171 m. Weather: clear
 Sea: rough Wind: 070°, force 5

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	17.46	33.78	24.49	345.5	.0000	5.31	.58
10	17.45	33.73	24.45	349.3	.0349	5.32	.54
20	17.42	33.90	24.59	336.4	.0693	5.31	.54
30	17.35	33.89	24.60	335.9	.1031	5.31	.57
50	17.25	33.87	24.61	335.7	.1706	5.35	.57
75	17.24	33.93	24.66	331.9	.2545	5.43	.56
100	17.22	33.77	24.54	343.8	.3395	5.57	.65
150	12.09	33.87	25.71	232.5	.485	4.05	1.57
200	10.57	34.23	26.27	180.3	.588	2.25	2.34
250	9.73	34.39	26.54	155.5	.673	1.55	2.65
300	8.97	34.43	26.70	141.4	.748	1.20	2.85
400	7.39	34.45	26.95	117.7	.878	.82	3.10
500	6.41	34.40	27.05	109.4	.993	.55	3.25
600	5.91	34.56	27.24	92.4	1.095	.40	3.37
700	5.45	34.47	27.22	94.3	1.189	.37	3.47
800	4.94	34.43	27.25	91.8	1.283	.39	3.51
1000	4.14	34.49	27.39	79.5	1.456	.64	3.47

STATION 130.35 (Interpolated Values at Standard Depths)

HORIZON: 26°14.5'N 113°48.5'W March 20, 1951 2052, 2120 GCT Wire
 angles: missing, 2° Sounding: 360 fms. Depths of observation: 499, 606 m.
 Weather: cloudy Sea: moderate Wind: 220°, force 3

0	17.10	33.68	24.50	344.6	.0000	4.92	.48
10	16.67	33.62	24.55	339.7	.0344	5.17	.48
20	16.49	33.74	24.69	327.3	.0678	5.10	.43
30	16.28	33.74	24.74	323.0	.1005	5.12	.44
50	15.23	33.66	24.91	307.0	.1638	5.27	.49
75	13.00	33.64	25.36	264.7	.2357	4.45	.81
100	10.74	33.76	25.88	215.7	.2961	3.78	1.40
150	11.88	34.69	26.39	168.4	.393	.68	2.52
200	11.51	34.65	26.43	165.9	.477	.70	2.61
250	10.68	34.63	26.57	153.7	.557	.47	2.71
300	10.05	34.61	26.66	145.7	.633	.37	2.77
400	8.78	34.54	26.81	132.2	.773	.27	2.84
500	7.32	34.61	27.09	106.6	.893	.30	2.96
600	6.45	34.61	27.21	95.9	.996	.28	3.05

STATION 130.40 (Interpolated Values at Standard Depths)

HORIZON: 26°09'N 114°07.5'W March 21, 1951 0035, 0105 GCT Wire
 angles: 7°, 4° Sounding: 1,250 fms. Depths of observation: 456, 1,200 m.
 Weather: cloudy Sea: moderate Wind: 320°, 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	17.48	33.68	24.41	353.4	.0000	5.34	.47
10	16.82	33.66	24.55	340.1	.0348	5.19	.45
20	16.64	33.69	24.62	334.2	.0687	5.07	.44
30	15.75	33.68	24.81	315.9	.1013	5.07	.43
50	14.15	33.56	25.06	292.3	.1624	5.32	.41
75	12.25	33.48	25.38	262.3	.2321	4.50	.40
100	11.37	33.63	25.66	236.0	.2948	3.90	.50
150	10.29	34.03	26.17	189.1	.402	3.00	1.58
200	9.25	34.26	26.52	156.4	.489	2.14	2.30
250	8.86	34.37	26.67	143.0	.564	1.30	2.67
300	8.74	34.45	26.75	136.4	.635	.62	2.72
400	8.00	34.60	26.98	115.6	.762	.23	2.92
500	7.10	34.59	27.10	104.9	.873	.20	3.04
600	6.38	34.56	27.18	98.7	.976	.23	3.08
700	5.77	34.55	27.25	92.5	1.072	.26	3.11
800	5.20	34.54	27.31	87.1	1.163	.29	3.14
1000	4.41	34.51	27.38	81.3	1.333	.62	3.18

STATION 130.50 (Interpolated Values at Standard Depths)

HORIZON: 25°47'N 114°47.5'W March 21, 1951 0655 GCT Wire angle: 25°
 Sounding: 1,800 fms. Depth of observation: 1,015 m. Weather: partly cloudy
 Sea: slight Wind: 320°, force 3

0	17.30	33.95	24.66	329.4	.0000	5.40	.31
10	17.28	33.66	24.44	350.5	.0341	5.39	.35
20	17.27	33.75	24.51	343.9	.0690	5.40	.34
30	17.23	33.84	24.59	337.0	.1032	5.36	.33
50	17.14	33.87	24.63	333.3	.1705	5.37	.35
75	16.05	33.76	24.80	318.0	.2524	5.50	.43
100	14.84	33.64	24.98	301.8	.3304	5.62	.43
150	11.52	33.85	25.81	223.5	.463	3.85	1.39
200	9.45	33.87	26.18	188.3	.566	2.62	1.99
250	8.43	33.87	26.34	173.5	.657	2.01	2.24
300	7.92	34.28	26.74	136.4	.735	1.51	2.46
400	7.23	34.53	27.04	109.6	.859	.70	2.83
500	7.13	34.61	27.11	103.9	.967	.22	3.06
600	6.34	34.53	27.16	100.4	1.070	.26	3.10
700	5.38	34.55	27.30	87.5	1.165	.29	3.10
800	4.85	34.67	27.45	73.1	1.246	.29	3.13
1000	4.12	34.76	27.60	59.3	1.380	.52	3.26

STATION 130.60 (Interpolated Values at Standard Depths)

HORIZON: 25°26'N 115°27.5'W March 21, 1951 1251, 1322, 1431 GCT Wire angles: 4°, missing, 10° Sounding: 1,910 fms. Depths of observation: 795, 1,197, 3,048 m. Weather: cloudy Sea: moderate Wind: 320°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg.cm ³)	$10^5 \sigma$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	17.55	33.82	24.50	342.8	.0000	5.07	.42
10	17.56	33.73	24.43	351.7	.0349	5.25	.54
20	17.50	33.90	24.57	338.4	.0695	5.19	.36
30	17.42	33.94	24.62	333.8	.1032	5.14	.36
50	17.25	33.95	24.67	329.9	.1699	5.20	.38
75	16.82	33.73	24.60	336.9	.2538	5.12	.39
100	15.90	33.78	24.85	313.8	.3356	5.25	.43
150	12.45	33.91	25.68	236.2	.474	4.39	.92
200	11.05	34.33	26.27	181.1	.579	2.00	2.01
250	10.26	34.43	26.48	161.3	.665	1.23	2.34
300	9.63	34.48	26.63	148.1	.743	.77	2.53
400	7.71	34.49	26.94	119.5	.878	.47	2.85
500	6.46	34.37	27.02	112.2	.995	.43	3.06
600	6.05	34.58	27.24	92.7	1.098	.30	3.09
700	5.52	34.61	27.33	84.8	1.188	.33	3.14
800	4.89	34.60	27.39	78.6	1.270	.36	3.20
1000	4.19	34.56	27.44	75.0	1.426	.44	3.21
1200	3.62	34.56	27.50	69.7	1.572	.54	3.17
1500	2.95	34.62	27.61	59.5	1.769	.70	3.23
2000	2.12	34.68	27.73	47.9	2.041	1.93	3.14
2500	1.78	34.73	27.80	41.3	2.268	2.27	2.87
3000	1.65	34.71	27.79	43.1	2.483	2.60	2.67

STATION 130.70 (Interpolated Values at Standard Depths)

HORIZON: 25°11'N 116°05'W March 21, 1951 2023 GCT Wire angle: 4°
Sounding: 1,840 fms. Depth of observation: 1,163 m. Weather: cloudy
Sea: slight Wind: calm

0	17.99	33.95	24.49	345.9	.0000	5.13	-
10	17.57	33.77	24.46	349.1	.0349	5.14	-
20	17.45	33.79	24.50	345.2	.0697	5.23	-
30	17.39	33.81	24.53	342.7	.1043	5.27	-
50	17.30	33.82	24.56	340.5	.1729	5.19	-
75	16.82	33.78	24.64	333.2	.2576	5.20	-
100	14.52	33.71	25.10	290.2	.3360	5.22	-
150	11.87	34.02	25.88	217.2	.464	2.52	-
200	9.23	34.04	26.35	172.2	.562	1.35	-
250	9.36	34.40	26.61	148.8	.643	.88	-
300	9.50	34.60	26.74	137.3	.715	.71	-
400	8.18	34.45	26.84	129.6	.849	.33	-
500	7.37	34.60	27.07	108.2	.969	.27	-
600	6.56	34.54	27.14	102.6	1.075	.30	-
700	5.89	34.54	27.23	94.8	1.175	.30	-
800	5.27	34.55	27.31	87.2	1.267	.31	-
1000	4.13	34.55	27.44	75.0	1.431	.62	-

STATION 130.80 (Interpolated Values at Standard Depths)

HORIZON: 24°49'N 116°46.5'W March 22, 1951 0130 GCT Wire angle: 5°
 Sounding: 2,030 fms. Depth of observation: 1,193 m. Weather: cloudy
 Sea: slight Wind: 290°, 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	18.19	33.95	24.44	350.0	.0000	5.33	-
10	17.63	33.78	24.45	349.7	.0351	5.26	-
20	17.39	33.77	24.50	345.3	.0700	5.30	-
30	17.05	33.76	24.57	338.6	.1043	5.35	-
50	16.12	33.69	24.73	323.7	.1709	5.40	-
75	15.00	33.73	25.01	297.8	.2490	5.52	-
100	12.58	33.92	25.66	236.4	.3162	3.53	-
150	11.52	34.40	26.23	183.1	.422	1.48	-
200	10.81	34.64	26.55	154.2	.507	.98	-
250	10.34	34.67	26.66	145.1	.582	.57	-
300	9.94	34.67	26.72	139.4	.654	.38	-
400	8.42	34.54	26.87	126.6	.788	.30	-
500	7.13	34.51	27.04	111.3	.908	.23	-
600	6.39	34.51	27.14	102.5	1.016	.28	-
700	5.87	34.55	27.24	93.8	1.115	.32	-
800	5.37	34.55	27.30	88.6	1.207	.33	-
1000	4.14	34.56	27.44	74.5	1.372	.57	-

STATION 133.40 (Interpolated Values at Standard Depths)

HORIZON: 25°37.5'N 113°43'W March 20, 1951 0747 GCT Wire angle: 15°
 Sounding: 1,250 fms. Depth of observation: 1,143 m. Weather: clear
 Sea: moderate Wind: 320°, force 2-3

0	16.80	33.73	24.61	334.2	.0000	5.30	.42
10	16.75	33.69	24.59	336.4	.0337	5.40	.38
20	16.50	33.82	24.75	321.6	.0667	5.45	.39
30	15.93	33.82	24.88	309.6	.0984	5.47	.41
50	15.53	33.82	24.97	301.5	.1598	5.37	.46
75	12.73	33.61	25.39	261.7	.2306	4.75	.75
100	11.00	33.81	25.87	216.4	.2907	3.90	1.34
150	12.00	34.48	26.20	186.1	.392	1.07	2.39
200	10.80	34.62	26.54	155.5	.478	.98	2.46
250	10.26	34.68	26.68	142.9	.553	.44	2.62
300	9.80	34.70	26.77	134.8	.623	.34	2.75
400	8.72	34.68	26.93	120.9	.752	.24	2.82
500	7.57	34.62	27.06	109.7	.868	.25	2.92
600	6.63	34.49	27.09	107.2	.978	.25	3.03
700	5.90	34.51	27.20	97.2	1.081	.32	3.06
800	5.28	34.55	27.31	87.3	1.174	.39	3.08
1000	4.40	34.64	27.48	71.6	1.335	.56	3.13

STATION 133.50 (Interpolated Values at Standard Depths)

HORIZON: 25°14.5'N 114°25'W March 20, 1951 0151 GCT Wire angle: 7°
 Sounding: 1,550 fms. Depth of observation: 1,170 m. Weather: clear
 Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg.cm ³)	$10^3\delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	18.07	33.77	24.33	360.4	.0000	5.26	.41
10	17.51	33.75	24.45	349.3	.0356	5.25	.35
20	17.48	33.85	24.54	341.6	.0703	5.22	.34
30	17.45	33.85	24.54	341.3	.1046	5.22	.34
50	17.10	33.77	24.57	339.6	.1730	5.26	.34
75	15.54	33.71	24.88	310.5	.2547	5.32	.38
100	14.30	33.80	25.22	279.1	.3289	5.37	.59
150	11.16	34.01	26.00	205.5	.451	2.85	1.70
200	11.08	34.46	26.36	172.2	.546	1.13	2.33
250	10.79	34.68	26.58	152.0	.628	.55	2.52
300	10.10	34.70	26.72	139.9	.701	.38	2.65
400	8.48	34.70	26.98	115.8	.830	.44	2.88
500	7.34	34.59	27.07	108.4	.943	.25	2.92
600	6.38	34.54	27.16	100.2	1.048	.26	3.04
700	5.68	34.57	27.28	89.8	1.144	.29	3.09
800	5.03	34.60	27.38	80.4	1.230	.33	3.12
1000	4.23	34.55	27.43	76.4	1.389	.47	3.14

STATION 133.60 (Interpolated Values at Standard Depths)

HORIZON: 24°52.5'N 115°03.5'W March 19, 1951 1939 GCT Wire angle: 15°
 Sounding: 1,900 fms. Depth of observation: 1,117 m. Weather: clear
 Sea: rough Wind: 020°, force 2

0	17.60	33.73	24.42	352.3	.0000	5.20	.40
10	17.34	33.68	24.44	350.5	.0353	5.15	.37
20	16.05	33.55	24.64	331.8	.0695	5.22	.43
30	15.95	33.56	24.67	329.1	.1027	5.24	.43
50	15.86	33.63	24.75	322.5	.1682	5.23	.40
75	14.90	33.70	25.01	297.8	.2462	5.25	.56
100	12.70	33.57	25.36	264.7	.3169	3.95	1.14
150	12.28	34.43	26.11	194.9	.433	1.15	2.32
200	11.50	34.58	26.38	170.7	.525	.45	2.66
250	10.77	34.59	26.52	158.3	.608	.33	2.82
300	10.11	34.59	26.63	148.2	.685	.30	2.93
400	8.75	34.53	26.81	132.4	.826	.20	2.99
500	7.25	34.50	27.01	113.7	.950	.20	3.03
600	6.34	34.51	27.14	101.8	1.059	.20	3.15
700	5.77	34.53	27.23	94.0	1.158	.25	3.19
800	5.25	34.54	27.30	87.7	1.250	.27	3.20
1000	4.31	34.55	27.42	77.2	1.416	.45	3.20

STATION 137.35 (Interpolated Values at Standard Depths)

HORIZON: 25°10.5'N 113°04'W March 18, 1951 2254 GCT Wire angle: 12°
 Sounding: 800 fms. Depth of observation: 1,151 m. Weather: partly cloudy
 Sea: moderate Wind: 340°, 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	17.60	33.84	24.50	344.4	.0000	5.42	.57
10	17.05	33.77	24.58	337.3	.0342	5.49	.49
20	16.46	33.88	24.80	316.4	.0670	5.57	.52
30	15.94	33.93	24.96	301.7	.0981	5.58	.54
50	14.87	33.90	25.17	282.0	.1567	5.13	.61
75	13.08	33.73	25.41	259.5	.2248	4.19	1.20
100	12.21	34.07	25.85	218.8	.2850	2.28	1.80
150	12.18	34.70	26.34	173.4	.384	.53	2.49
200	11.36	34.70	26.49	159.6	.468	.27	2.65
250	10.84	34.69	26.58	152.3	.546	.26	2.76
300	10.40	34.68	26.65	146.5	.621	.27	2.85
400	8.85	34.56	26.82	131.8	.762	.25	2.91
500	7.62	34.55	27.00	115.5	.886	.26	3.01
600	6.55	34.64	27.22	95.2	.993	.35	3.13
700	5.89	34.64	27.30	87.3	1.085	.40	3.13
800	5.38	34.62	27.35	83.5	1.171	.45	3.14
1000	4.27	34.57	27.44	75.3	1.332	.57	-

STATION 137.40 (Interpolated Values at Standard Depths)

HORIZON: 24°58.5'N 113°24.5'W March 19, 1951 0247 GCT Wire angle: 10°
 Sounding: 1,650 fms. Depth of observation: 1,173 m. Weather: partly cloudy
 Sea: rough Wind: 320°, force 3

0	17.53	33.86	24.53	341.6	.0000	5.38	.50
10	17.15	33.98	24.72	324.2	.0334	5.21	.43
20	16.92	33.93	24.73	323.0	.0659	5.32	.46
30	16.73	33.88	24.74	322.7	.0983	5.38	.50
50	15.35	33.79	24.98	300.0	.1609	5.30	.57
75	13.08	33.73	25.41	259.5	.2312	4.52	.90
100	11.63	33.86	25.79	223.7	.2920	2.82	1.65
150	11.02	34.35	26.29	178.1	.393	1.38	2.29
200	10.48	34.49	26.49	159.5	.478	.91	2.46
250	10.02	34.53	26.60	149.9	.556	.59	2.60
300	9.58	34.54	26.68	142.9	.630	.39	2.74
400	8.41	34.52	26.86	128.1	.766	.26	2.87
500	7.48	34.54	27.01	114.1	.889	.24	2.96
600	6.58	34.58	27.17	100.0	.997	.27	2.99
700	5.88	34.50	27.20	97.5	1.096	.30	3.02
800	5.27	34.48	27.25	92.3	1.192	.32	3.06
1000	4.28	34.60	27.46	73.1	1.359	.53	3.12

STATION 137.50 (Interpolated Values at Standard Depths)

HORIZON: 24°41'N 114°01.5'W March 19, 1951 0830 GCT Wire angle: 5°
 Sounding: 2,150 fms. Depth of observation: 1,028 m. Weather: clear
 Sea: moderate Wind: 320°, force 3

Depth (m)	T (°C)	C (%)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (µg at/L)
0	17.15	33.80	24.58	337.0	.0000	5.23	.40
10	17.15	33.78	24.56	338.9	.0339	5.40	.45
20	16.70	33.73	24.64	332.7	.0676	5.40	.41
30	16.14	33.74	24.77	320.2	.1004	5.39	.41
50	16.08	33.80	24.83	314.8	.1642	5.40	.44
75	14.50	33.82	25.19	281.0	.2391	4.70	.68
100	12.40	33.84	25.63	239.3	.3046	3.13	1.50
150	11.60	34.28	26.13	193.5	.413	1.42	2.20
200	11.02	34.61	26.49	160.1	.502	.77	2.46
250	10.48	34.68	26.64	146.7	.580	.46	2.66
300	9.92	34.70	26.75	137.0	.651	.25	2.80
400	8.34	34.50	26.85	128.3	.785	.23	2.93
500	7.19	34.47	27.00	115.0	.908	.27	3.04
600	6.19	34.45	27.12	104.2	1.018	.26	3.12
700	5.46	34.47	27.21	95.3	1.119	.27	3.18
800	4.94	34.58	27.37	80.8	1.208	.33	3.24
1000	4.15	34.61	27.48	70.9	1.361	.52	3.17

STATION 137.60 (Interpolated Values at Standard Depths)

HORIZON: 24°21'N 114°39.5'W March 19, 1951 1410 GCT Wire angle: 5°
 Sounding: 1,900 fms. Depth of observation: 1,192 m. Weather: partly cloudy
 Sea: moderate Wind: 320°, force 1

0	18.32	34.16	24.57	337.8	.0000	5.30	.46
10	18.32	34.02	24.47	348.1	.0344	5.25	.45
20	18.32	34.16	24.57	338.5	.0689	5.27	.45
30	18.32	34.15	24.56	339.5	.1029	5.25	.44
50	18.32	34.07	24.50	345.8	.1718	5.23	.42
75	17.60	34.09	24.69	328.6	.2566	5.33	.57
100	13.23	33.75	25.40	261.4	.3308	4.40	1.00
150	11.65	34.21	26.06	199.5	.447	1.75	2.13
200	11.17	34.60	26.45	163.4	.538	.93	2.45
250	10.49	34.60	26.57	152.7	.613	.68	2.63
300	9.38	34.60	26.76	135.5	.690	.50	2.77
400	8.18	34.60	26.95	118.5	.818	.35	2.94
500	7.09	34.53	27.05	109.3	.933	.25	3.13
600	6.25	34.54	27.18	98.4	1.038	.25	3.14
700	5.59	34.51	27.24	93.0	1.135	.27	3.18
800	5.00	34.49	27.29	88.1	1.226	.34	3.24
1000	4.20	34.64	27.50	69.2	1.385	.47	3.31

STATION 140.35 (Interpolated Values at Standard Depths)

HORIZON: 24°33.5'N 112°42.5'W March 15, 1951 0055 GCT Wire angle: 2°
 Sounding: 230 fms. Depth of observation: 398 m. Weather: partly cloudy
 Sea: slight Wind: 220°, force 1

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	16.74	33.84	24.71	324.9	.0000	5.44	.57
10	15.70	33.73	24.86	310.5	.0319	5.57	.54
20	15.05	33.85	25.10	288.5	.0620	5.50	.59
30	14.51	33.86	25.22	277.1	.0904	4.55	.94
50	13.05	33.86	25.52	248.7	.1432	3.53	1.29
75	12.74	34.10	25.77	226.0	.2029	2.27	1.77
100	12.60	34.50	26.10	194.6	.2558	.85	2.31
150	11.85	34.85	26.52	155.9	.344	.46	2.54
200	11.10	34.72	26.56	153.3	.422	.31	2.65
250	10.66	34.69	26.62	148.9	.498	.27	2.72
300	9.93	34.81	26.84	128.6	.568	.27	2.79
400	(8.79)	(34.79)	(27.01)	(113.6)	(.690)	(.20)	(2.93)

STATION 140.40 (Interpolated Values at Standard Depths)

HORIZON: 24°27'N 113°08'W March 14, 1951 1805, 1945 GCT Wire
 angles: 0°, 30° Sounding: 1,750 fms. Depths of observation: 486, 2,710 m.
 Weather: cloudy Sea: slight Wind: 210°, force 1

0	18.17	(33.97)	(24.46)	(348.1)	(.0000)	3.73	.60
10	17.89	33.98	24.54	341.2	.0346	3.02	.55
20	17.84	34.06	24.61	334.7	.0685	2.74	.49
30	17.65	34.06	24.66	330.5	.1019	2.80	.46
50	17.05	33.94	24.71	326.0	.1679	3.02	.45
75	13.50	33.58	25.21	278.6	.2439	2.62	.76
100	12.13	33.82	25.67	235.7	.3086	2.08	1.49
150	11.61	34.43	26.24	182.7	.414	1.00	2.34
200	11.27	34.65	26.48	161.4	.501	.38	2.59
250	10.65	34.70	26.62	148.2	.579	.27	2.70
300	9.87	34.70	26.76	136.1	.650	.21	2.80
400	8.51	34.55	26.86	127.3	.783	.20	3.05
500	7.50	34.61	27.06	109.4	.902	.17	3.16
600	6.78	34.59	27.15	102.0	1.009	.24	3.16
700	6.01	34.54	27.21	96.5	1.109	.24	3.16
800	5.36	34.50	27.26	92.1	1.205	.25	3.16
1000	4.39	34.53	27.39	79.5	1.378	.45	3.15
1200	3.70	34.56	27.49	70.7	1.530	.63	3.10
1500	3.02	34.62	27.60	60.4	1.729	1.02	2.96
2000	2.13	34.73	27.77	43.9	1.994	1.83	2.77
2500	1.78	34.79	27.85	37.0	2.200	2.27	2.65

STATION 140.50 (Interpolated Values at Standard Depths)

HORIZON: 24°12.5'N 113°32'W March 14, 1951 1155 GCT Wire angle: 3°
 Sounding: 1,900 fms. Depth of observation: 1,169 m. Weather: partly cloudy
 Sea: moderate Wind: 220°, 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	18.30	34.09	24.52	342.4	.0000	5.12	.35
10	17.85	34.11	24.65	331.0	.0338	5.10	.34
20	17.75	34.10	24.66	329.6	.0670	5.07	.36
30	17.67	34.08	24.67	329.4	.1000	5.07	.37
50	17.23	34.05	24.75	322.2	.1655	5.12	.37
75	13.85	33.65	25.20	280.3	.2413	5.10	.54
100	12.08	33.82	25.68	234.7	.3061	3.57	1.09
150	10.82	34.31	26.29	177.7	.410	1.78	2.08
200	10.74	34.51	26.46	162.6	.496	.70	2.50
250	10.41	34.58	26.57	153.0	.575	.37	2.67
300	9.88	34.60	26.68	143.4	.650	.23	2.78
400	8.59	34.52	26.83	130.7	.788	.18	2.88
500	7.42	34.52	27.00	114.7	.912	.22	2.99
600	6.52	34.60	27.19	97.8	1.019	.23	3.10
700	5.78	34.55	27.25	92.8	1.115	.26	3.11
800	5.15	34.54	27.32	86.4	1.206	.33	3.13
1000	4.29	34.60	27.46	73.3	1.367	.42	3.13

STATION 140.60 (Interpolated Values at Standard Depths)

HORIZON: 23°49.5'N 114°13.5'W March 14, 1951 0558 GCT Wire angle: 9°
 Sounding: 1,950 fms. Depth of observation: 1,175 m. Weather: partly cloudy
 Sea: moderate Wind: 270°, force 1

0	18.60	34.11	24.57	337.8	.0000	5.03	.39
10	18.38	34.05	24.47	347.6	.0344	5.08	.40
20	18.29	34.07	24.51	344.3	.0691	5.05	.40
30	18.30	34.11	24.54	342.1	.1036	5.00	.39
50	18.27	34.17	24.59	337.6	.1719	5.02	.38
75	17.15	33.61	24.43	353.3	.2588	5.15	.44
100	12.50	33.65	25.47	255.1	.3353	4.50	.94
150	11.21	34.26	26.18	188.2	.447	2.00	2.04
200	10.74	34.55	26.49	159.7	.535	.95	2.37
250	10.19	34.55	26.59	151.4	.613	.62	2.55
300	9.36	34.51	26.70	141.6	.687	.52	2.68
400	8.07	34.47	26.87	126.5	.822	.35	2.86
500	7.02	34.43	26.99	115.7	.944	.30	2.96
600	6.32	34.52	27.15	100.9	1.053	.30	3.03
700	5.73	34.52	27.23	94.3	1.152	.30	3.09
800	5.16	34.51	27.29	88.7	1.244	.31	3.15
1000	4.35	34.53	27.40	79.1	1.414	.55	3.15

STATION 140.70 (Interpolated Values at Standard Depths)

HORIZON: 23°29'N 114°34'W March 14, 1951 0006 GCT Wire angle: 11°
 Sounding: 2,000 fms. Depth of observation: 1,158 m. Weather: overcast
 Sea: rough Wind: 290°, 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	18.31	34.04	24.48	346.2	.0000	5.18	.41
10	17.98	33.98	24.52	343.3	.0346	5.07	.37
20	17.95	34.68	25.06	291.6	.0665	5.04	.36
30	17.93	34.69	25.07	291.3	.0957	5.06	.35
50	17.87	34.07	24.61	335.5	.1587	5.22	.36
75	17.62	34.07	24.67	330.3	.2424	5.10	.38
100	12.60	33.77	25.54	248.1	.3152	3.80	1.10
150	11.02	34.25	26.21	185.5	.424	1.75	2.08
200	10.37	34.63	26.62	147.4	.508	.98	2.44
250	9.84	34.76	26.81	130.0	.578	.69	2.58
300	9.33	34.78	26.91	121.2	.641	.49	2.67
400	8.36	34.59	26.92	122.0	.764	.23	2.83
500	7.48	34.73	27.16	100.1	.876	.19	3.01
600	6.34	34.51	27.14	101.9	.978	.20	3.14
700	5.71	34.51	27.22	94.8	1.077	.24	3.10
800	5.21	34.53	27.30	88.0	1.169	.31	3.09
1000	4.33	34.70	27.54	66.4	1.325	.49	3.16

STATION 140.80 (Interpolated Values at Standard Depths)

HORIZON: 23°10'N 115°30.5'W March 13, 1951 1545, 1724 GCT Wire
 angles: 11°, 20° Sounding: 2,050 fms. Depths of observation: 1,174, 2,925 m.
 Weather: partly cloudy Sea: rough Wind: 340°, force 3

0	18.01	33.96	24.49	345.2	.0000	5.04	.35
10	18.03	33.95	24.48	346.5	.0347	5.05	.35
20	18.15	34.05	24.53	342.6	.0693	4.99	.34
30	18.49	34.12	24.50	345.9	.1039	4.93	.33
50	18.66	34.20	24.52	344.6	.1733	5.07	.34
75	18.80	34.25	24.52	345.2	.2600	5.03	.27
100	14.60	33.60	25.00	299.8	.3411	5.17	.52
150	12.61	33.80	25.56	247.2	.479	4.49	1.12
200	11.42	34.02	25.96	210.4	.594	3.37	1.50
250	10.35	34.16	26.26	182.7	.693	2.30	1.85
300	9.43	34.32	26.54	156.9	.779	1.50	2.16
400	8.38	34.48	26.83	130.3	.923	.60	2.69
500	7.42	34.52	27.00	114.7	1.047	.25	2.91
600	6.48	34.52	27.13	103.0	1.157	.27	2.95
700	5.77	34.52	27.22	94.7	1.256	.27	3.11
800	5.15	34.53	27.31	87.1	1.348	.29	3.16
1000	4.28	34.61	27.47	72.4	1.510	.48	3.08
1200	3.73	34.68	27.58	62.2	1.646	.63	3.09
1500	3.02	34.78	27.73	48.6	1.814	1.00	2.97
2000	2.18	34.67	27.72	49.2	2.062	1.89	2.74
2500	1.83	34.71	27.77	44.1	2.300	2.25	2.59

STATION 143.35 (Interpolated Values at Standard Depths)

HORIZON: 23°56.5'N 112°14.5'W March 16, 1951 1818 GGT Wire angle: 10°
 Sounding: 450 fms. Depth of observation: 687 m. Weather: partly cloudy
 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 ($\mu\text{g at/L}$)
0	18.69	34.18	24.49	345.2	.0000	4.95	.42
10	18.45	34.11	24.50	345.0	.0347	5.13	.42
20	18.00	33.98	24.51	344.2	.0693	5.10	.43
30	17.30	33.99	24.69	327.4	.1030	5.11	.45
50	16.25	34.00	24.94	304.0	.1664	5.19	.51
75	13.26	33.80	25.43	257.6	.2370	3.65	1.26
100	12.25	34.26	25.99	205.6	.2953	1.90	1.97
150	11.19	34.47	26.35	172.2	.390	1.03	2.39
200	10.40	34.53	26.54	155.4	.473	.65	2.50
250	10.37	34.74	26.71	140.3	.547	.29	2.73
300	10.07	34.69	26.72	140.1	.618	.22	2.77
400	8.80	34.70	26.94	120.7	.749	.20	2.78
500	7.57	34.50	26.97	118.5	.870	.23	3.02
600	6.73	34.45	27.04	111.7	.986	.21	3.17

STATION 143.40 (Interpolated Values at Standard Depths)

HORIZON: 23°47.5'N 112°38'W March 16, 1951 1424 GGT Wire angle: 0°
 Sounding: 1,650 Depth of observation: 1,197 m. Weather: cloudy
 Sea: moderate Wind: 360°, force 1.

0	18.59	34.18	24.51	342.8	.0000	5.22	.41
10	18.34	33.75	24.25	368.3	.0357	5.15	.38
20	18.04	34.10	24.59	336.5	.0711	5.15	.55
30	17.90	34.11	24.63	332.7	.1047	5.20	.57
50	16.40	33.99	24.90	307.9	.1691	5.30	.54
75	13.04	33.77	25.45	255.9	.2399	4.00	1.04
100	12.58	34.25	25.91	212.8	.2989	2.17	1.85
150	12.03	34.57	26.27	179.9	.398	.98	2.36
200	11.28	34.63	26.46	163.0	.484	.47	2.58
250	10.59	34.72	26.65	145.5	.562	.30	2.69
300	10.00	34.79	26.81	131.4	.631	.25	2.77
400	8.63	34.58	26.87	126.9	.762	.25	2.90
500	7.33	34.67	27.13	102.5	.877	.24	3.09
600	6.50	34.54	27.15	101.9	.980	.22	3.13
700	5.83	34.54	27.23	94.1	1.079	.27	3.17
800	5.25	34.54	27.30	87.7	1.171	.32	3.18
1000	4.32	34.70	27.53	66.3	1.327	.39	3.16

STATION 143.50 (Interpolated Values at Standard Depths)

HORIZON: 23°31'N 113°18'W March 16, 1951 0817 GCT Wire angle: 15°
 Sounding: 1,120 fms. Depth of observation: 1.153 m. Weather: partly cloudy
 Sea: slight Wind: 290°, 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	19.20	34.24	24.41	353.2	.0000	5.22	.42
10	18.68	34.05	24.40	354.7	.0355	5.24	.35
20	18.57	34.16	24.51	344.0	.0706	5.23	.37
30	18.47	34.16	24.53	342.4	.1051	5.25	.41
50	18.10	34.08	24.56	340.2	.1737	5.27	.50
75	14.30	33.89	25.29	271.8	.2506	4.00	.87
100	12.17	33.81	25.65	237.0	.3146	2.74	1.16
150	12.27	34.56	26.22	185.1	.421	1.14	2.29
200	11.65	34.64	26.40	169.0	.510	.56	2.46
250	10.97	34.66	26.54	156.5	.592	.36	2.59
300	10.25	34.67	26.67	144.6	.668	.28	2.70
400	8.50	34.57	26.88	125.6	.804	.16	2.82
500	7.40	34.54	27.02	113.0	.924	.25	2.94
600	6.32	34.51	27.15	101.6	1.033	.29	3.05
700	5.69	34.51	27.23	94.4	1.132	.31	3.11
800	5.18	34.52	27.30	88.2	1.224	.36	3.13
1000	4.37	34.57	27.43	76.5	1.390	.58	3.10

STATION 147.25 (Interpolated Values at Standard Depths)

HORIZON: 23°46.5'N 111°22'W March 15, 1951 1631 GCT Wire angle: 2°
 Sounding: 215 fms. Depth of observation: 224 m. Weather: partly cloudy
 Sea: slight Wind: 360°, force 1

0	17.27	34.11	24.79	317.2	.0000	5.03	.58
10	16.20	33.95	24.92	305.3	.0313	5.30	.63
20	13.70	33.80	25.34	264.8	.0599	5.25	.70
30	13.65	33.80	25.35	264.1	.0864	5.05	.80
50	12.88	33.97	25.64	237.3	.1368	3.10	1.24
75	12.92	34.42	25.98	205.7	.1925	1.07	2.22
100	12.44	34.61	26.22	183.7	.2415	.70	2.41
150	11.75	34.87	26.56	152.8	.326	.29	2.57
200	10.95	34.73	26.60	149.8	.402	.22	2.65

STATION 147.40 (Interpolated Values at Standard Depths)

HORIZON: 23°19'N 112°23'W March 16, 1951 0200 GCT Wire angle: 17°
 Sounding: 1,700 fms. Depth of observation: 1,159 m. Weather: partly cloudy
 Sea: slight Wind: 340°, 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	19.23	34.11	24.30	363.5	.0000	5.17	.42
10	18.97	34.07	24.34	360.2	.0363	5.17	.43
20	18.15	34.15	24.60	335.6	.0713	5.25	.49
30	17.76	34.16	24.71	325.6	.1045	5.29	.49
50	17.15	34.14	24.84	313.8	.1687	5.31	.46
75	14.61	33.96	25.27	273.0	.2425	3.35	1.05
100	13.64	34.42	25.83	220.6	.3046	1.41	2.16
150	12.35	34.73	26.33	173.9	.404	.51	2.52
200	11.58	34.88	26.59	150.2	.485	.25	2.61
250	10.92	34.74	26.61	149.7	.561	.21	2.69
300	10.25	34.70	26.69	142.4	.609	.20	2.76
400	8.87	34.65	26.88	125.5	.744	.19	2.88
500	7.56	34.60	27.05	110.9	.864	.17	3.03
600	6.36	34.53	27.16	100.6	.970	.23	3.11
700	5.68	34.58	27.28	89.2	1.066	.27	3.13
800	5.14	34.60	27.36	81.9	1.152	.32	3.13
1000	4.32	34.56	27.43	76.5	1.313	.50	3.08

STATION 150.25 (Interpolated Values at Standard Depths)

HORIZON: 23°13.5'N 110°59'W March 11, 1951 0906 Wire angle: 25°
 Sounding: 610 fms. Depth of observation: 652 m. Weather: thunderstorm
 with dust Sea: rough Wind: 340°, force 3

0	19.45	34.72	24.72	324.0	.0000	3.72	.64
10	19.43	34.72	24.73	324.1	.0325	3.13	.67
20	19.34	34.72	24.73	322.4	.0650	3.05	.67
30	18.65	34.71	24.91	306.6	.0966	2.95	.69
50	15.50	34.68	25.63	238.2	.1513	1.70	1.67
75	14.43	34.68	25.87	216.5	.2085	.49	2.42
100	14.14	34.74	25.98	206.8	.2617	.24	2.57
150	12.33	34.92	26.48	159.8	.354	.16	2.63
200	11.45	34.76	26.53	156.5	.434	.18	2.72
250	10.77	34.75	26.64	146.3	.510	.15	2.84
300	10.09	34.67	26.70	142.0	.582	.14	2.88
400	8.77	34.77	27.00	114.8	.712	.15	2.83
500	7.70	34.63	27.05	110.8	.826	.18	2.89
600	6.80	34.58	27.14	103.0	.934	.15	2.99

STATION 150.30 (Interpolated Values at Standard Depths)

HORIZON: 23°03.5'N 111°15.5'W March 11, 1951 1307, 1329 GCT Wire angle: 42°, 45° Sounding: 1,240 fms. Depth of observation: 8m., 811 m. Weather: partly cloudy Sea: rough 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 (µg at/L)
0	18.89	34.49	24.68	327.6	.0000	4.95	.48
10	18.88	34.43	24.63	332.1	.0331	5.02	.49
20	18.40	34.30	24.66	330.2	.0664	5.12	.47
30	17.70	34.24	24.78	318.6	.0989	5.00	.49
50	16.39	34.24	25.09	289.5	.1601	4.13	.95
75	15.25	34.48	25.54	248.1	.2276	2.50	1.73
100	13.70	34.61	25.97	207.8	.2850	.99	2.24
150	12.45	34.75	26.33	174.5	.381	.31	2.44
200	11.67	34.74	26.47	162.1	.466	.22	2.58
250	11.08	34.73	26.57	153.4	.545	.18	2.62
300	10.41	34.77	26.72	139.8	.619	.15	2.67
400	8.87	34.75	26.97	117.8	.749	.17	2.87
500	7.67	34.72	27.13	103.5	.861	.16	3.00
600	6.45	34.69	27.27	90.0	.958	.17	3.06
700	5.68	34.67	27.35	82.5	1.045	.19	3.08
800	5.10	34.69	27.44	74.6	1.125	.26	3.08

STATION 150.40 (Interpolated Values at Standard Depths)

HORIZON: 22°39'N 112°02'W March 11, 1951 2015, 2207 GCT Wire angle: 15°, 2° Sounding: 1,650 fms. Depth of observation: 1,058 m., 2,399 m. Weather: clear Sea: very rough Wind: 320°, force 5

0	19.70	34.56	24.52	342.4	.0000	5.05	.48
10	19.68	34.54	24.51	343.7	.0344	4.90	.49
20	19.57	34.55	24.55	340.4	.0688	5.07	.50
30	19.30	34.56	24.63	333.4	.1026	5.20	.51
50	16.25	34.14	25.05	293.7	.1656	3.80	1.11
75	13.76	34.28	25.70	232.5	.2318	1.82	1.87
100	12.87	34.71	26.21	184.2	.2842	.90	2.28
150	12.05	34.81	26.45	162.7	.371	.23	2.61
200	11.35	34.72	26.51	157.8	.452	.17	2.62
250	10.72	34.69	26.61	149.9	.530	.15	2.64
300	9.95	34.69	26.74	138.1	.602	.16	2.74
400	8.88	34.58	26.83	130.8	.738	.12	2.84
500	7.52	34.77	27.19	97.6	.853	.13	2.96
600	6.78	34.56	27.12	104.3	.955	.14	3.00
700	6.24	34.54	27.18	99.6	1.058	.16	3.01
800	5.39	34.58	27.32	86.6	1.152	.19	3.09
1000	4.40	34.65	27.49	71.0	1.311	.35	3.14
1200	3.78	34.64	27.54	65.8	1.449	.63	3.08
1500	3.00	34.61	27.60	60.9	1.642	1.14	2.99
2000	2.18	34.69	27.73	47.7	1.918	1.85	2.84

STATION 150.50 (Interpolated Values at Standard Depths)

HORIZON: 22°21'N 112°35'W March 12, 1951 0426 GCT Wire angle: 35°
 Sounding: 1,800 fms. Depth of observation: 967 m. Weather: clear
 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 ($\mu\text{g at/L}$)
0	18.67	34.14	24.47	347.5	.0000	5.02	.44
10	18.65	34.06	24.41	353.4	.0352	5.08	.38
20	18.61	34.29	24.60	336.1	.0698	5.15	.38
30	18.57	34.25	24.58	338.2	.1037	5.13	.36
50	18.34	34.20	24.60	337.1	.1715	5.12	.38
75	15.30	33.66	24.89	309.2	.2528	5.00	.56
100	12.40	33.79	25.59	243.1	.3222	4.00	1.44
150	12.81	34.68	26.20	186.5	.430	.34	2.45
200	12.00	34.80	26.46	163.3	.518	.25	2.55
250	11.03	34.82	26.65	145.7	.596	.21	2.63
300	10.18	34.76	26.76	136.5	.667	.17	2.77
400	8.76	34.73	26.97	117.6	.795	.15	2.93
500	7.44	34.66	27.11	104.8	.908	.21	2.98
600	6.86	34.69	27.21	95.9	1.009	.19	3.03
700	5.99	34.66	27.31	87.3	1.101	.20	3.08
800	5.20	34.63	27.38	80.5	1.186	.22	-
1000	(4.40)	(34.60)	(27.45)	(74.6)	(1.343)	(.40)	-

STATION 150.60 (Interpolated Values at Standard Depths)

HORIZON: 22°04'N 113°18'W March 12, 1951 1030 GCT Wire angle: 15°
 Sounding: 2,000 fms. Depth of observation: 1,239 m. Weather: clear
 Sea: very rough Wind: 270°, force 4

0	18.95	34.13	24.39	355.2	.0000	4.70	.41
10	18.95	34.05	24.33	361.3	.0360	5.15	.37
20	18.95	34.15	24.40	354.5	.0719	4.97	.36
30	18.93	34.16	24.42	353.4	.1074	4.61	.35
50	18.67	34.12	24.45	350.6	.1782	4.10	.34
75	14.75	33.62	24.98	300.6	.2601	3.35	.46
100	13.55	34.23	25.70	232.6	.3271	1.95	1.60
150	11.80	34.43	26.20	186.1	.433	1.02	2.33
200	11.00	34.75	26.60	149.2	.517	.65	2.63
250	10.48	34.73	26.68	143.0	.591	.39	2.71
300	9.96	34.68	26.73	138.8	.662	.20	2.75
400	8.60	34.57	26.86	127.2	.796	.23	2.80
500	7.42	34.56	27.04	111.7	.916	.20	2.94
600	6.53	34.52	27.13	103.0	1.024	.18	3.15
700	5.81	34.51	27.21	96.1	1.125	.27	3.16
800	5.23	34.51	27.28	89.6	1.219	.38	3.13
1000	4.33	34.62	27.47	72.3	1.382	.40	3.14

STATION 150.70 (Interpolated Values at Standard Depths)

HORIZON: 21°37'N 113°50.5'W March 12, 1951 1632 GCT Wire angle: 22°
 Sounding: 1,960 fms. Depth of observation: 1,092 m. Weather: partly cloudy
 Sea: moderate Wind: 340°, 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	19.00	34.11	24.36	357.8	.0000	5.05	.34
10	18.96	34.12	24.38	356.4	.0359	5.03	.34
20	18.98	34.22	24.45	350.2	.0713	5.05	.35
30	18.98	34.21	24.44	351.3	.1065	5.00	.35
50	18.88	34.08	24.37	358.8	.1779	4.96	.35
75	15.45	33.92	25.06	293.2	.2599	5.05	.62
100	13.16	33.72	25.39	262.3	.3298	3.63	1.03
150	12.28	34.52	26.18	188.4	.443	.84	2.28
200	11.49	34.71	26.48	160.7	.531	.34	2.64
250	10.75	34.65	26.57	153.5	.610	.28	2.69
300	9.93	34.60	26.67	144.3	.685	.32	2.77
400	8.12	34.53	26.91	122.8	.820	.38	2.97
500	7.12	34.51	27.04	111.1	.938	.24	3.07
600	6.43	34.50	27.12	103.8	1.046	.26	3.09
700	5.61	34.47	27.20	96.3	1.147	.31	3.10
800	5.03	34.49	27.29	88.5	1.240	.36	3.12
1000	4.29	34.52	27.40	79.1	1.410	.55	3.16

STATION 150.80 (Interpolated Values at Standard Depths)

HORIZON: 21°21'N 114°26'W March 13, 1951 0007, 0148 GCT Wire angle:
 12°, 15° Sounding: 1,950 fms. Depth of observation: 1,127 m., 2,977 m.
 Weather: partly cloudy Sea: rough Wind: 320°, force 2

0	20.23	34.29	24.18	375.1	.0000	5.35	.36
10	19.89	34.27	24.25	368.3	.0373	5.10	.37
20	19.86	34.25	24.25	369.5	.0744	5.07	.36
30	19.86	34.25	24.25	370.5	.1115	5.05	.38
50	19.83	34.27	24.27	368.4	.1858	4.90	.39
75	17.10	33.96	24.71	326.5	.2731	5.29	.38
100	14.25	33.77	25.20	280.1	.3494	4.07	1.12
150	11.78	34.07	25.93	212.1	.473	2.80	1.98
200	10.25	34.26	26.35	172.6	.570	1.88	2.33
250	9.48	34.35	26.55	154.3	.653	1.10	2.49
300	8.91	34.42	26.70	141.1	.727	.57	2.63
400	7.98	34.47	26.88	125.0	.861	.29	2.88
500	7.00	34.45	27.01	113.9	.982	.38	2.95
600	6.31	34.43	27.08	107.4	1.093	.15	3.10
700	5.70	34.46	27.18	98.3	1.197	.29	3.15
800	5.21	34.50	27.28	90.2	1.292	.35	3.16
1000	4.44	34.52	27.38	80.9	1.465	.48	3.20
1200	3.65	34.54	27.48	71.6	1.619	.74	3.16
1500	2.97	34.56	27.56	64.2	1.826	1.11	3.02
2000	2.17	34.67	27.72	49.2	2.114	1.86	2.78
2500	1.80	34.70	27.77	44.1	2.351	2.32	2.56

STATION 153.20 (Interpolated Values at Standard Depths)

HORIZON 22°47.5'N 110°22'W March 11, 1951 0145, 0205 GCT Wire angle: 20°, 19° Sounding: 325 fms. Depth of observation: 0, 425 m. Weather: overcast Sea: rough Wind: 290°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10^8	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μ g at/L)
0	21.62	34.90	24.27	366.3	.0000	5.02	.57
10	21.62	34.88	24.26	368.2	.0369	4.90	.60
20	21.55	34.95	24.33	361.8	.0735	4.92	.62
30	21.50	34.98	24.36	358.6	.1097	4.90	.66
50	20.69	34.99	24.59	337.6	.1797	4.06	1.40
75	13.75	34.52	25.89	214.7	.2491	2.30	2.34
100	12.87	34.45	26.01	203.2	.3016	.80	2.39
150	12.35	34.87	26.44	163.8	.394	.27	2.52
200	11.68	34.79	26.51	158.6	.475	.16	2.68
250	11.06	34.79	26.62	148.5	.553	.18	2.76
300	10.48	34.80	26.73	148.9	.627	.17	2.88
400	8.90	34.66	26.89	125.1	.766	.19	2.97

STATION 153.30 (Interpolated Values at Standard Depths)

HORIZON: 22°33.5'N 110°59.5'W March 10, 1951 1948 GCT Wire angle: 20° Sounding: 1,600 fms. Depth of observation: 1,071 m. Weather: overcast Sea: rough Wind: 330°, force 4

0	20.00	34.52	24.42	352.2	.0000	5.06	.53
10	19.94	34.51	24.42	352.2	.0354	5.05	.51
20	19.92	34.51	24.43	351.9	.0707	5.07	.51
30	19.86	34.52	24.45	250.0	.1060	5.08	.52
50	19.05	34.38	24.56	340.9	.1754	5.07	.55
75	14.40	34.19	25.50	251.8	.2499	2.65	2.47
100	13.40	34.50	25.94	210.0	.3080	1.05	2.61
150	12.33	34.75	26.35	172.3	.404	.34	2.66
200	11.45	34.77	26.54	155.8	.487	.19	2.74
250	10.73	34.70	26.61	149.3	.564	.18	2.78
300	9.99	34.69	26.73	138.7	.636	.16	2.86
400	8.71	34.62	26.89	125.2	.769	.16	3.00
500	7.60	34.53	26.98	116.6	.891	.17	3.10
600	6.65	34.49	27.09	107.6	1.004	.18	3.18
700	5.83	34.49	27.19	97.8	1.108	.23	3.22
800	5.27	34.51	27.28	90.2	1.203	.23	3.27
1000	4.41	34.62	27.46	73.3	1.368	.36	3.30

STATION 153.40 (Interpolated Values at Standard Depths)

HORIZON: 22°10.5'N 111°36'W March 10, 1951 1339 GCT Wire angle: 22°
 Sounding: 1,640 m. Depth of observation: 951 m. Weather: heavy thunder-
 storm Sea: rough Wind: 290°, 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	19.35	34.45	24.53	341.5	.0000	4.02	.44
10	19.35	34.29	24.41	353.7	.0349	4.10	.43
20	19.34	34.34	24.45	350.2	.0702	3.75	.42
30	19.17	34.33	24.49	347.0	.1052	3.20	.41
50	18.87	34.24	24.49	346.9	.1750	2.97	.42
75	14.95	34.03	25.26	274.8	.2531	2.70	1.44
100	13.52	34.45	25.88	215.9	.3149	.70	2.12
150	12.43	34.77	26.35	172.7	.413	.32	2.63
200	11.42	34.80	26.56	153.1	.495	.31	2.81
250	10.67	34.71	26.63	147.6	.570	.30	2.80
300	10.01	34.70	26.74	138.2	.642	.25	2.80
400	8.83	34.64	26.88	125.6	.775	.15	2.87
500	7.44	34.55	27.02	112.9	.896	.15	3.01
600	-	34.52	-	-	-	-	-
700	-	34.53	-	-	-	-	-
800	-	34.53	-	-	-	-	-
1000	-	(34.54)	-	-	-	-	-

STATION 153.50 (Interpolated Values at Standard Depths)

HORIZON: 21°49'N 112°13'W March 10, 1951 0700 GCT Wire angle: 10°
 Sounding: 1,640 fms. Depth of observation: 1,174 m. Weather: cloudy
 Sea: rough Wind: 340°, force 1

0	19.70	34.43	24.43	351.7	.0000	1.45	.43
10	19.70	34.33	24.35	359.3	.0356	1.45	.43
20	19.67	34.43	24.43	350.5	.0713	1.43	.42
30	19.62	34.43	24.45	350.4	.1065	1.42	.41
50	19.47	34.41	24.47	348.9	.1768	1.28	.40
75	14.95	34.17	25.36	264.5	.2539	1.05	1.42
100	13.55	34.41	25.84	219.4	.3148	.50	2.06
150	11.53	34.56	26.36	171.7	.413	.31	2.31
200	11.05	34.66	26.52	156.9	.496	.15	2.52
250	10.43	34.66	26.63	147.2	.572	.09	2.64
300	9.82	34.65	26.73	138.9	.645	.08	2.74
400	8.65	34.60	26.88	125.7	.778	.15	2.88
500	7.39	34.53	27.02	113.4	.899	.10	3.02
600	6.43	34.53	27.15	101.6	1.007	.19	3.05
700	5.75	34.67	27.35	83.3	1.100	.25	3.03
800	5.21	34.69	27.43	76.1	1.181	.24	3.02
1000	4.20	34.70	27.55	64.7	1.323	.24	3.10

STATION 157.10 (Interpolated Values at Standard Depths)

HORIZON: 22°33'N 109°23'W March 8, 1951 1940 GCT Wire angle: 5°
 Sounding: 1,380 fms. Depth of observation: 1,188 m. Weather: cloudy
 Sea: moderate 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 (µg at/L)
0	21.81	35.08	24.36	358.2	.0000	4.90	.65
10	21.08	35.07	24.55	340.5	.0351	4.95	.73
20	20.36	35.25	24.88	309.1	.0677	5.10	.90
30	19.75	35.25	25.04	294.1	.0980	5.12	1.12
50	17.65	35.14	25.49	252.1	.1529	3.60	1.78
75	14.90	34.83	25.88	215.2	.2116	2.54	2.38
100	14.01	34.81	26.06	209.3	.2650	.55	2.47
150	12.55	34.85	26.39	169.0	.360	.38	2.54
200	11.57	34.78	26.52	157.1	.442	.22	2.63
250	10.91	34.73	26.60	150.4	.520	.15	2.72
300	10.39	34.71	26.68	143.8	.594	.13	2.83
400	8.83	34.60	26.85	128.5	.731	.15	3.00
500	7.76	34.55	26.98	117.4	.855	.15	3.11
600	6.78	34.52	27.09	107.2	.968	.18	3.23
700	5.94	34.52	27.20	97.1	1.071	.19	3.26
800	5.25	34.54	27.30	87.7	1.165	.20	3.27
1000	4.51	34.54	27.39	80.2	1.334	.34	(3.38)

STATION 157.20 (Interpolated Values at Standard Depths)

HORIZON: 22°13'N 110°00'W March 9, 1951 0210 GCT Wire angle: 35°
 Sounding: 1,570 fms. Depth of observation: 1,000 m. Weather: partly cloudy
 Sea: moderate Wind: 250°, force 3

0	21.40	34.79	24.25	368.8	.0000	2.85	.56
10	21.24	34.79	24.29	364.9	.0368	3.07	.59
20	21.20	34.92	24.40	354.7	.0730	3.10	.61
30	21.08	34.89	24.41	354.3	.1085	3.12	.60
50	20.32	34.60	24.39	356.4	.1800	3.25	.57
75	16.40	34.43	25.24	276.7	.2596	3.32	1.68
100	13.86	34.59	25.92	212.3	.3211	.59	2.40
150	12.70	34.76	26.29	178.5	.419	.39	2.63
200	12.25	34.81	26.41	167.6	.507	.25	2.76
250	11.25	34.78	26.58	152.7	.587	.21	2.81
300	10.39	34.72	26.69	143.1	.662	.18	2.83
400	9.10	34.67	26.87	127.6	.798	.18	2.91
500	7.65	34.54	26.99	116.7	.921	.15	3.03
600	6.73	34.55	27.12	104.2	1.033	.14	3.10
700	6.01	34.55	27.22	95.8	1.134	.13	3.16
800	5.52	34.53	27.26	92.0	1.229	.12	3.18
1000	4.63	34.56	27.39	80.4	1.403	.14	3.25

STATION 157.30 (Interpolated Values at Standard Depths)

HORIZON: 21°53'N 110°35'W March 9, 1951 0920 GCT Wire angle: 3°
 Sounding: 1,550 fms. Depth of observation: 920 m. Weather: clear
 Sea: rough Wind: 270°, 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	22.38	34.81	23.98	393.8	.0000	1.82	.47
10	22.36	34.81	23.99	393.2	.0395	1.82	.46
20	22.20	34.80	24.03	389.7	.0728	2.08	.53
30	20.55	34.80	24.49	347.1	.1158	2.10	.69
50	19.98	35.09	24.86	312.5	.1821	1.70	1.07
75	18.76	35.11	25.19	281.3	.2567	1.55	1.84
100	15.85	34.53	25.44	258.1	.3246	.80	2.32
150	12.32	34.57	26.21	185.4	.436	.29	2.45
200	11.09	34.68	26.53	156.0	.522	.12	2.59
250	10.63	34.69	26.62	148.4	.599	.10	2.71
300	10.34	34.69	26.67	144.7	.673	.10	2.77
400	9.03	34.62	26.84	130.3	.811	.13	2.91
500	7.63	34.58	27.02	113.5	.934	.14	3.04
600	6.67	34.54	27.12	104.1	1.044	.15	3.17
700	5.94	34.53	27.21	96.3	1.145	.16	3.21
800	5.41	34.61	27.34	84.7	1.236	.16	3.20
1000	4.57	34.62	27.45	75.2	1.398	.21	3.20

STATION 157.40 (Interpolated Values at Standard Depths)

HORIZON: 21°31.5'N 111°11'W March 9, 1951 1508 GCT Wire angle: 22°
 Sounding: 1,650 fms. Depth of observation: 920 m. Weather: cloudy
 Sea: moderate Wind: 270°, force 2

0	22.16	34.70	23.97	395.6	.0000	4.82	.50
10	22.15	34.69	23.96	396.3	.0398	4.85	.48
20	21.85	34.83	24.15	378.5	.0786	4.85	.42
30	21.65	34.91	24.27	367.6	.1161	4.83	.43
50	21.48	34.94	24.34	361.8	.1894	4.68	.59
75	15.90	34.27	25.23	277.5	.2698	3.10	1.32
100	13.19	34.23	25.78	225.6	.3330	1.80	1.90
150	12.00	34.61	26.31	176.5	.434	.62	2.43
200	10.83	34.63	26.54	155.2	.518	.34	2.60
250	10.27	34.62	26.63	147.4	.594	.25	2.65
300	9.78	34.62	26.71	140.6	.666	.17	2.71
400	8.78	34.62	26.88	126.3	.801	.13	2.86
500	7.40	34.61	27.08	107.8	.919	.13	3.02
600	6.51	34.63	27.21	95.4	1.022	.14	3.04
700	5.83	34.60	27.28	89.7	1.115	.20	3.01
800	5.25	34.56	27.32	86.3	1.204	.23	3.03
1000	(4.38)	(34.53)	(27.40)	(79.4)	(1.371)	-	-

STATION 157.50 (Interpolated Values at Standard Depths)

HORIZON: 21°14'N 111°50'W March 9, 1951 2143, 2302 GCT Wire angle: 25°,
 13° Sounding: 1,600 fms. Depth of observation: 89 m., 1,169 m. Weather:
 cloudy Sea: rough Wind: 290°, 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	20.99	34.56	24.18	374.9	.0000	5.10	.40
10	20.66	34.59	24.29	364.6	.0371	5.08	.42
20	20.61	34.61	24.32	362.3	.0736	5.03	.43
30	20.54	34.61	24.34	360.8	.1099	5.01	.43
50	20.40	34.59	24.36	358.7	.1822	4.95	.40
75	15.95	34.16	25.13	286.6	.2633	4.74	1.06
100	13.58	34.48	25.89	214.8	.3264	.96	2.19
150	12.40	34.62	26.23	183.5	.427	.48	2.50
200	11.72	34.70	26.43	165.7	.515	.27	2.67
250	11.03	34.65	26.52	158.5	.596	.21	2.76
300	10.27	34.62	26.63	148.5	.674	.20	2.82
400	8.79	34.60	26.86	127.9	.813	.18	2.87
500	7.53	34.51	26.98	117.1	.936	.15	3.01
600	6.43	34.49	27.12	104.6	1.048	.20	3.08
700	5.69	34.50	27.22	95.2	1.149	.20	3.13
800	5.17	34.57	27.29	88.9	1.242	.22	3.15
1000	4.36	34.52	27.39	80.0	1.413	.40	3.15

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