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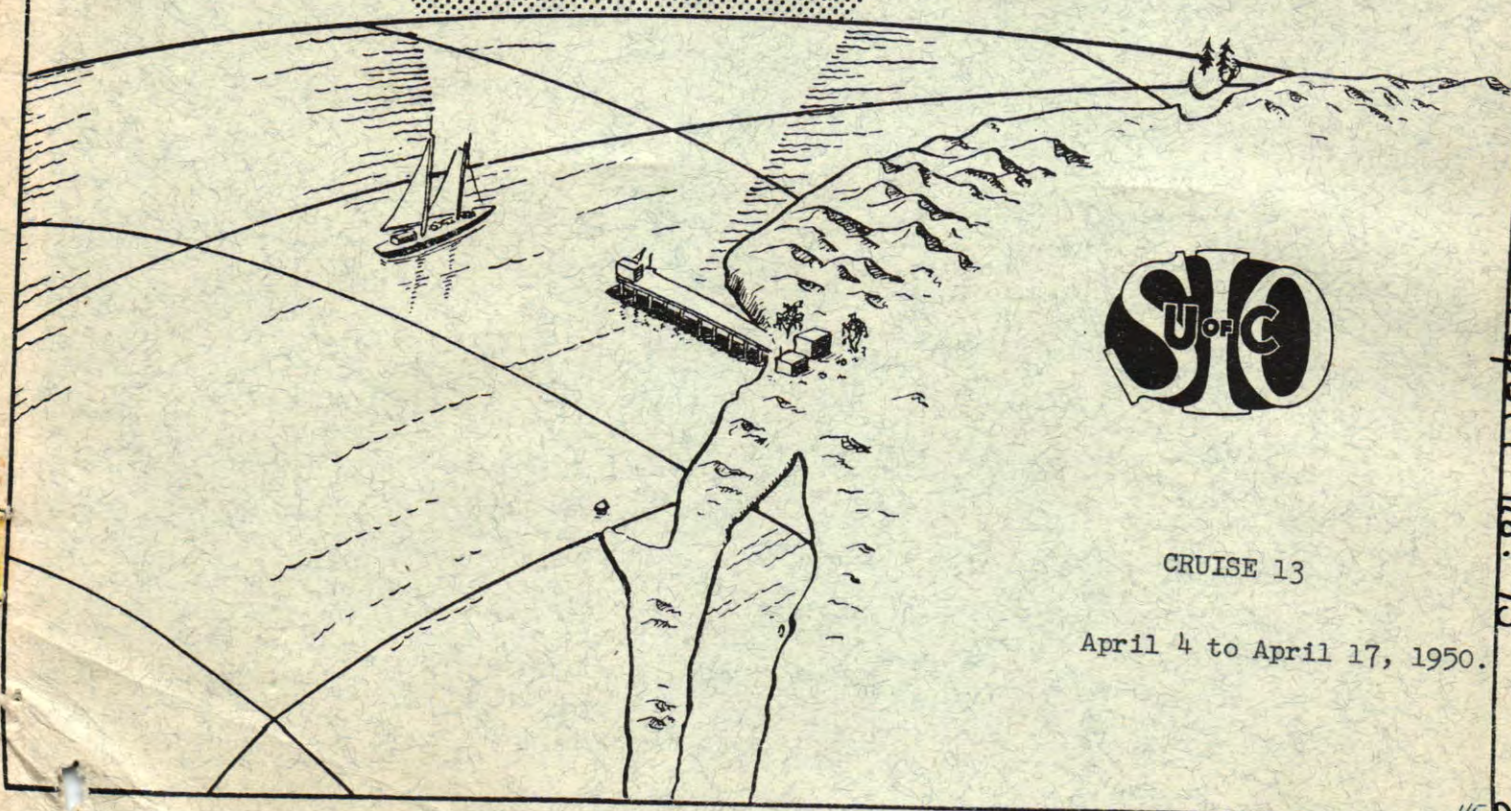

CRUISE 13

April 4 to April 17, 1950.

Scripps institution of oceanography / Physical and chemical data report no. 13
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PHYSICAL AND CHEMICAL DATA

CRUISE 13 - April 3 to April 17, 1950

MARINE LIFE RESEARCH PROGRAM

Report prepared May 21, 1951

Physical and Chemical Data Report No. 13

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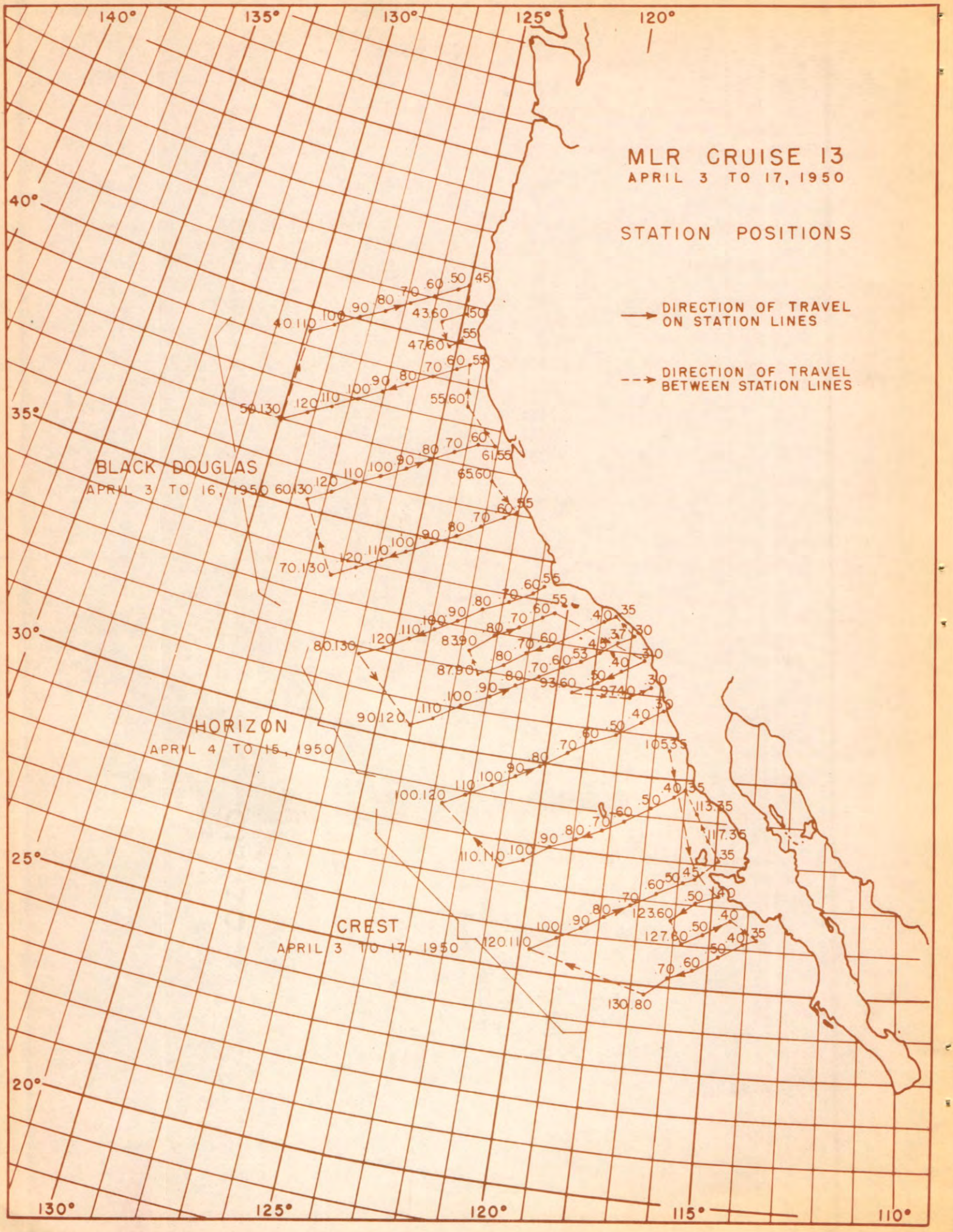

MLR CRUISE 13
APRIL 3 TO 17, 1950
STATION POSITIONS
DIRECTION OF TRAVEL ON STATION LINES
DIRECTION OF TRAVEL BETWEEN STATION LINES
BLACK DOUGLAS
APRIL 3 TO 16, 1950
HORIZON
APRIL 4 TO 15, 1950
CREST
APRIL 3 TO 17, 1950
140°
135°
130°
125°
120°
115°
110°
40°
35°
30°
25°
20°

INTRODUCTION

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

Data are presented in the form of tabulated values at standard depths and of charts of horizontal distributions at the surface. In accordance with the procedure followed in Physical and Chemical Data Reports 7,8,9,11, and 12, only the corrected horizontal distribution of dynamic height anomaly and the uncorrected charts of temperature and salinity at the surface are presented in this report.

On the charts of horizontal distribution a circle is drawn around the station dot if the quantity represented is missing for that station; an 'X' is drawn through the station dot if the value observed does not conform to the field and was not used in drawing the contours.

In the tabulated data extrapolated values are indicated by parentheses. The time given is the time when the messenger was released. When more than one cast was made on a station, both messenger time and both wire angles are given, and 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 93.40, 97.32, 100.40, 110.60, 110.110, and 120.70, it was difficult to ascertain depths of observations taken. In processing such stations an effort is made to correct for the pretripping.

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

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, Acting Director of the Scripps Institution of Oceanography

Oceanographers

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

Marine Superintendent

Stose, Clemens W.

Ships' Captains

Brandal, G., MV CREST
Joelson, S. M., MV BLACK DOUGLAS
Ekberg, P. R., MV HORIZON

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Eckles, Howard H., Marine Biologist in Charge
Bergin, William, Student, San Francisco State College
Cirby, Ray, Student, San Francisco State College
Graf, Otto, Jr., Student, San Francisco State College
Lord, William, Student, San Francisco State College
Worrall, Charles G., Marine Technician, Scripps Institution

MV CREST

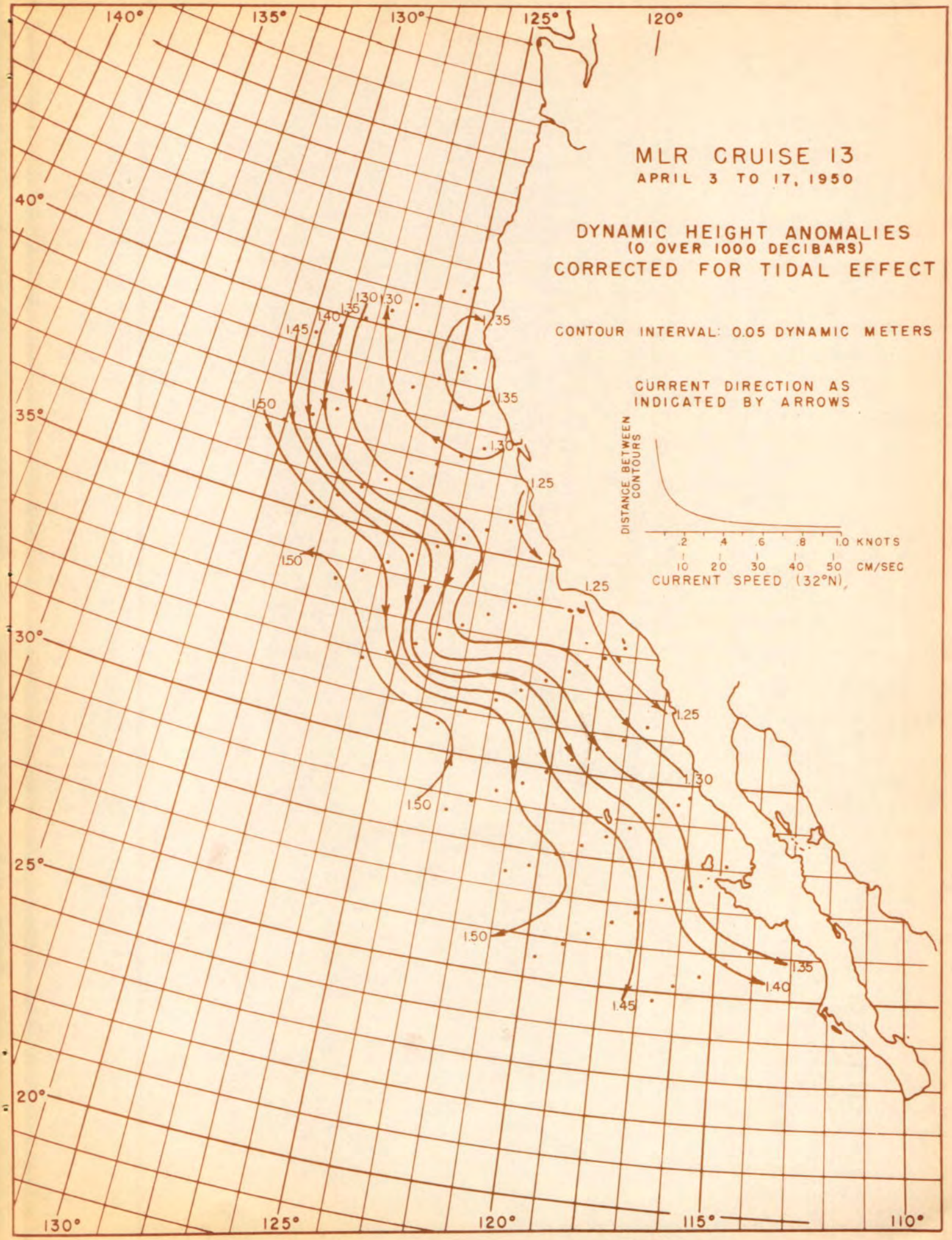
Marquardt, Robert L., Senior Marine Technician
Barber, G. D., Research Assistant
Clark, Peter S., Marine Technician
Counts, Robert C., Marine Biologist, Fish and Wildlife Service
Johnson, Norman W., Marine Technician
Koide, Minoru, Marine Technician, Chemical
Wiborg, Kristian F., Scientific Advisor, Directorate of Fisheries, Institute of Marine Research, Bergen, Norway

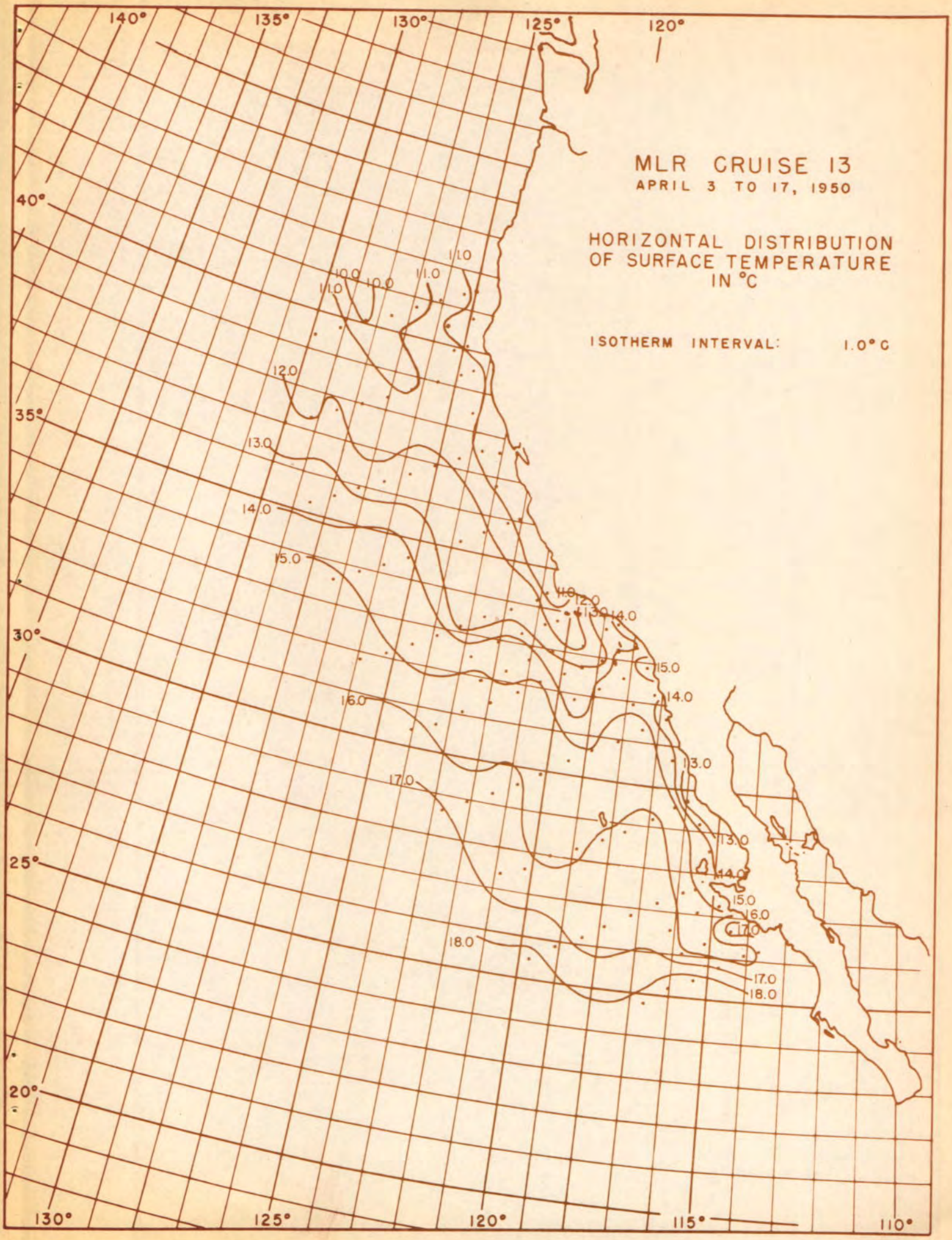
MV HORIZON

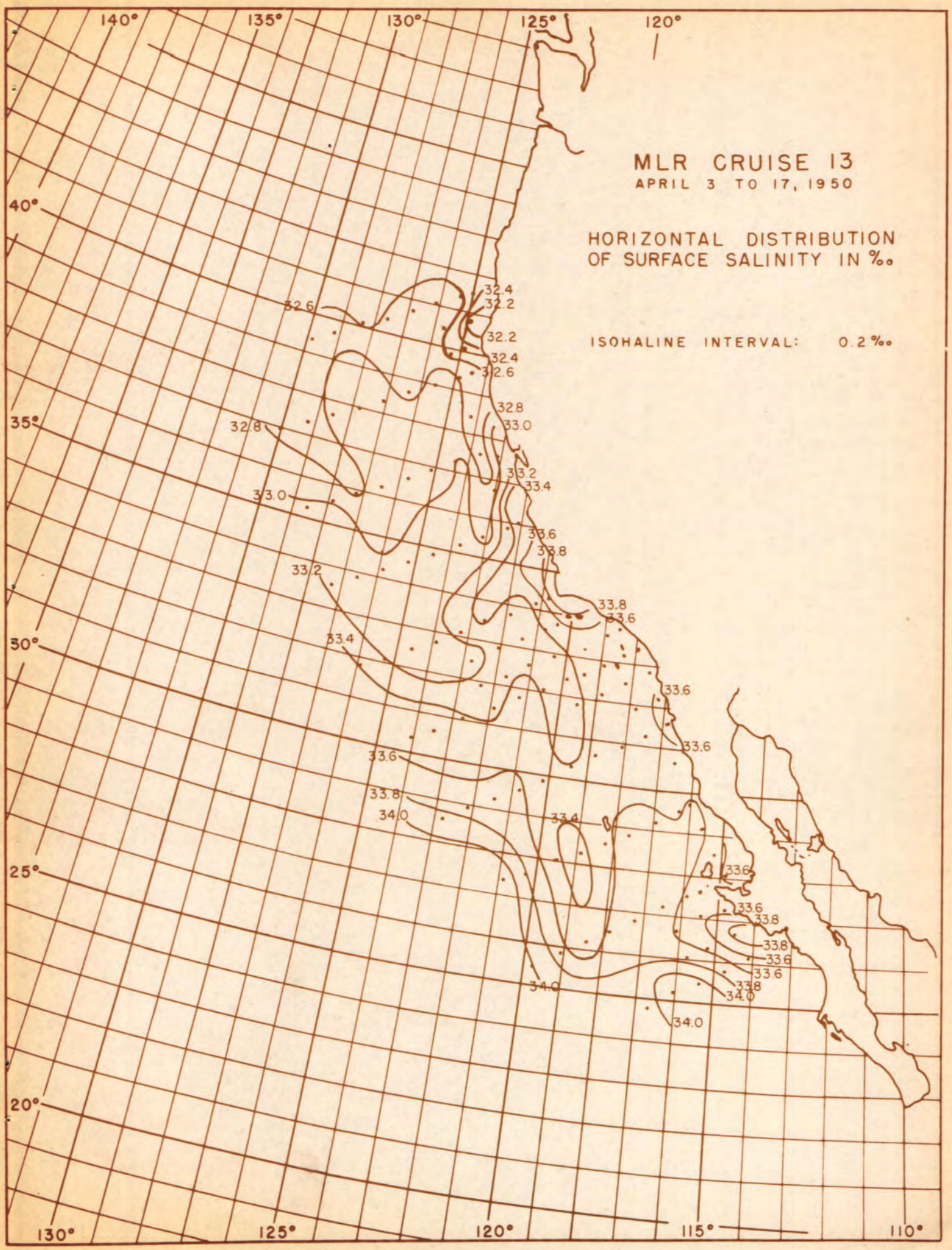
Sampson, Robert K., Senior Marine Technician
Drummond, Kenneth H., Marine Technician
Hayes, Margaret A., Laboratory Technician
Kramer, David, Marine Biologist, Fish and Wildlife Service
Taylor, Frederick H., Research Assistant
Wilburn, Virginia A., Statistician
Wilson, Ray E., Marine Technician, Chemical

PERSONNEL PARTICIPATING IN PREPARATION OF DATA

Barney, Ruth M., Stenographer
Barstow, Mary C., Laboratory Technician
Beckwith, Warren W., Senior Marine Technician
Brown, Curthie F., Engineering Aid
Chewning, Colleen J., Engineering Aid
Cunningham, Leonard M., Marine Technician
Dorwin, Patricia R., Engineering Aid
Eby, Lorraine L., Engineering Aid
Forshaw, Andrew W., Engineering Aid
Gilkey, Robert W., Marine Technician
Gossett, David A., Marine Technician
Haddow, Robert W., Marine Technician
Hargrett, Anne L., Typist-Clerk
Hazelbaker, Bernard R., Engineering Aid
Herreshoff, Karl F., Marine Technician, Chemical
Hutchins, Dorsey M., Typist-Clerk
Jennings, Feenan D., Research Assistant
Kartrude, Robert C., Laboratory Technician
Kinman, Gladys, Engineering Aid
Kirk, Robert W., Engineering Aid
Klein, Hans T., Principal Laboratory Technician
Koide, Minoru, Marine Technician, Chemical
Mao, Han-Lee, Research Assistant
McCoy, Willis M., Engineering Aid
Propsner, Ruth O., Engineering Aid
Ratty, Donald K., Marine Technician
Shippey, Henry G., Marine Technician
Smith, Alan C., Marine Technician
Squire, Mary C., Laboratory Technician
Trent, Luz F., Laboratory Technician
Whitney, Alice D., Engineering Aid
Wilburn, Virginia A., Statistician
Wilkes, Frances C., Engineering Aid
Winchell, Perrin, Marine Technician, Chemical


MLR CRUISE 13
APRIL 3 TO 17, 1950
DYNAMIC HEIGHT ANOMALIES
(0 OVER 1000 DECIBARS)
CORRECTED FOR TIDAL EFFECT
CONTOUR INTERVAL: 0.05 DYNAMIC METERS
CURRENT DIRECTION AS INDICATED BY ARROWS
DISTANCE BETWEEN CONTOURS
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
CURRENT SPEED (32°N)
140° 135° 130° 125° 120°
40° 35° 30° 25° 20°
130° 125° 120° 115° 110°
1.30 1.30 1.35 1.40 1.45 1.50 1.35 1.35 1.30 1.25 1.25 1.25 1.30 1.50 1.50 1.35 1.40 1.45


MLR CRUISE 13
APRIL 3 TO 17, 1950
HORIZONTAL DISTRIBUTION OF SURFACE TEMPERATURE IN °C
ISOTHERM INTERVAL: 1.0° C
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
10.0
11.0
12.0
13.0
14.0
15.0
16.0
17.0
18.0


MLR CRUISE 13
APRIL 3 TO 17, 1950
HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY IN ‰
ISOHALINE INTERVAL: 0.2 ‰
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
32.4
32.2
32.6
32.2
32.4
32.6
32.8
33.0
32.8
33.2
33.4
33.0
33.6
33.8
33.2
33.8
33.6
33.4
33.6
33.6
33.6
33.8
34.0
33.4
33.6
33.6
33.8
33.8
33.6
33.6
33.8
34.0
34.0
34.0

STATION 40.45 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°33'N 125°00'W April 16, 1950 0601 GCT Wire angle: 0°
Sounding: 700 fms. Depth of observation: 897 m. Weather: fog Sea: rough
Wind: 310°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.39	32.48	24.94	302.4	.0000	6.40	-
10	10.37	32.52	24.98	299.0	.0302	6.39	-
20	10.25	32.56	25.03	294.8	.0600	6.36	-
30	10.15	32.62	25.09	288.7	.0893	6.29	-
50	9.90	32.76	25.24	274.7	.1459	6.07	-
75	8.67	33.08	25.69	232.7	.2097	4.97	-
100	8.35	33.48	26.05	198.7	.2640	3.86	-
150	8.03	33.80	26.35	171.3	.357	2.78	-
200	7.48	33.95	26.55	152.9	.439	2.28	-
250	6.92	34.01	26.67	141.8	.513	1.88	-
300	6.43	34.04	26.76	133.7	.582	1.53	-
400	5.90	34.09	26.87	124.5	.712	1.05	-
500	5.20	34.20	27.04	108.8	.830	.67	-
600	4.66	34.25	27.14	99.6	.935	.44	-
700	4.41	34.27	27.19	96.2	1.034	.40	-
800	4.09	34.33	27.27	88.7	1.127	.37	-
1000	3.64	34.43	27.39	78.1	1.296	-	-

STATION 40.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°23'N 125°23'W April 16, 1950 0122 GCT Wire angle: 5°
Sounding: 1,700 fms. Depth of observation: 1,184 m. Weather: partly cloudy
Sea: rough Wind: 260°, force 1

0	11.27	32.65	24.92	304.3	.0000	6.50	-
10	10.24	32.62	25.08	290.0	.0298	6.45	-
20	10.04	32.61	25.10	287.7	.0588	6.47	-
30	9.95	32.61	25.11	286.7	.0877	6.49	-
50	9.88	32.61	25.13	285.2	.1451	6.47	-
75	9.43	32.76	25.32	268.0	.2147	5.96	-
100	8.32	33.25	25.88	215.4	.2755	5.30	-
150	7.91	33.80	26.37	169.5	.372	3.00	-
200	7.45	33.93	26.54	154.0	.454	2.50	-
250	6.97	34.00	26.66	143.1	.529	2.13	-
300	6.48	34.03	26.75	134.9	.599	1.75	-
400	5.74	34.05	26.86	125.5	.730	1.13	-
500	5.27	34.10	26.95	117.1	.852	.76	-
600	4.98	34.21	27.08	106.5	.965	.54	-
700	4.52	34.26	27.17	98.2	1.068	.45	-
800	4.14	34.30	27.24	91.7	1.164	.37	-
1000	3.64	34.39	27.36	81.0	1.339	.47	-

STATION 40.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°03'N 126°09'W April 15, 1950 1946 GCT Wire angle: 13°
Sounding: 1,680 fms. Depth of observation: 1,162 m. Weather: overcast
Sea: rough Wind: 260°, force 1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	11.22	32.74	25.00	297.1	.0000	6.06	-
10	11.02	32.74	25.04	293.9	.0297	5.94	-
20	10.90	32.72	25.04	293.5	.0592	5.87	-
30	10.84	32.72	25.05	292.8	.0886	5.85	-
50	10.74	32.74	25.08	290.1	.1472	5.84	-
75	9.82	32.84	25.32	268.3	.2174	5.44	-
100	8.67	33.15	25.74	228.0	.2798	4.55	-
150	7.76	33.68	26.29	176.3	.382	3.50	-
200	7.61	33.93	26.51	156.3	.465	2.55	-
250	7.14	33.99	26.63	146.1	.541	2.20	-
300	6.56	34.02	26.73	136.8	.613	1.86	-
400	5.77	34.09	26.88	122.8	.743	.93	-
500	5.27	34.14	26.98	114.1	.863	.66	-
600	4.81	34.23	27.11	103.1	.973	.40	-
700	4.57	34.31	27.20	94.9	1.073	.32	-
800	4.29	34.37	27.28	88.1	1.165	.34	-
1000	3.51	34.41	27.39	78.1	1.333	.45	-

STATION 40.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°42'N 126°55'W April 15, 1950 1359 GCT Wire angle: 4°
Sounding: 1,680 fms. Depth of observation: 1,175 m. Weather: overcast
Sea: rough Wind: 220°, force 2

0	10.84	32.70	25.04	293.3	.0000	6.37	-
10	10.84	32.70	25.04	293.3	.0295	6.37	-
20	10.83	32.71	25.05	293.1	.0589	6.35	-
30	10.80	32.73	25.07	291.2	.0882	6.30	-
50	10.63	32.80	25.15	283.8	.1460	6.35	-
75	9.98	32.95	25.38	262.4	.2147	5.80	-
100	9.02	33.29	25.80	222.9	.2757	4.70	-
150	8.38	33.66	26.19	186.7	.379	3.50	-
200	7.75	33.92	26.48	159.1	.466	2.48	-
250	7.13	34.00	26.64	145.2	.543	2.23	-
300	6.65	34.04	26.73	136.6	.614	2.06	-
400	6.07	34.11	26.87	125.0	.745	1.02	-
500	5.34	34.16	26.99	113.6	.866	.72	-
600	4.80	34.21	27.09	104.3	.976	.53	-
700	4.45	34.28	27.19	95.9	1.077	.43	-
800	4.12	34.34	27.27	88.5	1.170	.38	-
1000	3.59	34.40	27.37	79.7	1.340	.40	-

STATION 40.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°23'N 127°40'W April 15, 1950 0742 GCT Wire angle: 16°
Sounding: 850 fms. Depth of observation: 1,134 m. Weather: overcast
Sea: very rough Wind: 220°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5/\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.93	32.68	25.00	296.8	.0000	5.74	-
10	10.92	32.70	25.02	295.1	.0297	5.67	-
20	10.85	32.71	25.04	293.4	.0593	5.66	-
30	10.60	32.70	25.08	290.2	.0886	5.65	-
50	9.00	32.57	25.24	274.8	.1453	5.60	-
75	8.75	32.73	25.40	260.0	.2126	5.70	-
100	8.00	33.26	25.93	210.1	.2717	4.35	-
150	7.67	33.75	26.36	169.8	.367	3.20	-
200	7.40	33.97	26.58	150.2	.448	2.15	-
250	6.75	34.02	26.70	138.7	.521	1.65	-
300	6.30	34.05	26.79	131.2	.589	1.34	-
400	5.63	34.10	26.91	120.4	.715	.86	-
500	5.15	34.15	27.01	112.0	.833	.55	-
600	4.77	34.24	27.12	101.8	.941	.43	-
700	4.40	34.36	27.26	89.3	1.037	.34	-
800	4.10	34.40	27.32	83.7	1.124	.31	-
1000	3.50	34.41	27.39	77.9	1.288	.55	-

STATION 40.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°02'N 128°25'W April 14, 1950 2359 GCT Wire angle: 7°
Sounding: 2.460 fms. Depth of observation: 1,239 m. Weather: cloudy
Sea: very rough Wind: 230°, force 3

0	9.97	32.59	25.10	288.1	.0000	6.54	-
10	9.93	32.61	25.12	285.9	.0288	6.60	-
20	9.69	32.60	25.15	282.8	.0574	6.57	-
30	9.44	32.59	25.19	279.9	.0856	6.54	-
50	8.82	32.60	25.29	270.1	.1409	6.53	-
75	7.81	32.72	25.53	247.2	.2059	6.15	-
100	8.22	33.42	26.02	201.3	.2623	4.40	-
150	7.58	33.80	26.41	164.9	.355	3.05	-
200	7.05	33.95	26.61	147.1	.433	2.57	-
250	6.64	33.97	26.68	140.9	.506	2.14	-
300	6.32	33.98	26.73	136.7	.576	1.69	-
400	5.45	34.06	26.90	121.3	.706	1.02	-
500	4.96	34.16	27.04	108.8	.822	.65	-
600	4.55	34.25	27.16	98.4	.926	.48	-
700	4.21	34.31	27.24	90.9	1.022	.40	-
800	3.90	34.34	27.29	86.0	1.111	.38	-
1000	3.40	34.44	27.42	74.5	1.273	.46	-

STATION 40.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°42'N 129°10'W April 14, 1950 1746 GCT Wire angle: 26°
Sounding: 2,520 fms. Depth of observation: 1,015 Weather: overcast
Sea: very rough Wind: 240°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m)	O_2 (ml/L)	PO_4-P (μg at/L)
0	11.18	32.70	24.98	299.1	.0000	5.25	-
10	11.15	32.75	25.03	294.8	.0298	4.96	-
20	11.02	32.71	25.01	296.2	.0595	5.10	-
30	10.76	32.70	25.05	292.6	.0890	5.05	-
50	10.44	32.72	25.12	286.5	.1472	4.85	-
75	9.89	32.68	25.22	277.8	.2182	5.20	-
100	8.80	32.65	25.33	266.9	.2867	4.75	-
150	7.78	33.10	25.84	219.5	.409	3.47	-
200	7.39	33.63	26.31	175.4	.509	3.81	-
250	7.22	33.91	26.55	153.1	.591	3.61	-
300	6.79	33.98	26.67	142.8	.666	2.97	-
400	5.25	33.98	26.86	124.7	.801	1.45	-
500	4.76	34.03	26.96	116.2	.922	.89	-
600	4.38	34.18	27.12	101.5	1.032	.58	-
700	4.12	34.29	27.23	91.4	1.129	.38	-
800	3.89	34.31	27.27	88.1	1.220	.30	-
1000	3.48	34.42	27.40	76.8	1.387	.35	-

STATION 40.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°23'N 129°55'W April 14, 1950 1029 GCT Wire angle: 9°
Sounding: 2,460 fms. Depth of observation: 1,172 m. Weather: overcast
Sea: high Wind: 280°, force 3

0	11.81	32.74	24.89	307.1	.0000	6.55	-
10	11.77	32.74	24.90	306.7	.0308	6.65	-
20	11.78	32.73	24.89	307.7	.0617	6.65	-
30	11.78	32.72	24.88	308.9	.0926	6.67	-
50	11.64	32.72	24.91	306.8	.1545	7.20	-
75	10.94	32.66	24.98	300.0	.2308	6.65	-
100	10.27	32.73	25.16	283.8	.3042	6.02	-
150	8.86	33.23	25.78	225.6	.432	4.93	-
200	7.93	33.67	26.26	180.3	.535	3.92	-
250	7.41	33.88	26.50	158.1	.620	3.18	-
300	6.98	33.97	26.63	146.3	.697	2.55	-
400	5.93	34.00	26.79	131.5	.837	1.62	-
500	5.29	34.07	26.93	119.5	.963	.97	-
600	4.81	34.09	27.00	113.3	1.081	.60	-
700	4.42	34.19	27.12	102.4	1.189	.48	-
800	4.09	34.32	27.26	89.5	1.286	.41	-
1000	3.58	34.39	27.37	80.2	1.458	.43	-

STATION 43.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°48'N 124°57'W April 16, 1950 1253 GCT Wire angle: 5°
Sounding: 1,540 fms. Depth of observation: 1,191 m. Weather: fog
Sea: moderate Wind: 320°, force 1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.78	32.16	24.63	332.0	.0000	6.67	-
10	10.60	32.20	24.69	326.9	.0331	6.70	-
20	10.02	32.43	24.96	300.7	.0646	6.46	-
30	9.70	32.51	25.08	289.7	.0942	6.37	-
50	9.29	32.59	25.21	277.9	.1513	6.41	-
75	8.98	33.23	25.76	226.4	.2147	4.50	-
100	8.53	33.59	26.11	193.3	.2675	3.53	-
150	7.62	33.88	26.47	159.5	.356	2.48	-
200	7.17	33.93	26.58	150.1	.434	2.09	-
250	6.98	33.92	26.59	149.1	.510	2.04	-
300	6.75	33.89	26.60	149.0	.585	2.03	-
400	6.03	34.09	26.85	126.2	.723	1.20	-
500	5.28	34.16	27.00	112.7	.844	.76	-
600	5.02	34.25	27.10	103.9	.953	.58	-
700	4.61	34.32	27.20	94.9	1.054	.47	-
800	4.22	34.34	27.26	89.8	1.147	.42	-
1000	3.65	34.44	27.40	77.4	1.316	.49	-

STATION 43.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°28'N 124°57'W April 16, 1950 1951 GCT Wire angle: 3°
Sounding: 1,550 fms. Depth of observation: 1,195 m. Weather: fog
Sea: moderate Wind: 290°, force 1

0	10.95	32.63	24.96	300.6	.0000	6.02	-
10	10.53	32.59	25.00	296.9	.0300	6.04	-
20	10.15	32.59	25.07	290.8	.0595	6.24	-
30	10.02	32.59	25.09	289.2	.0886	6.28	-
50	9.92	32.61	25.12	286.2	.1464	6.18	-
75	8.77	32.63	25.32	267.6	.2161	6.17	-
100	7.96	33.22	25.91	212.4	.2764	5.30	-
150	7.88	33.74	26.33	173.4	.374	3.09	-
200	7.50	33.89	26.50	157.6	.457	2.54	-
250	7.03	33.96	26.62	147.0	.534	2.08	-
300	6.51	34.00	26.72	137.7	.605	1.69	-
400	5.62	34.05	26.87	124.0	.737	1.12	-
500	5.13	34.09	26.96	116.1	.858	.72	-
600	4.78	34.20	27.09	104.8	.970	.52	-
700	4.44	34.28	27.19	95.8	1.071	.45	-
800	4.11	34.33	27.26	89.2	1.164	.43	-
1000	3.60	34.41	27.38	79.1	1.335	.52	-

STATION 47.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°04'N 124°55'W April 17, 1950 0647 GCT Wire angle: 15°
Sounding: 685 fms. Depth of observation: 955 m. Weather: clear
Sea: rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.69	32.41	24.84	312.3	.0000	5.42	-
10	10.65	32.43	24.86	310.6	.0313	5.31	-
20	10.70	32.52	24.92	304.8	.0622	5.29	-
30	10.70	32.65	25.02	295.4	.0923	5.25	-
50	9.68	32.69	25.23	275.9	.1497	5.09	-
75	8.96	33.22	25.75	226.7	.2129	4.10	-
100	8.55	33.51	26.04	199.6	.2665	3.20	-
150	8.00	33.78	26.34	172.3	.360	2.40	-
200	7.58	33.92	26.51	156.6	.443	2.15	-
250	7.05	33.98	26.63	145.7	.519	1.81	-
300	6.52	34.03	26.74	136.0	.590	1.39	-
400	5.82	34.09	26.88	123.5	.721	.84	-
500	5.31	34.16	26.99	113.3	.840	.57	-
600	4.95	34.22	27.09	105.4	.951	.51	-
700	4.67	34.33	27.21	94.7	1.052	.40	-
800	4.31	34.34	27.25	90.8	1.145	.40	-
1000	3.60	34.41	27.38	79.1	1.317	(.45)	-

STATION 47.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°54'N 125°18'W April 17, 1950 0147 GCT Wire angle: 15°
Sounding: 1,500 fms. Depth of observation: 1,177 m. Weather: partly cloudy
Sea: moderate Wind: 290°, force 2

0	11.27	32.57	24.86	310.0	.0000	6.02	-
10	11.14	32.60	24.90	306.3	.0309	5.91	-
20	11.00	32.66	24.98	299.6	.0614	6.21	-
30	10.75	32.66	25.02	295.6	.0912	6.22	-
50	9.92	32.66	25.16	282.7	.1494	6.01	-
75	8.66	32.86	25.52	248.8	.2162	4.85	-
100	8.32	33.33	25.94	209.5	.2738	4.10	-
150	7.92	33.85	26.40	165.9	.368	2.20	-
200	7.50	33.97	26.56	151.7	.448	1.81	-
250	7.23	34.01	26.63	145.9	.523	1.57	-
300	6.98	34.03	26.68	141.7	.596	1.46	-
400	6.28	34.06	26.80	131.5	.733	1.12	-
500	5.44	34.15	26.97	115.6	.858	.61	-
600	4.94	34.21	27.08	106.0	.970	.41	-
700	4.56	34.28	27.18	97.2	1.072	.32	-
800	4.21	34.34	27.26	89.7	1.167	.30	-
1000	3.56	34.40	27.38	79.4	1.338	.48	-

STATION 50.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°30'N 124°30'W April 10, 1950 2123 GCT Wire angle: 5°
Sounding: 1,100 fms. Depth of observation: 1,193 m. Weather: partly cloudy
Sea: moderate Wind: 120°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	11.54	32.73	24.93	303.4	.0000	5.80	-
10	11.42	32.73	24.96	301.3	.0304	4.89	-
20	11.18	32.72	24.99	298.2	.0605	5.45	-
30	11.10	32.71	25.00	297.6	.0904	5.67	-
50	11.04	32.72	25.02	296.2	.1500	5.75	-
75	9.38	32.82	25.37	262.7	.2203	5.32	-
100	9.19	33.34	25.81	221.7	.2812	4.27	-
150	8.11	33.68	26.24	181.3	.383	3.26	-
200	7.44	33.89	26.51	156.9	.468	2.85	-
250	6.89	33.97	26.65	144.2	.544	2.41	-
300	6.41	34.00	26.73	136.4	.614	1.88	-
400	5.61	34.05	26.87	124.0	.746	1.10	-
500	5.00	34.13	27.01	111.5	.864	.72	-
600	4.77	34.22	27.11	103.2	.973	.39	-
700	4.39	34.29	27.20	94.3	1.072	.31	-
800	4.14	34.34	27.27	88.7	1.165	.30	-
1000	3.75	34.40	27.36	81.6	1.337	.44	-

STATION 50.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°20'N 124°52'W April 11, 1950 0203 GCT Wire angle: 17°
Sounding: 1,600 fms. Depth of observation: 1,121 m. Weather: partly cloudy
Sea: moderate Wind: 140°, force 3

0	11.77	32.80	24.95	302.0	.0000	5.58	-
10	11.74	32.83	24.98	299.5	.0302	6.16	-
20	11.49	32.84	25.03	294.6	.0600	6.22	-
30	11.38	32.84	25.04	293.6	.0896	6.22	-
50	11.34	32.83	25.05	293.2	.1485	6.18	-
75	10.39	32.91	25.28	272.1	.2196	5.91	-
100	9.43	33.18	25.65	237.4	.2837	4.86	-
150	8.18	33.61	26.18	187.4	.391	3.56	-
200	7.94	33.84	26.39	167.8	.480	2.74	-
250	7.06	33.95	26.61	148.1	.560	2.28	-
300	6.45	34.01	27.74	136.1	.631	1.90	-
400	5.61	34.07	26.89	122.4	.761	1.20	-
500	5.09	34.14	27.01	111.8	.880	.76	-
600	4.79	34.19	27.08	105.6	989	.44	-
700	4.44	34.24	27.16	98.8	1.092	.34	-
800	4.15	34.29	27.23	92.5	1.189	.35	-
1000	3.60	34.41	27.38	79.1	1.363	.50	-

STATION 50.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°00'N 125°36.5'W April 11, 1950 1103 GCT Wire angle: 15°
Sounding: 2,100 fms. Depth of observation: 1,117 m. Weather: clear
Sea: rough Wind: 140°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	11.74	32.84	24.98	298.6	.0000	5.58	-
10	11.72	32.83	24.98	299.3	.0300	5.70	-
20	11.70	32.84	24.99	298.4	.0600	5.22	-
30	11.67	32.84	25.00	298.1	.0900	5.25	-
50	11.45	32.84	25.04	294.5	.1495	5.63	-
75	10.67	32.90	25.22	277.4	.2214	5.39	-
100	10.15	33.27	25.60	242.1	.2868	3.80	-
150	9.04	33.61	26.04	200.5	.398	2.94	-
200	7.52	33.79	26.42	165.5	.490	3.34	-
250	6.87	33.92	26.61	147.8	.569	2.97	-
300	6.37	33.96	26.71	138.7	.641	2.36	-
400	5.63	33.98	26.81	129.5	.777	1.25	-
500	5.07	34.13	27.00	112.3	.899	.72	-
600	4.60	34.22	27.13	101.1	1.006	.44	-
700	4.28	34.29	27.21	93.2	1.104	.28	-
800	4.01	34.34	27.28	87.3	1.196	.30	-
1000	3.57	34.43	27.40	77.2	1.362	.56	-

STATION 50.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°40'N 126°21'W April 11, 1950 1909 GCT Wire angle: 27°
Sounding: 2,360 fms. Depth of observation: 992 m. Weather: overcast
Sea: very rough Wind: 160°, force 5

0	10.85	32.70	25.04	293.5	.0000	(6.34)	-
10	10.83	32.68	25.02	295.1	.0296	6.34	-
20	10.81	32.70	25.04	293.3	.0591	6.34	-
30	10.65	32.70	25.07	290.9	.0884	6.37	-
50	10.12	32.68	25.15	283.9	.1462	6.38	-
75	9.00	32.73	25.36	263.7	.2150	6.11	-
100	7.97	33.02	25.75	227.6	.2768	5.05	-
150	7.69	33.76	26.37	169.3	.377	4.09	-
200	7.35	33.87	26.50	157.0	.459	3.78	-
250	6.77	33.94	26.64	144.9	.535	3.15	-
300	6.31	34.01	26.75	134.4	.605	2.22	-
400	5.29	34.03	26.90	121.3	.734	1.35	-
500	4.97	34.16	27.04	108.9	.850	.78	-
600	4.61	34.21	27.12	102.2	.957	.48	-
700	4.27	34.27	27.20	94.6	1.056	.39	-
800	3.98	34.35	27.30	86.1	1.147	.37	-
1000	3.46	34.42	27.40	76.7	1.312	(.45)	-

STATION 50.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°20'N 127°05'W April 12, 1950 0522 GCT Wire angle: 28°
Sounding: 2,460 fms. Depth of observation: 1,156 m. Weather: overcast
Sea: very rough Wind: 180°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	11.91	32.94	25.03	294.2	.0000	5.78	-
10	11.89	32.95	25.04	293.3	.0295	5.71	-
20	11.90	32.95	25.04	293.6	.0590	5.74	-
30	11.83	32.94	25.05	293.3	.0884	5.73	-
50	11.12	32.97	25.20	279.4	.1460	5.53	-
75	10.50	33.27	25.54	247.5	.2122	4.65	-
100	9.60	33.53	25.89	214.1	.2703	3.74	-
150	8.15	33.80	26.33	172.8	.368	2.90	-
200	7.80	34.02	26.56	152.4	.450	2.26	-
250	7.50	34.08	26.65	144.3	.524	1.82	-
300	7.09	34.09	26.71	138.7	.596	1.45	-
400	5.98	34.13	26.89	122.4	.727	.93	-
500	5.35	34.13	26.97	116.0	.847	.59	-
600	5.00	34.27	27.12	102.1	.957	.40	-
700	4.63	34.32	27.20	95.1	1.057	.39	-
800	4.30	34.35	27.26	89.8	1.150	.38	-
1000	3.72	34.46	27.41	76.8	1.319	.45	-

STATION 50.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°00'N 127°49'W April 12, 1950 1325 GCT Wire angle: 2°
Sounding: 2,500 fms. Depth of observation: 1,190 m. Weather: partly cloudy
Sea: rough Wind: 180°, force 5

0	11.46	32.83	25.03	294.5	.0000	5.92	-
10	11.45	32.83	25.03	294.5	.0296	6.26	-
20	11.48	32.83	25.02	295.2	.0592	6.22	-
30	11.49	32.82	25.01	296.4	.0889	6.20	-
50	10.15	32.81	25.24	275.1	.1463	6.13	-
75	8.64	32.92	25.57	244.2	.2116	5.55	-
100	8.28	33.18	25.83	219.9	.2700	4.90	-
150	8.00	33.74	26.31	175.2	.369	3.35	-
200	7.64	33.96	26.53	154.5	.452	2.56	-
250	7.15	34.02	26.65	144.0	.528	2.23	-
300	6.61	34.04	26.74	136.1	.598	1.97	-
400	5.64	34.09	26.90	121.3	.728	1.20	-
500	5.03	34.14	27.01	111.3	.845	.89	-
600	4.79	34.26	27.14	100.5	.952	.45	-
700	4.37	34.33	27.24	91.2	1.049	.40	-
800	4.01	34.39	27.32	83.7	1.137	.40	-
1000	3.59	34.48	27.44	73.8	1.296	.58	-

STATION 50.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°40'N 128°33'W April 12, 1950 2047 GCT Wire angle: 14°
Sounding: 2,600 fms. Depth of observation: 1,151 m. Weather: cloudy
Sea: high Wind: 260°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	12.20	32.83	24.89	307.5	.0000	4.90	-
10	12.04	32.86	24.94	302.7	.0306	5.05	-
20	12.09	32.92	24.98	299.4	.0609	5.31	-
30	12.09	32.99	25.03	294.5	.0907	5.57	-
50	11.35	33.07	25.23	275.8	.1480	5.64	-
75	10.10	33.29	25.62	239.4	.2128	4.75	-
100	9.45	33.49	25.89	214.6	.2699	3.63	-
150	7.94	33.75	26.32	173.6	.368	2.88	-
200	7.36	33.92	26.54	153.4	.450	2.55	-
250	6.84	33.96	26.64	144.5	.525	2.09	-
300	6.35	33.98	26.73	137.0	.596	1.58	-
400	5.53	34.02	26.86	125.2	.728	1.14	-
500	5.08	34.11	26.98	114.0	.848	.67	-
600	4.70	34.18	27.08	105.3	.959	.41	-
700	4.41	34.26	27.18	96.9	1.061	.40	-
800	4.14	34.35	27.28	87.9	1.154	.40	-
1000	3.60	34.44	27.40	76.9	1.321	.43	-

STATION 50.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°20'N 129°16.5'W April 13, 1950 0415 GCT Wire angle: 28°
Sounding: 2,600 fms. Depth of observation: 890 m. Weather: partly cloudy
Sea: high Wind: 260°, force 4

0	11.95	32.75	24.87	308.9	.0000	(6.30)	-
10	11.95	32.73	24.86	310.6	.0311	6.21	-
20	11.95	32.72	24.85	311.4	.0623	6.11	-
30	11.95	32.72	24.85	311.7	.0936	6.02	-
50	11.75	32.72	24.89	308.7	.1560	5.96	-
75	10.40	32.69	25.10	289.4	.2311	6.07	-
100	9.41	32.66	25.25	275.3	.3022	5.80	-
150	8.30	33.36	25.96	207.7	.424	4.58	-
200	7.41	33.69	26.35	171.3	.519	3.90	-
250	6.82	33.86	26.57	151.5	.600	3.25	-
300	6.40	33.97	26.71	138.4	.673	2.45	-
400	5.73	34.05	26.86	125.5	.806	1.01	-
500	5.13	34.09	26.96	116.1	.928	.82	-
600	4.67	34.18	27.09	104.9	1.040	.49	-
700	4.37	34.26	27.18	96.5	1.141	.44	-
800	4.13	34.32	27.26	90.1	1.236	.42	-
1000	3.75	34.43	27.38	79.3	1.407	(.45)	-

STATION 50.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°00'N 130°00'W April 13, 1950 1237 GCT Wire angle: 13°
Sounding: 2,720 fms. Depth of observation: 1147 m. Weather: clear
Sea: high Wind: 300°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	12.60	32.78	24.78	318.4	.0000	5.52	-
10	12.70	32.78	24.75	320.6	.0321	5.42	-
20	12.70	32.77	24.75	321.5	.0643	5.30	-
30	12.61	32.77	24.76	320.2	.0965	5.19	-
50	12.33	32.76	24.81	316.2	.1605	5.08	-
75	11.45	32.72	24.94	304.1	.2385	5.30	-
100	10.98	32.74	25.04	295.0	.3138	4.80	-
150	8.68	33.10	25.70	232.5	.447	4.18	-
200	7.99	33.57	26.18	188.4	.553	3.25	-
250	7.40	33.82	26.46	162.4	.641	2.37	-
300	6.78	33.94	26.64	145.7	.718	2.06	-
400	5.53	33.96	26.81	129.7	.857	1.70	-
500	4.79	34.02	26.95	117.1	.982	1.00	-
600	4.53	34.13	27.06	107.1	1.095	.38	-
700	4.22	34.20	27.15	99.3	1.199	.35	-
800	3.96	34.26	27.22	92.6	1.296	.32	-
1000	3.71	34.40	27.38	79.0	1.469	.32	-

STATION 55.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°28.5'N 124°14'W April 10, 1950 1252 GCT Wire angle: 3°
Sounding: 1,930 fms. Depth of observation: 1,196 m. Weather: partly cloudy
Sea: moderate Wind: calm

0	11.14	32.75	25.02	294.9	.0000	6.07	-
10	11.15	32.74	25.01	296.0	.0297	6.04	-
20	11.06	32.74	25.03	294.8	.0593	6.08	-
30	10.98	32.74	25.04	293.6	.0889	6.10	-
50	10.94	32.75	25.06	292.6	.1478	6.08	-
75	10.60	32.76	25.12	286.7	.2206	6.10	-
100	9.38	33.17	25.65	237.2	.2865	4.98	-
150	8.30	33.62	26.17	188.5	.394	3.55	-
200	7.65	33.87	26.46	161.4	.482	2.92	-
250	7.04	33.94	26.60	148.5	.560	2.50	-
300	6.51	33.98	26.70	139.2	.632	2.08	-
400	5.62	34.05	26.87	124.0	.765	1.17	-
500	5.15	34.17	27.02	110.4	.883	.68	-
600	4.80	34.20	27.09	105.0	.992	.52	-
700	4.48	34.25	27.16	98.3	1.094	.37	-
800	4.17	34.32	27.25	90.6	1.190	.31	-
1000	3.17	34.40	27.36	81.2	1.364	.58	-

STATION 60.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°35'N 123°40'W April 9, 1950 2106 GCT Wire angle: 17°
Sounding: 1,900 fms. Depth of observation: 1,129 m. Weather: partly cloudy
Sea: rough Wind: 330°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 s$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.58	32.70	25.08	289.2	.0000	6.88	-
10	10.32	32.70	25.13	285.0	.0288	6.48	-
20	10.10	32.73	25.19	279.7	.0572	6.33	-
30	9.96	32.86	25.31	268.2	.0847	6.10	-
50	9.00	33.01	25.58	242.6	.1360	5.48	-
75	8.51	33.34	25.92	211.3	.1931	4.65	-
100	8.49	33.63	26.14	189.9	.2435	3.50	-
150	8.35	33.94	26.41	165.4	.333	2.58	-
200	7.98	34.05	26.55	152.6	.413	2.38	-
250	7.48	34.08	26.65	144.1	.488	1.81	-
300	6.90	34.10	26.75	135.5	.558	1.42	-
400	5.99	34.16	26.91	120.3	.687	.90	-
500	5.42	34.19	27.00	112.4	.804	.60	-
600	5.09	34.30	27.13	101.1	.912	.45	-
700	4.62	34.39	27.26	89.8	1.009	.37	-
800	4.29	34.42	27.32	84.5	1.097	.37	-
1000	3.79	34.45	27.39	78.4	1.261	.57	-

STATION 60.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°17'N 124°21'W April 9, 1950 1403 GCT Wire angle: 11°
Sounding: 2,240 fms. Depth of observation: 1,173 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 5

0	11.70	33.01	25.12	285.4	.0000	6.33	-
10	11.69	32.94	25.07	290.5	.0289	6.18	-
20	11.69	32.97	25.09	288.5	.0580	6.20	-
30	11.67	33.01	25.13	285.5	.0868	6.23	-
50	11.52	33.09	25.22	277.3	.1434	6.23	-
75	10.03	33.30	25.64	237.4	.2081	5.15	-
100	9.22	33.64	26.04	200.0	.2631	3.88	-
150	8.76	33.94	26.35	171.5	.357	2.75	-
200	8.04	34.00	26.50	157.4	.439	2.18	-
250	7.25	34.01	26.63	146.1	.516	2.06	-
300	6.64	34.01	26.71	138.7	.587	1.97	-
400	5.75	34.07	26.97	124.1	.720	1.15	-
500	5.28	34.21	27.04	109.0	.838	.62	-
600	5.02	34.35	27.18	96.7	.941	.40	-
700	4.63	34.35	27.22	92.9	1.037	.37	-
800	4.33	34.38	27.28	88.0	1.128	.38	-
1000	3.76	34.51	27.44	73.6	1.292	.49	

STATION 60.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°57'N 125°04'W April 9, 1950 0619 GCT Wire angle: 9°
Sounding: 2,400 fms. Depth of observation: 1,135 m. Weather: clear
Sea: rough Wind: 270°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	12.36	32.90	24.91	305.4	.0000	6.10	-
10	12.38	32.89	24.92	304.8	.0306	6.25	-
20	12.35	32.95	24.95	301.8	.0611	6.05	-
30	12.28	32.96	24.98	299.9	.0913	6.02	-
50	11.38	32.97	25.15	283.7	.1499	6.13	-
75	9.30	32.97	25.50	250.4	.2171	5.50	-
100	8.81	33.49	25.99	205.0	.2744	4.46	-
150	8.39	33.85	26.34	172.6	.369	2.65	-
200	7.49	33.93	26.53	154.5	.452	2.37	-
250	7.07	33.99	26.64	145.2	.527	2.02	-
300	6.57	34.03	26.74	136.3	.598	1.68	-
400	5.40	34.09	26.93	118.4	.727	1.18	-
500	4.98	34.16	27.04	109.0	.841	.58	-
600	4.80	34.26	27.13	100.7	.947	.40	-
700	4.52	34.33	27.22	93.0	1.045	.34	-
800	4.19	34.37	27.29	87.1	1.136	.36	-
1000	3.62	34.43	27.39	78.0	1.303	.62	-

STATION 60.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°37'N 125°47'W April 9, 1950 0004 GCT Wire angle: 22°
Sounding: 2,480 fms. Depth of observation: 1,187 m. Weather: overcast
Sea: very rough Wind: 270°, force 5

0	12.43	32.95	24.94	303.0	.0000	5.49	-
10	12.45	32.95	24.93	303.6	.0305	5.43	-
20	12.45	32.97	24.95	302.2	.0609	5.55	-
30	12.35	32.97	24.97	300.7	.0911	5.55	-
50	11.50	32.97	25.13	285.8	.1501	5.42	-
75	10.00	33.13	25.51	249.6	.2174	4.27	-
100	9.30	33.37	25.82	221.3	.2766	4.14	-
150	8.31	33.77	26.28	177.6	.377	2.60	-
200	7.50	33.95	26.55	153.1	.460	2.26	-
250	6.88	34.01	26.68	141.1	.534	1.81	-
300	6.44	34.04	26.76	133.8	.604	1.36	-
400	5.79	34.15	26.93	118.5	.731	.75	-
500	5.12	34.20	27.05	107.9	.845	.58	-
600	4.64	34.28	27.17	97.3	.949	.41	-
700	4.40	34.35	27.25	90.0	1.043	.35	-
800	4.17	34.41	27.32	83.9	1.131	.37	-
1000	3.64	34.47	27.42	75.2	1.292	.55	-

STATION 60.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°17'N 126°30'W April 8, 1950 1547 GCT Wire angle: 19°
Sounding: 2,540 fms. Depth of observation: 1,224 m. Weather: partly cloudy
Sea: very rough Wind: 270°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	12.07	32.94	25.00	297.2	.0000	6.47	-
10	12.09	32.94	24.99	297.7	.0299	6.17	-
20	12.07	32.94	25.00	297.6	.0597	6.20	-
30	12.05	32.95	25.01	296.8	.0896	6.25	-
50	11.50	32.97	25.13	285.8	.1481	6.20	-
75	10.25	33.12	25.46	254.5	.2161	5.67	-
100	9.17	33.55	25.98	205.7	.2739	5.60	-
150	8.20	32.86	26.37	169.2	.368	2.70	-
200	7.57	34.01	26.58	149.9	.449	2.25	-
250	7.06	34.07	26.70	139.1	.521	1.83	-
300	6.57	34.11	26.80	130.3	.589	1.42	-
400	5.66	34.14	26.94	117.9	.714	.86	-
500	5.28	34.21	27.04	109.1	.829	.52	-
600	4.75	34.23	27.12	102.3	.936	.42	-
700	4.40	34.27	27.19	96.0	1.036	.36	-
800	4.11	34.34	27.27	88.5	1.129	.35	-
1000	3.58	34.44	27.41	76.7	1.296	.50	-

STATION 60.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°57'N 127°12'W April 8, 1950 0838 GCT Wire angle: 21°
Sounding: 2,610 fms. Depth of observation: 1,137 m. Weather: clear
Sea: very rough Wind: 270°, force 4

0	12.68	32.79	24.76	319.4	.0000	5.14	-
10	12.68	32.95	24.89	307.7	.0315	5.47	-
20	12.67	32.97	24.91	306.2	.0623	5.44	-
30	12.66	32.97	24.91	306.3	.0931	5.37	-
50	12.40	32.97	24.96	302.1	.1542	5.32	-
75	11.15	32.92	25.15	284.0	.2279	5.02	-
100	9.65	32.97	25.45	256.2	.2958	4.78	.
150	8.47	33.46	26.02	202.9	.411	4.25	-
200	7.94	33.78	26.35	172.1	.506	2.76	-
250	7.42	33.93	26.54	154.4	.588	2.32	-
300	6.68	34.01	26.71	139.0	.662	2.03	-
400	5.73	34.04	26.85	126.3	.796	1.07	-
500	5.21	34.12	26.98	114.9	.917	.77	-
600	4.74	34.20	27.09	104.4	1.028	.45	-
700	4.38	34.29	27.21	94.2	1.128	.36	-
800	4.07	34.37	27.30	85.7	1.219	.34	-
1000	3.58	34.47	27.43	74.5	1.381	.48	-

STATION 60.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°37'N 127°54.5'W April 8, 1950 0156 GCT Wire angle: 22°
Sounding: 2,420 fms. Depth of observation: 1,259 m. Weather: partly cloudy
Sea: high Wind: 270°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.70	33.01	24.73	322.4	.0000	5.98	-
10	13.70	32.97	24.70	325.5	.0325	5.78	-
20	13.70	33.02	24.74	322.1	.0650	5.83	-
30	13.71	33.02	24.74	321.8	.0974	5.86	-
50	13.72	32.99	24.72	325.2	.1624	5.74	-
75	13.75	33.06	24.76	321.5	.2437	5.71	-
100	13.25	33.19	24.96	302.9	.3222	5.67	-
150	10.79	33.34	25.54	248.4	.461	5.36	-
200	8.62	33.51	26.03	202.1	.574	4.65	-
250	7.55	33.79	26.41	166.7	.667	3.84	-
300	7.03	33.93	26.59	149.9	.747	3.26	-
400	5.78	33.99	26.81	130.3	.888	2.05	-
500	5.12	34.03	26.92	120.5	1.015	1.18	-
600	4.67	34.14	27.05	107.9	1.130	.67	-
700	4.37	34.23	27.16	98.6	1.234	.43	-
800	4.11	34.29	27.23	92.1	1.330	.35	-
1000	3.60	34.38	27.37	81.3	1.506	.49	-

STATION 60.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°17'N 128°37'W April 7, 1950 1803 GCT Wire angle: 10°
Sounding: 2,590 fms. Depth of observation: 1,248 m. Weather: partly cloudy
Sea: high Wind: 270°, force 6

0	13.84	33.04	24.73	323.0	.0000	5.36	-
10	13.84	33.04	24.73	323.3	.0324	5.36	-
20	13.85	33.04	24.73	323.6	.0649	5.29	-
30	13.86	33.04	24.73	323.9	.0974	5.26	-
50	13.89	33.04	24.72	324.9	.1626	5.16	-
75	14.01	33.14	24.77	321.0	.2438	4.78	-
100	11.70	32.96	25.08	291.2	.3208	4.66	-
150	10.45	33.36	25.62	241.4	.455	4.55	-
200	8.28	33.68	26.22	184.4	.562	4.31	-
250	7.57	33.83	26.44	163.9	.650	3.60	-
300	7.20	33.97	26.60	149.1	.729	2.30	-
400	6.37	34.07	26.79	132.0	.870	1.19	-
500	5.68	34.11	26.91	121.5	.998	.88	-
600	5.15	34.20	27.05	109.3	1.114	.52	-
700	4.74	34.27	27.15	100.0	1.220	.39	-
800	4.39	34.32	27.23	92.9	1.318	.39	-
1000	3.71	34.41	27.23	80.5	1.493	.43	-

STATION 61.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°37'N 123°07.5'W April 10, 1950 0228 GCT Wire angle: 10°
Sounding: 520 fms. Depth of observation: 800 m. Weather: partly cloudy
Sea: rough Wind: 310°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.87	33.03	25.29	269.7	.0000	5.36	-
10	10.82	33.03	25.30	269.0	.0270	5.68	-
20	10.35	33.05	25.39	260.0	.0536	5.55	-
30	9.94	33.21	25.59	241.8	.0788	5.26	-
50	9.01	33.51	25.97	205.7	.1238	3.79	-
75	8.52	33.76	26.24	180.1	.1723	2.79	-
100	8.30	33.86	26.36	169.7	.2163	2.52	-
150	7.76	33.96	26.51	155.4	.298	2.22	-
200	7.47	34.04	26.62	146.1	.374	1.88	-
250	7.25	34.07	26.68	141.6	.446	1.43	-
300	7.00	34.13	26.76	134.5	.516	1.24	-
400	6.24	34.15	26.87	124.3	.646	1.03	-
500	5.69	34.23	27.00	113.2	.766	.56	-
600	5.27	34.27	27.09	105.6	.876	.60	-
700	4.92	34.33	27.18	97.8	.979	.43	-
800	4.54	34.38	27.26	90.5	1.074	.38	-

STATION 65.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°45'N 123°00'W April 4, 1950 0728 GCT Wire angle: 32°
Sounding: 1,630 fms. Depth of observation: 1,082 m. Weather: clear
Sea: high Wind: 320°, force 5

0	10.81	32.83	25.14	283.4	.0000	6.14	-
10	10.80	32.84	25.15	282.9	.0284	5.98	-
20	10.80	32.84	25.15	283.1	.0568	5.89	-
30	10.80	32.84	25.15	283.2	.0853	5.93	-
50	10.82	32.84	25.15	283.8	.1423	5.94	-
75	9.65	33.32	25.72	229.9	.2068	4.15	-
100	9.28	33.67	26.05	198.6	.2607	3.31	-
150	8.53	33.96	26.40	166.7	.353	2.03	-
200	8.12	34.06	26.54	154.2	.433	1.75	-
250	7.66	34.12	26.65	143.8	.508	1.39	-
300	7.05	34.17	26.78	132.4	.578	1.07	-
400	6.17	34.22	26.94	118.1	.704	.84	-
500	5.64	34.24	27.02	111.4	.820	.68	-
600	5.14	34.34	27.16	98.9	.926	.44	-
700	4.66	34.39	27.25	90.2	1.022	.43	-
800	4.30	34.44	27.33	83.1	1.109	.44	-
1000	3.73	34.50	27.44	74.0	1.268	.62	-

STATION 70.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°04'N 122°03'W April 4, 1950 1723, 1815 GCT Wire angle: 7°, 9° Sounding: 800 fms. Depth of observation: 426, 1,048 m. Weather: partly cloudy Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	10.15	33.51	25.79	222.3	.0000	5.22	-
10	10.15	33.48	25.76	224.8	.0224	5.33	-
20	10.14	33.48	25.76	224.9	.0450	5.05	-
30	10.07	33.56	25.84	218.0	.0672	4.65	-
50	9.48	33.65	26.01	202.2	.1095	3.67	-
75	8.98	33.66	26.09	194.3	.1593	2.77	-
100	8.82	33.91	26.32	173.8	.2056	2.31	-
150	7.99	34.08	26.58	149.6	.287	1.92	-
200	7.43	34.06	26.64	144.1	.361	1.78	-
250	7.12	34.09	26.71	138.4	.432	1.45	-
300	6.86	34.18	26.81	129.0	.500	.92	-
400	6.12	34.24	26.96	116.2	.623	.54	-
500	5.57	34.29	27.07	106.7	.736	.55	-
600	5.10	34.33	27.16	99.1	.839	.38	-
700	4.67	34.38	27.24	91.0	.935	.33	-
800	4.30	34.41	27.31	85.5	1.025	.41	-
1000	3.75	34.46	27.40	77.2	1.189	.62	-

STATION 70.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°53'N 122°23'W April 4, 1950 2234 GCT Wire angle: 29° Sounding: 1,730 fms. Depth of observation: 1,054 m. Weather: overcast Sea: high Wind: 300°, force 4

0	11.38	33.35	25.45	254.6	.0000	6.34	-
10	11.20	33.37	25.49	250.3	.0254	6.34	-
20	10.55	33.36	25.60	240.4	.0500	6.10	-
30	10.12	33.37	25.68	232.9	.0737	5.10	-
50	9.56	33.56	25.92	210.2	.1183	4.05	-
75	8.85	33.64	26.10	193.9	.1691	3.55	-
100	8.64	33.77	26.23	181.6	.2163	2.90	-
150	8.35	33.94	26.41	165.4	.304	2.43	-
200	7.95	34.00	26.52	155.9	.385	2.10	-
250	7.35	34.12	26.70	139.3	.459	1.53	-
300	6.65	34.16	26.83	127.7	.526	1.20	-
400	6.11	34.17	26.91	121.1	.652	.84	-
500	5.75	34.24	27.00	112.8	.770	.54	-
600	5.27	34.31	27.12	102.7	.878	.53	-
700	4.82	34.39	27.23	92.3	.977	.57	-
800	4.43	34.46	27.34	83.3	1.065	.59	-
1000	3.74	34.51	27.45	73.3	1.224	.76	-

STATION 70.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°33'N 123°06'W April 4, 1950 0550 GCT Wire angle: 7°
Sounding: 2,075 fms. Depth of observation: 1,145 m. Weather: overcast
Sea: rough Wind: 260°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	12.19	32.94	24.98	299.1	.0000	5.98	-
10	12.16	32.95	24.99	298.1	.0300	5.89	-
20	12.13	32.95	24.99	298.0	.0599	5.95	-
30	12.10	32.95	25.00	297.7	.0898	6.04	-
50	12.10	32.95	25.00	298.1	.1497	6.12	-
75	10.70	33.02	25.31	269.0	.2210	5.76	-
100	9.44	33.26	25.71	231.6	.2839	4.56	-
150	8.50	33.82	26.29	176.6	.387	2.88	-
200	7.84	33.96	26.50	157.4	.471	2.46	-
250	7.38	34.03	26.63	146.3	.547	1.94	-
300	7.03	34.11	26.73	136.6	.619	1.44	-
400	6.49	34.23	26.90	121.6	.749	.71	-
500	5.96	34.27	27.00	113.1	.867	.48	-
600	5.28	34.33	27.13	101.3	.975	.40	-
700	4.68	34.35	27.22	93.3	1.073	.35	-
800	4.34	34.37	27.27	88.9	1.165	.38	-
1000	3.85	34.45	27.39	79.1	1.335	.62	-

STATION 70.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°13'N 123°48'W April 5, 1950 1301 GCT Wire angle: 0°
Sounding: 2,210 fms. Depth of observation: 1,198 m. Weather: clear
Sea: rough Wind: 250°, force 1

0	12.60	33.09	25.01	295.6	.0000	5.87	-
10	12.63	33.09	25.01	296.3	.0297	6.08	-
20	12.60	33.08	25.00	296.8	.0595	6.10	-
30	12.59	33.08	25.01	296.9	.0893	6.08	-
50	12.20	33.17	25.15	283.5	.1476	5.93	-
75	11.35	33.27	25.39	261.7	.2161	5.52	-
100	10.06	33.44	25.74	228.1	.2778	4.25	-
150	8.82	33.76	26.20	185.8	.382	3.09	-
200	8.13	33.95	26.45	162.3	.470	2.73	-
250	7.49	33.99	26.58	150.7	.548	2.39	-
300	6.87	34.00	26.67	142.5	.622	2.01	-
400	5.98	34.07	26.84	126.9	.758	1.14	-
500	5.63	34.18	26.97	115.8	.881	.58	-
600	5.09	34.23	27.08	106.3	.993	.42	-
700	4.72	34.30	27.18	97.5	1.095	.39	-
800	4.40	34.36	27.26	90.2	1.190	.41	-
1000	3.81	34.43	27.37	80.2	1.363	.66	-

STATION 70.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°53'N 124°30'W April 5, 1950 1928 GCT Wire angle: 5°
Sounding: 2,340 fms. Depth of observation: 1,193 m. Weather: partly cloudy
Sea: moderate Wind: 200°, force 1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 s$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.15	33.15	24.95	301.4	.0000	6.01	-
10	12.75	33.13	25.02	295.6	.0300	5.93	-
20	12.55	33.10	25.03	294.4	.0596	5.98	-
30	12.25	33.09	25.08	289.9	.0889	5.99	-
50	11.05	33.10	25.31	268.5	.1450	5.93	-
75	10.68	33.28	25.52	249.5	.2102	5.40	-
100	10.22	33.45	25.73	229.9	.2705	4.70	-
150	8.95	33.78	26.19	186.3	.375	3.51	-
200	7.87	33.89	26.44	162.9	.463	3.00	-
250	7.32	33.96	26.58	151.1	.542	2.54	-
300	6.91	34.01	26.67	142.4	.616	2.01	-
400	6.30	34.15	26.87	125.2	.751	.82	-
500	5.62	34.20	26.99	114.1	.872	.48	-
600	5.23	34.31	27.12	102.3	.981	.36	-
700	4.78	34.34	27.20	95.4	1.081	.35	-
800	4.39	34.35	27.25	90.7	1.175	.38	-
1000	3.73	34.43	27.38	79.2	1.347	.54	-

STATION 70.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°33'N 125°12'W April 6, 1950 0132, 0209 GCT Wire angle: 5°, 11° Sounding: 2,500 fms. Depth of observation: 293, 1,189 m. Weather: overcast Sea: slight Wind: 200°, force 2

0	14.30	33.08	24.66	329.1	.0000	-	-
10	14.27	33.08	24.67	328.9	.0330	-	-
20	14.13	33.08	24.70	326.3	.0659	-	-
30	14.04	33.08	24.72	324.8	.0986	-	-
50	13.97	33.10	24.75	322.2	.1636	-	-
75	12.58	32.88	24.86	312.3	.2434	-	-
100	11.24	33.00	25.20	280.3	.3179	-	-
150	9.40	33.48	25.88	215.5	.443	-	-
200	8.42	33.80	26.29	177.7	.542	-	-
250	7.70	33.91	26.48	159.9	.627	-	-
300	7.17	34.00	26.63	146.4	.704	-	-
400	6.39	34.14	26.85	127.0	.842	-	-
500	5.82	34.20	26.96	116.7	.965	-	-
600	5.00	34.22	27.08	106.0	1.077	-	-
700	4.63	34.30	27.18	96.6	1.179	-	-
800	4.31	34.38	27.28	87.9	1.273	-	-
1000	3.70	34.42	27.38	79.5	1.442	-	-

STATION 70.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 34°13'N 125°54'W April 6, 1950 0833 GCT Wire angle: 10°
Sounding: 2,000 fms. Depth of observation: 1,171 m. Weather: drizzle
Sea: moderate Wind: 280°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	14.55	33.08	24.61	334.0	.0000	5.88	-
10	14.52	33.10	24.63	333.2	.0335	5.83	-
20	14.40	33.08	24.64	331.6	.0669	5.84	-
30	14.34	33.08	24.65	330.8	.1001	5.83	-
50	14.28	33.10	24.68	328.5	.1664	5.77	-
75	13.56	33.07	24.81	317.0	.2475	5.93	-
100	12.78	32.97	24.89	310.1	.3264	5.87	-
150	10.28	33.12	25.46	256.2	.469	5.25	-
200	9.14	33.62	26.04	202.0	.584	3.64	-
250	8.34	33.89	26.37	170.6	.678	2.92	-
300	7.59	34.01	26.58	151.6	.759	2.45	-
400	6.39	34.04	26.77	134.3	.903	1.65	-
500	5.61	34.08	26.90	122.9	1.033	.95	-
600	4.96	34.19	27.06	107.6	1.149	.59	-
700	4.67	34.28	27.17	98.5	1.253	.42	-
800	4.39	34.36	27.26	90.0	1.349	.37	-
1000	3.83	34.44	27.38	79.6	1.520	.58	-

STATION 70.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°53'N 126°35.5'W April 6, 1950 1537 GCT Wire angle: 25°
Sounding: 2,960 fms. Depth of observation: 1,198 m. Weather: overcast
Sea: rough Wind: 300°, force 3

0	14.45	33.02	24.59	336.4	.0000	5.05	-
10	14.51	33.03	24.58	337.3	.0338	5.05	-
20	14.54	33.03	24.57	338.1	.0677	4.95	-
30	14.50	33.03	24.58	337.4	.1016	4.92	-
50	14.37	33.04	24.62	334.7	.1692	4.90	-
75	14.11	33.10	24.72	325.9	.2522	4.43	-
100	12.81	32.96	24.87	311.6	.3324	5.04	-
150	10.03	33.23	25.59	244.1	.472	4.33	-
200	8.85	33.53	26.01	204.2	.585	3.82	-
250	8.28	33.81	26.32	175.8	.681	2.80	-
300	7.89	34.02	26.54	155.2	.764	1.94	-
400	7.11	34.11	26.72	139.2	.913	1.03	-
500	6.12	34.13	26.87	125.7	1.046	1.00	-
600	5.29	34.19	27.02	111.7	1.166	.48	-
700	4.82	34.25	27.12	102.5	1.274	.47	-
800	4.48	34.30	27.20	95.7	1.374	.48	-
1000	3.94	34.40	27.34	83.9	1.556	.51	-

STATION 70.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 33°33'N 127°16.5'W April 6, 1950 2139 GCT Wire angle: 6°
Sounding: 2,420 fms. Depth of observation. 1,264 m. Weather: cloudy
Sea: very rough Wind: 290°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn. m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	15.26	33.18	24.53	341.4	.0000	5.75	-
10	15.19	33.17	24.54	340.9	.0343	5.68	-
20	15.16	33.20	24.57	338.3	.0684	5.72	-
30	15.10	33.21	24.59	336.6	.1022	5.80	-
50	14.58	33.18	24.68	328.7	.1691	5.83	-
75	13.29	33.03	24.83	314.7	.2500	5.94	-
100	11.85	33.09	25.16	284.2	.3253	5.82	-
150	9.62	33.48	25.85	219.0	.452	4.42	-
200	8.78	33.81	26.24	181.9	.553	4.16	-
250	8.10	33.90	26.42	166.3	.641	3.90	-
300	7.34	33.93	26.55	154.0	.721	3.37	-
400	5.88	34.00	26.80	130.8	.865	1.85	-
500	5.46	34.10	26.93	119.6	.991	.82	-
600	4.90	34.19	27.07	107.0	1.105	.44	-
700	4.38	34.25	27.17	97.3	1.208	.40	-
800	4.09	34.31	27.25	90.2	1.303	.41	-
1000	3.74	34.40	27.36	81.6	1.477	.63	-

STATION 80.55 (Interpolated Values at Standard Depths)

HORIZON: 34°21'N 120°50'W April 4, 1950 1821 GCT Wire angle: 22°
Sounding: 395 fms. Depth of observation: 591 m. Weather: partly cloudy
Sea: very rough Wind: 320°, force 4

0	10.13	33.80	26.01	200.5	.0000	4.65	-
10	10.05	33.77	26.00	201.8	.0202	3.93	-
20	10.00	33.77	26.01	201.1	.0404	4.23	-
30	9.94	33.78	26.03	199.5	.0605	4.21	-
50	9.85	33.81	26.07	196.4	.1003	4.02	1.83
75	9.32	33.83	26.17	187.0	.1485	3.32	1.98
100	8.93	33.84	26.24	180.8	.1943	2.47	2.04
150	8.47	33.88	26.35	171.7	.284	2.32	2.09
200	7.77	34.05	26.58	149.7	.364	1.96	2.30
250	7.32	34.14	26.72	137.5	.437	1.48	2.52
300	6.88	34.15	26.79	131.5	.505	1.02	2.62
400	6.25	34.22	26.93	119.3	.631	0.62	2.67
500	5.76	34.30	27.05	108.4	.746	0.67	2.76

STATION 80.60 (Interpolated Values at Standard Depths)

HORIZON: 34°09'N 121°09'W April 4, 1950 2145 GCT Wire angle: 39°
Sounding: 1,360 fms. Depth of observation: 923 m. Weather: cloudy
Sea: very rough Wind: 320°, force 3-4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	12.18	33.44	25.37	262.2	.0000	5.68	.76
10	12.15	33.40	25.34	264.9	.0265	5.23	.80
20	12.12	33.40	25.34	264.7	.0531	5.17	.74
30	12.10	33.40	25.35	264.6	.0796	5.18	.75
50	12.03	33.39	25.35	264.5	.1328	5.22	.81
75	11.07	33.40	25.54	247.4	.1971	4.91	.97
100	10.17	33.52	25.79	223.9	.2564	4.72	1.34
150	9.01	33.90	26.28	178.3	.358	2.29	2.01
200	8.00	34.04	26.54	153.6	.441	1.96	2.21
250	7.00	34.08	26.72	137.5	.515	1.75	2.30
300	6.59	34.13	26.81	129.0	.582	1.07	2.50
400	6.00	34.24	26.97	114.6	.704	0.41	2.88
500	5.62	34.25	27.03	110.3	.818	0.36	2.95
600	5.31	34.24	27.06	108.5	.928	0.43	3.02
700	4.92	34.34	27.18	97.1	1.032	0.60	3.03
800	4.55	34.44	27.31	86.2	1.125	0.88	3.04
1000	(3.98)	(34.48)	(27.40)	(78.3)	(1.291)	(1.76)	(3.08)

STATION 80.70 (Interpolated Values at Standard Depths)

HORIZON: 33°49'N 121°51'W April 5, 1950 1409 GCT Wire angle: 19°
Sounding: 2,025 fms. Depth of observation: 1,195 m. Weather: overcast
Sea: very rough Wind: 320°, force 4

0	12.50	33.35	25.23	274.7	.0000	5.87	.67
10	12.54	33.31	25.19	278.8	.0278	5.87	.62
20	12.42	33.32	25.22	276.1	.0557	6.02	.64
30	12.24	33.36	25.29	269.9	.0831	6.01	.67
50	11.69	33.42	25.44	256.1	.1359	5.96	.76
75	10.23	33.47	25.74	228.1	.1968	5.05	1.22
100	9.57	33.61	25.96	207.7	.2516	3.54	1.66
150	8.33	34.00	26.46	160.7	.344	2.55	2.00
200	7.74	33.93	26.49	158.1	.425	2.19	2.17
250	7.23	34.02	26.64	145.2	.501	1.77	2.32
300	6.78	34.12	26.78	132.4	.571	1.23	2.48
400	6.26	34.26	26.96	116.4	.696	0.56	2.74
500	5.67	34.33	27.09	105.1	.808	0.43	2.93
600	5.14	34.33	27.15	99.7	.911	0.33	2.94
700	4.72	34.38	27.24	91.7	1.008	0.33	2.94
800	4.35	34.43	27.32	84.5	1.097	0.41	2.96
1000	3.79	34.47	27.41	76.8	1.260	0.61	3.02

STATION 80.80 (Interpolated Values at Standard Depths)

HORIZON: 33°30'N 122°37'W April 5, 1950 1012 GCT Wire angle: 17°
Sounding: 2,080 fms. Depth of observation: 1,227 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	12.32	33.42	25.32	266.2	.0000	6.12	.72
10	12.32	33.37	25.29	269.9	.0269	6.11	.76
20	12.23	33.37	25.30	268.7	.0540	6.09	.77
30	12.05	33.37	25.33	265.9	.0808	6.03	.78
50	11.94	33.42	25.39	260.5	.1337	5.86	.78
75	9.93	33.37	25.71	230.6	.1954	5.04	.84
100	9.37	33.54	25.94	209.8	.2508	3.78	1.62
150	8.64	33.87	26.31	174.9	.348	2.85	1.97
200	7.87	34.00	26.53	154.7	.431	2.30	2.21
250	7.19	34.04	26.66	142.8	.506	1.96	2.39
300	6.67	34.07	26.75	134.6	.575	1.58	2.51
400	6.08	34.20	26.93	118.5	.703	0.69	2.83
500	5.63	34.26	27.04	109.8	.818	0.42	2.94
600	5.05	34.33	27.16	98.4	.923	0.35	2.94
700	4.62	34.37	27.24	91.3	1.019	0.36	2.95
800	4.29	34.40	27.30	86.1	1.109	0.45	2.96
1000	3.79	34.42	27.37	80.5	1.277	0.62	3.01

STATION 80.90 (Interpolated Values at Standard Depths)

HORIZON: 33°09'N 123°13'W April 5, 1950 1625 GCT Wire angle: 14°
Sounding: 2,470 fms. Depth of observation: 1,183 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 2

0	12.80	33.26	25.11	286.9	.0000	5.81	.60
10	12.80	33.26	25.11	287.0	.0288	5.96	.51
20	12.78	33.26	25.11	287.1	.0576	6.02	.58
30	12.76	33.26	25.11	286.9	.0864	6.03	.62
50	11.87	33.26	25.29	270.9	.1425	6.02	.59
75	11.20	33.52	25.61	240.8	.2068	5.60	1.00
100	9.49	33.56	25.94	209.9	.2635	3.68	1.72
150	8.65	33.82	26.27	178.7	.361	2.81	1.96
200	8.07	34.01	26.51	156.9	.446	2.53	2.03
250	7.44	34.07	26.65	144.4	.522	2.01	2.21
300	6.92	34.12	26.76	134.4	.592	1.29	2.55
400	6.23	34.18	26.90	122.1	.721	0.81	2.77
500	5.58	34.26	27.04	109.0	.838	0.58	3.04
600	5.22	34.38	27.18	96.9	.942	0.36	3.02
700	4.70	34.40	27.26	89.9	1.036	0.37	3.05
800	4.31	34.40	27.30	86.3	1.125	0.46	3.06
1000	3.75	34.47	27.41	76.4	1.289	0.63	3.03

STATION 80.100 (Interpolated Values at Standard Depths)

HORIZON: 32°49'N 123°54'W April 5, 1950 2238 GCT Wire angle: 5°
Sounding: 2,020 fms. Depth of observation: 1,209 m. Weather: partly cloudy
Sea: moderate Wind: 270°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	14.98	33.08	24.52	342.9	.0000	5.36	.54
10	13.91	33.12	24.78	318.6	.0332	5.54	.53
20	13.80	33.18	24.84	312.5	.0649	5.66	.55
30	13.73	33.18	24.86	311.4	0962	5.72	.59
50	11.75	33.15	25.22	276.9	.1553	5.75	.76
75	10.65	33.20	25.46	255.0	.2222	5.20	1.02
100	10.12	33.44	25.73	229.1	.2831	4.39	1.33
150	8.64	33.76	26.23	183.1	.387	2.89	2.01
200	8.05	34.03	26.53	155.2	.472	2.17	2.31
250	7.59	34.09	26.64	144.8	.548	1.70	2.48
300	7.15	34.11	26.72	138.1	.619	1.36	2.63
400	5.98	34.11	26.88	123.9	.751	1.08	2.84
500	5.11	34.16	27.02	110.8	.869	0.79	2.95
600	4.68	34.24	27.13	100.6	.976	0.49	3.01
700	4.36	34.32	27.23	91.8	1.073	0.43	3.06
800	4.09	34.38	27.31	85.1	1.162	0.42	3.09
1000	3.65	34.49	27.44	73.8	1.323	0.64	3.20

STATION 80.110 (Interpolated Values at Standard Depths)

HORIZON: 32°29'N 124°34.5'W April 6, 1950 0451 GCT Wire angle: 17°
Sounding: 2,080 fms. Depth of observation: 1,147 m. Weather: cloudy
Sea: moderate Wind: 270°, force 2

0	14.27	32.99	24.60	335.1	.0000	5.82	.53
10	13.82	32.97	24.68	327.7	.0333	5.78	.49
20	13.70	32.97	24.70	325.8	.0661	5.77	.51
30	13.59	32.97	24.72	324.0	.0987	5.76	.53
50	13.22	32.97	24.80	317.3	.1632	5.67	.54
75	12.17	33.07	25.08	290.9	.2396	5.93	.68
100	10.85	33.13	25.37	264.0	.3094	6.07	.88
150	9.15	33.50	25.94	210.1	.429	3.87	1.82
200	8.31	33.85	26.35	172.4	.525	2.96	2.07
250	7.77	34.01	26.55	153.4	.607	2.27	2.32
300	7.16	34.08	26.70	140.4	.681	1.74	2.54
400	6.07	34.12	26.87	124.3	.814	1.07	2.90
500	5.43	34.22	27.03	110.2	.933	0.59	3.05
600	4.72	34.29	27.17	97.4	1.037	0.43	3.03
700	4.50	34.34	27.23	92.0	1.133	0.37	3.14
800	4.19	34.37	27.29	87.0	1.223	0.39	3.19
1000	3.57	34.43	27.40	77.3	1.390	0.61	3.14

STATION 80.120 (Interpolated Values at Standard Depths)

HORIZON: 32°08'N 125°16'W April 6, 1950 1104 GCT Wire angle: 16°
Sounding: 2,560 fms. Depth of observation: 1,152 m. Weather: partly cloudy
Sea: moderate Wind: 270°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.30	33.22	24.56	339.3	.0000	5.08	.44
10	15.30	33.31	24.62	333.0	.0338	5.13	.46
20	15.30	33.34	24.65	331.0	.0671	4.83	.46
30	15.31	33.39	24.68	327.8	.1002	4.77	.44
50	16.39	33.84	24.79	318.5	.1651	4.87	.34
75	16.40	33.84	24.79	319.6	.2453	5.07	.36
100	15.41	33.91	25.06	293.9	.3225	4.88	.37
150	13.05	33.91	25.56	247.5	.459	4.71	.69
200	10.05	33.82	26.04	201.7	.572	4.63	1.20
250	8.81	33.90	26.31	177.0	.667	4.32	1.51
300	7.80	33.97	26.52	157.6	.752	3.27	1.70
400	6.29	34.03	26.77	133.8	.898	1.88	2.28
500	5.45	34.09	26.92	120.1	1.026	1.08	2.95
600	5.00	34.17	27.04	109.8	1.142	0.74	3.01
700	4.62	34.28	27.17	98.1	1.247	0.49	3.09
800	4.30	34.37	27.28	87.6	1.341	0.36	3.15
1000	3.75	34.46	27.40	77.1	1.508	0.36	3.15

STATION 80.130 (Interpolated Values at Standard Depths)

HORIZON: 31°49.5'N 125°58'W April 6, 1950 1717 GCT Wire angle: 23°
Sounding: 2,450 fms. Depth of observatin: 2,350 m. Weather: squally
Sea: moderate Wind: 200°, force 3

0	15.61	33.40	24.63	332.6	.0000	5.13	.35
10	15.61	33.42	24.64	331.4	.0333	5.33	.36
20	15.55	33.45	24.68	328.1	.0664	4.89	.36
30	15.54	33.46	24.69	327.5	.0994	4.87	.37
50	15.56	33.44	24.67	330.1	.1654	4.88	.38
75	15.60	33.54	24.73	324.3	.2477	4.95	.36
100	13.90	33.57	25.12	287.8	.3247	4.89	.36
150	11.25	33.44	25.54	249.0	.460	4.89	.80
200	9.58	33.73	26.05	200.7	.573	3.71	1.35
250	8.64	33.95	26.37	170.8	.667	3.03	1.75
300	7.73	34.01	26.56	153.8	.748	2.64	2.09
400	6.29	34.05	26.79	132.4	.893	1.41	2.67
500	5.78	34.19	26.96	116.8	1.018	0.62	2.93
600	5.35	34.30	27.10	104.5	1.130	0.34	3.01
700	4.88	34.32	27.17	98.1	1.232	0.31	3.06
800	4.50	34.37	27.26	90.7	1.328	0.35	3.09
1000	3.88	34.47	27.40	78.0	1.498	0.61	3.16

STATION 83.55 (Interpolated Values at Standard Depths)

HORIZON: 33°42'N 120°24'W April 12, 1950 1310 GCT Wire angle: 49°
Sounding: 500 fms. Depth of observation: 552 m. Weather: clear
Sea: very rough Wind: 310°, force 8

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	11.49	33.69	25.69	231.5	.0000	5.68	1.29
10	11.51	33.66	25.66	234.4	.0234	5.83	1.22
20	11.45	33.67	25.68	232.8	.0468	5.93	1.23
30	11.40	33.66	25.68	232.9	.0702	5.89	1.27
50	10.54	33.62	25.80	221.6	.1159	4.44	1.57
75	9.53	33.66	26.00	202.9	.1693	3.69	1.80
100	9.03	33.78	26.18	186.6	.2183	3.25	1.95
150	8.37	33.91	26.38	167.9	.307	2.91	2.11
200	7.66	34.02	26.58	150.3	.388	3.02	2.11
250	6.92	34.05	26.70	138.9	.460	2.74	2.17
300	6.47	34.05	26.77	133.3	.529	2.07	2.39
400	6.14	34.11	26.85	126.1	.660	.96	2.92
500	5.80	34.31	27.05	108.3	.778	.59	3.14

STATION 83.60 (Interpolated Values at Standard Depths)

HORIZON: 33°34'N 120°45'W April 12, 1950 0909 GCT Wire angle: 44°
Sounding: 1,275 fms. Depth of observation: 1,002 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 6

0	12.35	33.42	25.32	266.9	.0000	5.11	.88
10	12.35	33.37	25.28	270.8	.0270	5.17	.90
20	12.33	33.40	25.30	268.5	.0541	5.15	.92
30	12.29	33.42	25.33	266.3	.0809	5.08	.96
50	11.53	33.47	25.51	249.6	.1328	4.88	1.10
75	10.25	33.51	25.77	225.5	.1925	4.61	1.50
100	9.37	33.56	25.95	208.2	.2470	3.36	1.87
150	8.47	33.86	26.33	173.1	.343	2.71	2.23
200	7.94	33.97	26.50	158.0	.426	2.14	2.47
250	7.40	34.01	26.61	148.0	.504	1.79	2.66
300	6.68	34.01	26.71	139.0	.576	1.67	2.75
400	5.60	34.08	26.90	121.5	.707	1.10	2.95
500	5.27	34.23	27.06	107.5	.823	.46	3.21
600	4.92	34.32	27.17	97.8	.926	.34	3.30
700	4.62	34.38	27.25	90.6	1.021	.35	3.34
800	4.35	34.43	27.32	84.5	1.110	.40	3:34
1000	3.87	34.45	27.38	79.3	1.275	.61	3.29

STATION 83.70 (Interpolated Values at Standard Depths)

HORIZON: 33°13'N 121°24'W April 12, 1950 0256 GCT Wire angle: 44°
Sounding: 2,300 fms. Depth of observation: 932 m. Weather: clear
Sea: rough Wind: 320°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.45	33.28	24.99	297.8	.0000	5.76	.45
10	13.48	33.28	24.99	298.6	.0299	5.90	.52
20	13.50	33.28	24.98	299.1	.0599	5.90	.46
30	13.48	33.28	24.99	299.2	.0900	5.86	.46
50	13.35	33.28	25.01	297.1	.1499	5.80	.48
75	12.43	33.28	25.19	280.5	.2225	5.74	.66
100	11.15	33.32	25.46	255.1	.2899	5.14	1.14
150	9.05	33.72	26.13	192.2	.402	3.43	1.94
200	7.86	33.94	26.49	159.0	.491	2.86	2.24
250	7.38	34.05	26.64	144.8	.567	2.13	2.50
300	7.08	34.09	26.71	138.6	.639	1.30	2.88
400	6.10	34.11	26.86	125.4	.772	.90	2.94
500	5.37	34.19	27.01	111.7	.891	.64	3.18
600	4.86	34.23	27.10	103.6	1.000	.44	3.24
700	4.57	34.30	27.19	95.7	1.101	32	3.38
800	4.28	34.38	27.29	87.4	1.193	.36	3.46
1000	(3.78)	(34.46)	(27.40)	(77.5)	(1.360)	-	-

STATION 83.80 (Interpolated Values at Standard Depths)

HORIZON: 32°56'N 122°05'W April 11, 1950 2043 GCT Wire angle: 36°
Sounding: 2,500 fms. Depth of observation: 1,161 m. Weather: partly cloudy
Sea: rough Wind: 290°, force 5

0	14.15	33.24	24.82	314.3	.0000	5.11	.51
10	14.15	33.21	24.79	316.9	.0317	5.09	.46
20	14.10	33.21	24.80	316.1	.0635	5.08	.46
30	13.98	33.22	24.84	313.4	.0951	5.09	.49
50	11.95	33.25	25.26	273.1	.1540	5.14	.74
75	10.97	33.30	25.48	253.0	.2201	4.76	1.14
100	9.95	33.40	25.73	229.1	.2808	4.04	1.59
150	8.83	33.72	26.16	188.9	.386	3.13	2.06
200	8.12	33.94	26.45	162.9	.475	2.62	2.28
250	7.46	34.02	26.61	148.3	.553	2.19	2.47
300	6.93	34.05	26.70	139.8	.626	1.78	2.71
400	5.98	34.06	26.84	127.7	.760	1.05	3.14
500	5.23	34.20	27.04	109.2	880	.62	3.30
600	4.77	34.23	27.11	102.5	987	.44	3.34
700	4.59	34.31	27.20	95.2	1.087	.41	3.34
800	4.32	34.40	27.30	86.4	1.178	.44	3.35
1000	3.73	34.48	27.42	75.5	1.342	.57	3.36

STATION 83.90 (Interpolated Values at Standard Depths)

HORIZON: 32°29'N 122°46.5'W April 11, 1950 1430, 1456 GCT Wire angle: 18°, 22° Sounding: 2,410 fms. Depth of observation: 152, 1,179 m. Weather: : partly cloudy Sea: rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	14.20	33.11	24.71	324.8	.0000	5.31	.44
10	14.23	33.15	24.73	322.9	.0325	5.69	.45
20	14.22	33.13	24.72	324.3	.0650	5.57	.46
30	14.18	33.11	24.71	325.3	.0976	5.56	.48
50	13.05	33.04	24.89	308.9	.1614	5.78	.56
75	11.97	33.19	25.21	278.6	.2352	5.71	.67
100	10.97	33.22	25.42	259.4	.3029	5.45	.96
150	9.20	33.64	26.04	200.7	.419	4.42	1.54
200	8.57	33.87	26.32	174.6	.513	2.65	2.23
250	7.32	33.94	26.56	152.2	.595	2.64	2.31
300	6.77	33.97	26.66	143.4	.670	2.63	2.35
400	6.14	34.17	26.90	121.6	.804	.94	3.10
500	5.50	34.22	27.02	111.0	.921	.59	3.21
600	5.00	34.26	27.11	102.9	1.029	.39	3.20
700	4.64	34.32	27.20	95.1	1.129	.38	3.28
800	4.28	34.39	27.30	86.6	1.221	.40	3.35
1000	3.71	34.43	27.38	79.0	1.388	.64	3.23

STATION 87.35 (Interpolated Values at Standard Depths)

HORIZON: 33°50'N 118°37'W April 9, 1950 2341 GCT Wire angle: 24° Sounding: 260 fms. Depth of observation: 334 m. Weather: partly cloudy Sea: moderate Wind: 270°, force 5

0	14.02	33.57	25.10	287.6	.0000	6.50	.44
10	13.34	33.55	25.22	276.2	.0283	6.21	.58
20	12.98	33.56	25.30	268.8	.0557	5.97	.68
30	12.00	33.61	25.53	247.2	.0816	4.88	.90
50	10.09	33.72	25.96	206.7	.1272	3.34	1.80
75	9.32	33.84	26.18	186.2	.1766	2.80	2.02
100	8.95	33.95	26.33	172.8	.2217	2.49	2.23
150	8.52	34.09	26.50	156.8	.305	1.92	2.46
200	8.36	34.15	26.57	150.8	.382	1.56	2.54
250	8.17	34.18	26.63	146.8	.457	1.41	2.65
300	7.83	34.17	26.67	143.4	.530	-	2.79

STATION 87.40 (Interpolated Values at Standard Depths)

HORIZON: 33°40'N 118°58'W April 10, 1950 0338 GCT Wire angle: 9°
Sounding: 550 fms. Depth of observation: 703 m. Weather: partly cloudy
Sea: very rough Wind: 300°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	13.82	33.55	25.12	285.1	.0000	5.42	.50
10	13.85	33.57	25.13	284.6	.0286	5.97	.46
20	13.85	33.61	25.16	281.9	.0570	5.80	.66
30	11.62	33.63	25.62	239.0	.0832	5.30	.99
50	10.43	33.64	25.84	218.4	.1292	3.72	1.51
75	9.74	33.73	26.02	201.1	.1819	3.00	1.78
100	9.18	33.90	26.25	180.1	.2298	2.51	2.12
150	8.57	34.10	26.50	156.9	.315	1.90	2.42
200	7.98	34.14	26.62	145.9	.391	1.31	2.69
250	7.58	34.17	26.70	139.0	.463	1.06	2.74
300	7.27	34.23	26.80	130.8	.531	.80	2.83
400	6.62	34.29	26.93	119.1	.656	.44	3.11
500	5.90	34.33	27.06	107.9	.771	.32	3.23
600	5.55	34.33	27.10	104.8	.878	.29	3.30
700	5.22	34.40	27.20	96.5	.980	.37	3.31

STATION 87.60 (Interpolated Values at Standard Depths)

HORIZON: 32°55'N 120°22'W April 10, 1950 1340 GCT Wire angle: 34°
Sounding: 500 fms. Depth of observation: 576 m. Weather: partly cloudy
Sea: very rough Wind: 270°, force 4

0	12.75	33.34	25.18	280.1	.0000	5.85	-
10	12.81	33.35	25.17	280.8	.0282	6.11	-
20	12.80	33.33	25.16	282.3	.0564	5.96	-
30	12.79	33.33	25.16	282.2	.0848	6.02	-
50	12.50	33.35	25.23	275.9	.1409	5.05	-
75	11.62	33.41	25.45	256.2	.2077	5.49	-
100	10.87	33.49	25.64	237.9	.2699	5.07	-
150	9.33	33.61	26.00	204.7	.381	4.04	-
200	8.40	33.94	26.40	166.9	.475	3.22	-
250	7.63	34.02	26.58	150.9	.555	2.39	-
300	7.05	34.01	26.65	144.2	.629	2.17	-
400	5.76	34.14	26.93	119.1	.762	1.02	-
500	5.63	34.27	27.04	109.1	.877	.56	-

STATION 87.70 (Interpolated Values at Standard Depths)

HORIZON: 32°39'N 121°06'W April 10, 1950 1953 GCT Wire angle: 8°
Sounding: 2,030 fms. Depth of observation: 1,280 m. Weather: 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 (µg at/L)
0	14.84	33.39	24.79	317.3	.0000	4.79	.46
10	14.70	33.33	24.77	319.1	.0320	5.05	.44
20	14.60	33.29	24.76	320.3	.0641	5.08	.45
30	13.97	33.27	24.88	309.5	.0957	5.14	.47
50	13.22	33.25	25.02	296.7	.1566	5.26	.59
75	11.75	33.29	25.33	267.3	.2275	5.28	.72
100	10.77	33.39	25.58	243.5	.2917	4.90	1.00
150	9.32	33.63	26.02	203.1	.404	3.44	1.60
200	8.35	33.88	26.36	170.7	.498	2.79	2.15
250	7.66	34.03	26.58	150.5	.579	2.11	2.47
300	7.07	34.06	26.69	140.6	.652	1.59	2.67
400	6.29	34.11	26.84	128.0	.788	.97	2.97
500	5.37	34.22	27.04	109.5	.908	.66	3.18
600	5.10	34.26	27.10	104.3	1.016	.36	3.23
700	4.88	34.40	27.24	92.1	1.115	.31	3.26
800	4.50	34.42	27.30	86.8	1.205	.43	3.27
1000	3.86	34.44	27.38	80.0	1.374	.51	3.21

STATION 87.80 (Interpolated Values at Standard Depths)

HORIZON: 32°18.5'N 121°41'W April 11, 1950 0206 GCT Wire angle: 43°
Sounding: 2,420 fms. Depth of observation: 960 m. Weather: partly cloudy
Sea: very rough Wind: 270°, force 3

0	14.15	33.26	24.83	312.9	.0000	5.61	.48
10	14.20	33.24	24.81	315.7	.0316	5.60	.43
20	14.14	33.26	24.83	313.5	.0632	5.68	.45
30	14.03	33.26	24.86	311.5	.0945	5.59	.43
50	13.75	33.23	24.89	308.4	.1568	5.63	.50
75	12.11	33.25	25.23	276.8	.2304	5.81	.69
100	11.05	33.30	25.46	254.9	.2973	5.50	.93
150	9.31	33.65	26.03	201.6	.412	3.43	1.87
200	8.33	33.89	26.37	169.7	.506	2.69	2.13
250	7.74	34.01	26.56	153.1	.587	2.26	2.27
300	7.27	34.04	26.65	144.8	.662	1.92	2.44
400	6.16	34.10	26.84	127.0	.799	1.04	2.83
500	5.51	34.17	26.98	115.0	.921	.54	3.04
600	5.03	34.25	27.10	104.3	1.032	.39	3.12
700	4.65	34.35	27.22	93.0	1.131	.35	3.22
800	4.33	34.45	27.34	82.9	1.220	.37	3.26
1000	(3.72)	(34.45)	(27.40)	(77.6)	(1.382)	(.58)	(3.26)

STATION 87.90 (Interpolated Values at Standard Depths)

HORIZON: 31°54.5'N 122°22'W April 11, 1950 0828, 0852 GCT Wire angle: 30°, 30° Sounding: 2,475 fms. Depth of observation: 67 m., 899 m. Weather: partly cloudy Sea: very rough 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 (µg at/L)
0	15.25	33.38	24.69	326.5	.0000	5.19	.38
10	15.31	33.37	24.67	328.9	.0329	5.18	.45
20	15.31	33.34	24.65	331.2	.0660	5.16	.47
30	15.34	33.35	24.65	331.4	.0993	5.11	.47
50	15.46	33.50	24.74	323.5	.1651	5.04	.45
75	15.36	33.54	24.79	319.2	.2459	5.26	.44
100	15.41	33.76	24.95	304.9	.3244	5.17	.47
150	12.20	33.88	25.70	233.6	.460	5.09	.63
200	9.68	33.94	26.20	186.7	.566	4.39	1.34
250	8.63	33.98	26.40	168.4	.655	4.04	1.59
300	8.10	34.02	26.51	158.2	.737	2.77	2.04
400	6.67	34.09	26.77	134.4	.885	1.28	2.77
500	5.72	34.17	26.95	117.6	1.012	.69	3.03
600	5.22	34.25	27.08	106.6	1.125	.43	3.24
700	4.79	34.31	27.18	97.7	1.228	.31	3.48
800	4.39	34.38	27.28	88.6	1.322	.36	3.56
1000	(3.70)	(34.47)	(27.42)	(75.9)	(1.489)	-	-

STATION 90.30 (Interpolated Values at Standard Depths)

HORIZON: 33°24'N 117°55'W April 9, 1950 1830 GCT Wire angle: 11° Sounding: 370 fms. Depth of observation: 398 m. Weather. partly cloudy Sea: rough Wind: 320°, force 1

0	14.00	33.48	25.03	293.9	.0000	5.65	.49
10	13.87	33.48	25.06	291.5	.0294	5.69	.47
20	13.87	33.48	25.06	291.7	.0587	5.89	.50
30	13.75	33.48	25.08	289.8	.0879	5.88	.62
50	10.97	33.44	25.59	241.9	.1413	4.87	1.21
75	10.05	33.71	25.96	207.4	.1978	3.19	1.96
100	9.26	33.84	26.19	185.7	.2472	2.78	2.15
150	8.81	34.02	26.40	166.5	.336	2.20	2.46
200	8.27	34.14	26.58	150.3	.416	1.58	2.61
250	7.78	34.17	26.68	141.8	.489	1.31	2.81
300	7.43	34.21	26.76	134.7	.559	1.02	2.98
400	6.76	34.25	26.88	123.9	.689	.69	3.18

STATION 90.37 (Interpolated Values at Standard Depths)

HORIZON: 33°11'N 118°23'W April 9, 1950 1400 GCT Wire angle: 41°
Sounding: 750 fms. Depth of observation: 800 m. Weather: partly cloudy
Sea: rough Wind: 220°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	14.05	33.47	25.02	295.5	.0000	5.73	.39
10	14.09	33.48	25.01	295.9	.0297	5.87	.41
20	13.37	33.48	25.16	282.1	.0587	5.88	.44
30	11.75	33.48	25.48	252.3	.0855	5.55	.66
50	10.23	33.54	25.79	222.5	.1333	3.59	1.56
75	9.48	33.71	26.05	198.2	.1861	3.29	1.82
100	9.05	33.83	26.22	183.2	.2341	2.75	1.98
150	8.43	34.03	26.47	160.0	.321	2.31	2.21
200	7.98	34.11	26.60	148.1	.398	1.82	2.40
250	7.57	34.17	26.71	138.8	.470	1.32	2.61
300	7.24	34.21	26.79	131.9	.539	.95	2.79
400	6.55	34.28	26.94	118.8	.665	.54	2.99
500	5.96	34.31	27.04	110.1	.780	.35	3.04
600	5.41	34.36	27.14	100.9	.887	.30	3.16
700	4.95	34.39	27.22	93.8	.985	.36	3.23
800	4.60	34.43	27.29	87.5	1.077	.49	3.25
1000	(4.09)	(34.47)	(27.38)	(80.3)	(1.246)	-	-

STATION 90.45 (Interpolated Values at Standard Depths)

HORIZON: 32°54'N 118°56'W April 9, 1950 0840 GCT Wire angle: 28°
Sounding: 950 fms. Depth of observation: 904 m. Weather: partly cloudy
Sea: very rough Wind: 290°, force 5

0	12.84	33.59	25.35	263.5	.0000	5.37	.79
10	12.87	33.60	25.35	263.6	.0265	5.22	.76
20	12.86	33.60	25.36	263.6	.0529	5.15	.80
30	12.85	33.61	25.37	262.8	.0794	4.75	1.00
50	10.35	33.71	25.91	211.8	.1271	2.91	1.74
75	9.86	33.74	26.01	202.1	.1791	2.74	1.91
100	9.50	33.82	26.14	190.9	.2285	2.50	2.01
150	8.85	34.06	26.43	164.0	.318	1.96	2.27
200	8.48	34.11	26.52	155.7	.398	1.82	2.31
250	7.97	34.18	26.66	143.6	.474	1.37	2.54
300	7.47	34.21	26.75	135.1	.544	.97	2.74
400	6.63	34.23	26.88	123.7	.674	.56	2.95
500	5.94	34.32	27.05	109.2	.792	.33	3.19
600	5.54	34.36	27.13	102.5	.899	.32	3.20
700	5.13	34.39	27.20	96.1	.999	.32	3.18
800	4.63	34.46	27.31	85.7	1.091	.38	3.21
1000	(4.08)	(34.55)	(27.44)	(74.5)	(1.253)	-	-

STATION 90.53 (Interpolated Values at Standard Depths)

HORIZON: 32°36'N 119°28'W April 9, 1950 0344 GCT Wire angle: 18°
Sounding: 400 fms. Depth of observation: 587 m. Weather: partly cloudy
Sea: high Wind: 290°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	13.23	33.51	25.21	276.6	.0000	5.53	.52
10	13.26	33.57	25.25	273.1	.0276	6.06	.63
20	13.23	33.54	25.24	274.9	.0551	5.90	.66
30	11.75	33.54	25.52	247.9	.0813	5.20	.71
50	10.15	33.64	25.89	213.8	.1277	4.06	1.54
75	9.44	33.70	26.05	198.5	.1796	3.50	1.73
100	9.08	33.86	26.24	181.2	.2273	2.68	2.01
150	8.25	34.11	26.56	151.3	.311	1.84	2.38
200	7.82	34.14	26.65	143.8	.385	1.53	2.54
250	7.49	34.19	26.74	136.0	.456	1.28	2.68
300	7.03	34.22	26.82	128.3	.522	.97	2.83
400	6.42	34.24	26.92	120.1	.648	.56	2.92
500	5.86	34.37	27.09	104.5	.761	.41	3.04
600	-	-	-	-	-	(.39)	(3.08)

STATION 90.60 (Interpolated Values at Standard Depths)

HORIZON: 32°26'N 119°56'W April 8, 1950 2345 GCT Wire angle: 16°
Sounding: 450 fms. Depth of observation: 598 m. Weather: cloudy
Sea: very rough Wind: 220°, force 3

0	13.92	33.22	24.85	311.2	.0000	5.19	.49
10	13.95	33.30	24.91	306.3	.0310	5.53	.48
20	13.75	33.29	24.94	303.4	.0616	5.51	.52
30	13.07	33.29	25.08	290.5	.0914	5.44	.60
50	11.70	33.40	25.42	257.9	.1465	5.31	.90
75	10.83	33.54	25.69	233.0	.2082	5.12	1.33
100	9.85	33.71	25.99	204.6	.2633	3.87	1.76
150	8.42	33.91	26.38	168.7	.357	2.75	2.11
200	8.18	34.12	26.58	150.4	.438	1.59	2.54
250	7.62	34.16	26.69	140.4	.511	1.49	2.67
300	7.35	34.16	26.73	137.1	.581	1.30	2.80
400	6.51	34.23	26.90	122.0	.711	.78	2.91
500	5.92	34.27	27.01	112.7	.830	.44	3.16
600	(5.38)	(34.36)	(27.15)	(100.4)	(.937)	(.35)	(3.26)

STATION 90.70 (Interpolated Values at Standard Depths)

HORIZON: 32°06'N 120°37'W April 8, 1950 1732, 1813 GCT Wire angle: 16°, 19°, Sounding: 2,250 fms. Depth of observation: 828, 1,250 m. Weather: rain Sea: rough Wind: 220°, 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	15.04	33.38	24.73	322.4	.0000	5.53	.48
10	14.95	33.40	24.77	319.1	.0322	5.62	.43
20	13.42	33.22	24.95	302.1	.0634	5.64	.50
30	13.29	33.22	24.98	299.8	.0936	5.68	.53
50	13.12	33.28	25.06	292.6	.1531	5.79	.54
75	12.89	33.30	25.12	287.4	.2261	5.81	.64
100	12.51	33.37	25.25	275.7	.2969	5.63	.74
150	9.69	33.62	25.95	209.5	.419	4.43	1.34
200	8.70	33.92	26.34	172.9	.515	4.14	1.60
250	7.79	34.00	26.54	154.5	.598	3.68	2.04
300	7.03	34.04	26.68	141.7	.672	2.40	2.53
400	6.36	34.20	26.90	122.2	.805	0.99	3.02
500	5.39	34.22	27.03	109.6	.922	0.62	3.21
600	5.07	34.35	27.18	97.1	1.027	0.35	3.27
700	4.77	34.45	27.29	87.1	1.120	0.35	3.30
800	4.44	34.45	27.33	84.1	1.206	0.47	3.33
1000	3.88	34.50	27.42	75.7	1.368	0.71	3.32

STATION 90.80 (Interpolated Values at Standard Depths)

HORIZON: 31°47'N 121°15'W April 8, 1950 1119 GCT Wire angle: 31° Sounding: 2,430 fms. Depth of Observation: 1,042 m. Weather: partly cloudy Sea: rough Wind: 250°, force 4.

0	15.62	33.55	24.74	321.9	.0000	5.04	.40
10	15.65	33.53	24.72	324.2	.0324	4.78	.37
20	15.53	33.50	24.72	324.0	.0650	5.01	.40
30	15.49	33.50	24.73	323.4	.0975	5.01	.39
50	15.44	33.53	24.76	320.9	.1622	4.94	.34
75	15.38	33.62	24.84	313.9	.2420	4.81	.36
100	14.45	33.75	25.15	285.6	.3174	4.89	.34
150	11.83	33.68	25.62	241.7	.450	4.36	.79
200	9.30	33.77	26.13	193.3	.560	4.03	1.35
250	8.20	33.91	26.41	167.1	.650	3.79	1.61
300	7.42	33.99	26.59	150.7	.730	2.94	2.04
400	6.08	34.04	26.81	130.4	.872	1.45	2.64
500	5.79	34.21	26.98	115.4	.996	0.52	2.94
600	5.16	34.34	27.16	99.1	1.104	0.40	3.00
700	4.66	34.41	27.27	88.7	1.199	0.36	3.04
800	4.31	34.44	27.33	83.3	1.286	0.41	3.09
1000	3.86	34.50	27.43	75.5	1.447	0.59	3.12

STATION 90.90 (Interpolated Values at Standard Depths)

HORIZON: 31°25'N 121°59'W April 8, 1950 0506 GCT Wire angle: 26°
Sounding: 2,200 fms. Depth of observation: 1,032 m. Weather: partly cloudy
Sea: rough Wind: 220°, force 3-4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	15.26	33.29	24.62	333.2	.0000	5.52	.42
10	15.30	33.28	24.60	335.2	.0336	5.15	.40
20	15.85	33.62	24.74	322.3	.0666	5.36	.40
30	15.80	33.61	24.74	322.2	.0989	5.29	.40
50	15.63	33.54	24.73	324.2	.1639	5.08	.38
75	15.48	33.42	24.67	330.5	.2462	5.14	.37
100	15.19	33.56	24.84	314.9	.3274	5.03	.41
150	12.04	33.70	25.59	244.0	.468	4.89	.69
200	9.65	33.84	26.13	193.7	.578	3.97	1.38
250	8.30	33.96	26.43	164.8	.669	3.44	1.77
300	7.58	33.99	26.56	153.0	.749	2.80	2.06
400	6.19	34.07	26.82	129.6	.891	1.56	2.49
500	5.47	34.16	26.98	115.1	1.014	0.85	2.90
600	5.10	34.26	27.10	104.3	1.125	0.48	3.06
700	4.77	34.36	27.22	93.7	1.225	0.37	3.11
800	4.46	34.45	27.32	84.2	1.315	0.44	3.17
1000	3.90	34.54	27.45	73.0	1.474	0.63	3.14

STATION 90.100 (Interpolated Values at Standard Depths)

HORIZON: 31°03'N 122°42'W April 7, 1950 2253 GCT Wire angle: 7°
Sounding: 2,420 fms. Depth of observation: 1,203 m. Weather: partly cloudy
Sea: rough Wind: 270°, force 3.

0	15.66	33.42	24.63	332.1	.0000	5.37	.44
10	15.46	33.46	24.71	325.3	.0330	5.18	.41
20	15.33	33.45	24.73	323.5	.0656	5.50	.43
30	15.20	33.42	24.73	323.2	.0980	5.48	.43
50	14.94	33.39	24.77	320.6	.1627	5.13	.38
75	14.84	33.39	24.79	319.2	.2432	5.37	.42
100	14.21	33.42	24.94	305.0	.3217	5.17	.44
150	12.65	33.43	25.27	275.2	.468	5.01	.66
200	9.67	33.62	25.95	210.3	.590	3.74	1.50
250	8.65	33.85	26.29	178.4	.688	3.33	1.82
300	7.77	33.97	26.52	157.2	.772	2.93	1.98
400	6.49	34.04	26.76	135.7	.920	1.71	2.59
500	5.76	34.20	26.97	115.8	1.047	0.74	2.96
600	5.45	34.27	27.07	108.0	1.160	0.39	-
700	4.99	34.30	27.15	100.8	1.265	0.40	-
800	4.47	34.34	27.24	92.5	1.363	0.42	-
1000	3.90	34.47	27.40	78.2	1.535	0.59	-

STATION 90.110 (Interpolated Values at Standard Depths)

HORIZON: 30°39'N 123°24'W April 7, 1950 1640 GCT Wire angle: 14°
Sounding: 2,155 fms. Depth of observation: 1,179 m. Weather: overcast
Sea: rough Wind: 240°, 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	15.81	33.55	24.70	326.0	.0000	5.57	.38
10	15.85	33.53	24.67	328.5	.0329	5.57	.33
20	15.71	33.55	24.72	324.1	.0656	5.64	.34
30	15.66	33.57	24.75	322.0	.0981	5.64	.36
50	15.65	33.64	24.80	317.3	.1623	5.54	.39
75	15.68	33.64	24.79	318.6	.2422	5.52	.32
100	15.68	33.68	24.83	316.4	.3221	5.48	.39
150	11.94	33.47	25.43	259.1	.467	5.11	.74
200	9.47	33.69	26.04	201.9	.583	4.15	1.48
250	8.48	33.92	26.38	170.5	.677	3.46	1.91
300	7.75	34.03	26.57	152.6	.758	2.73	2.14
400	6.65	34.12	26.80	132.0	.902	1.31	2.61
500	5.88	34.22	26.98	115.7	1.027	0.73	2.88
600	5.41	34.32	27.11	103.9	1.137	0.40	3.03
700	4.99	34.37	27.20	95.6	1.238	0.38	3.06
800	4.52	34.41	27.29	87.9	1.331	0.39	3.09
1000	3.90	34.49	27.41	76.8	1.497	0.57	3.16

STATION 90.120 (Interpolated Values at Standard Depths)

HORIZON: 30°22'N 124°02'W April 7, 1950 1027 GCT Wire angle: 1°
Sounding: 2,425 fms. Depth of observation: 1,205 m. Weather: partly cloudy
Sea: moderate Wind: 240°, force 2.

0	16.20	33.49	24.56	338.7	.0000	4.74	.46
10	16.10	33.53	24.61	334.1	.0338	5.08	.38
20	15.95	33.50	24.63	333.3	.0673	5.25	.39
30	15.82	33.50	24.66	330.6	.1006	5.23	.38
50	15.60	33.58	24.77	320.7	.1661	4.86	.36
75	14.90	33.51	24.87	311.7	.2456	5.07	.41
100	12.66	33.31	25.17	282.8	.3203	5.23	.60
150	10.31	33.48	25.73	230.1	.449	4.44	1.17
200	8.89	33.83	26.24	175.4	.552	3.22	1.73
250	8.11	33.97	26.47	161.5	.636	2.76	2.16
300	7.38	34.04	26.63	146.4	.714	2.46	2.42
400	6.22	34.14	26.87	124.8	.851	1.37	2.63
500	5.61	34.18	26.97	115.5	.972	0.72	2.83
600	5.40	34.28	27.08	106.6	1.084	0.43	3.01
700	5.00	34.35	27.18	97.3	1.187	0.38	3.14
800	4.54	34.40	27.28	89.0	1.281	0.37	3.24
1000	3.94	34.47	27.39	78.7	1.450	0.58	3.14

STATION 93.30 (Interpolated Values at Standard Depths)

HORIZON: 32°51'N 117°32'W April 13, 1950 0400 GCT Wire angle: 14°
Sounding: 480 fms. Depth of observation: 490 m. Weather: partly cloudy
Sea: slight Wind: 360°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	15.42	33.49	24.74	322.1	.0000	5.53	.45
10	14.55	33.45	24.89	307.4	.0316	5.46	.49
20	13.52	33.47	25.12	285.7	.0614	5.85	.56
30	12.76	33.46	25.27	272.1	.0894	5.77	.65
50	11.25	33.44	25.54	246.9	.1415	5.14	1.12
75	10.13	33.52	25.80	222.8	.2006	3.55	1.70
100	9.43	33.79	26.12	192.2	.2528	2.96	1.99
150	8.75	34.05	26.43	163.3	.342	2.36	2.36
200	8.27	34.15	26.59	149.6	.421	1.78	2.63
250	7.88	34.19	26.68	141.7	.494	1.26	2.79
300	7.58	34.22	26.74	136.0	.564	0.97	2.89
400	6.82	34.23	26.86	126.3	.697	0.65	3.15
500	(6.25)	(34.31)	(27.00)	(114.0)	(.818)	(0.40)	(3.29)

STATION 93.40 (Interpolated Values at Standard Depths)

HORIZON: 32°30'N 118°12.5'W April 13, 1950 1013 GCT Wire angle: 29°
Sounding: 950 fms. Depth of observation: 1,282 m. Weather: overcast
Sea: rough Wind: 260°, force 5.

0	14.23	33.58	25.06	291.2	.0000	5.78	.51
10	14.20	33.60	25.08	289.3	.0291	6.07	.47
20	13.80	33.55	25.13	285.3	.0580	5.83	.64
30	12.75	33.53	25.32	266.8	.0857	5.55	.81
50	11.59	33.56	25.57	243.9	.1370	4.89	1.06
75	10.36	33.63	25.84	218.4	.1951	3.73	1.50
100	9.33	33.74	26.10	194.3	.2471	3.18	2.03
150	8.64	33.94	26.37	169.6	.339	2.56	2.07
200	8.03	34.09	26.58	150.5	.419	1.99	2.32
250	7.64	34.17	26.70	139.8	.492	1.48	2.77
300	7.31	34.21	26.78	132.9	.561	1.06	2.95
400	6.57	34.25	26.91	121.3	.689	0.61	3.04
500	5.98	34.32	27.04	109.7	.806	0.40	3.17
600	5.53	34.34	27.11	103.9	.913	0.32	3.25
700	5.06	34.37	27.19	96.6	1.015	0.34	3.31
800	4.63	34.41	27.27	89.5	1.109	0.38	3.37
1000	3.92	34.48	27.40	77.7	1.278	0.61	3.36

STATION 93.50 (Interpolated Values at Standard Depths)

HORIZON: 32°10'N 118°53.5'W April 13, 1950 1626, 1730 GCT Wire angle: 42°,55°
Sounding: 750 fms. Depth of observation: 833, 1,051 m. Weather: partly cloudy
Sea: very rough Wind: 340°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	14.47	33.44	24.90	306.2	.0000	5.26	.42
10	14.49	33.46	24.91	305.5	.0307	5.31	.44
20	14.49	33.44	24.90	307.1	.0615	5.29	.44
30	14.48	33.44	24.90	307.2	.0923	5.24	.45
50	13.76	33.45	25.06	292.7	.1526	5.06	.62
75	10.94	33.53	25.66	235.6	.2190	4.40	1.18
100	9.81	33.71	26.00	204.2	.274	3.17	1.79
150	8.87	33.93	26.32	174.0	.370	2.58	2.21
200	8.16	34.03	26.51	156.9	.453	2.04	2.40
250	7.62	34.13	26.67	142.6	.528	1.53	2.67
300	7.23	34.18	26.76	134.2	.598	1.06	2.92
400	6.56	34.25	26.91	121.3	.727	.74	3.23
500	6.05	34.35	27.06	108.4	.843	.48	3.34
600	5.48	34.38	27.15	100.1	.948	.47	3.38
700	5.05	34.39	27.21	95.0	1.046	.52	3.38
800	4.66	34.41	27.27	89.8	1.140	.46	3.36
1000	3.97	34.48	27.40	78.1	1.309	.59	3.31

STATION 93.60 (Interpolated Values at Standard Depths)

HORIZON: 31°50'N 119°34'W April 14, 1950 0030 GCT Wire angle: 59°
Sounding: 1,030 fms. Depth of observation: 1,151 m. Weather: clear
Sea: high Wind: 340°, force 7

0	13.22	33.35	25.09	288.2	.0000	6.11	.66
10	13.24	33.39	25.12	286.1	.0288	5.94	.64
20	13.02	33.37	25.15	283.4	.0574	6.08	.75
30	12.45	33.44	25.31	267.9	.0851	6.14	.88
50	11.40	33.52	25.57	243.7	.1365	5.51	1.15
75	10.27	33.59	25.83	219.8	.1948	4.53	1.64
100	9.35	33.74	26.10	194.6	.2469	3.19	2.09
150	8.60	34.00	26.42	164.7	.337	2.18	2.50
200	8.00	34.06	26.56	152.2	.417	1.91	2.68
250	7.47	34.09	26.66	143.1	.492	1.81	2.76
300	7.04	34.12	26.74	135.0	.562	1.49	2.89
400	6.50	34.22	26.90	122.5	.692	.76	3.16
500	6.09	34.28	27.00	114.0	.811	.49	3.27
600	5.53	34.35	27.12	103.2	.921	.45	3.44
700	4.95	34.42	27.24	91.6	1.019	.45	3.53
800	4.57	34.44	27.30	86.4	1.109	.50	3.56
1000	4.02	34.45	27.37	81.1	1.279	.72	3.56

STATION 97.32 (Interpolated Values at Standard Depths)

HORIZON: 32°11.5'N 117°17'W April 15, 1950 1726 GCT Wire angle: 17°
Sounding: 725 fms. Depth of observation: 988 m. Weather: partly cloudy
Sea: very rough Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	14.30	33.62	25.08	289.7	.0000	5.37	.32
10	14.24	33.51	25.00	296.9	.0295	5.25	.36
20	13.15	33.57	25.28	271.3	.0580	4.83	.50
30	11.68	33.61	25.59	241.6	.0837	4.00	1.20
50	9.39	33.77	26.11	191.9	.1273	2.82	1.80
75	9.05	33.97	26.33	172.3	.1731	2.37	2.09
100	8.93	34.03	26.39	166.6	.2157	2.29	2.13
150	8.60	34.12	26.51	155.9	.297	2.01	2.19
200	8.17	34.20	26.64	144.4	.372	1.70	2.32
250	7.70	34.24	26.74	135.5	.443	1.38	2.50
300	7.32	34.27	26.82	128.7	.510	1.03	2.66
400	6.70	34.32	26.95	117.8	.634	.55	2.86
500	6.13	34.37	27.06	108.0	.748	.37	3.05
600	5.66	34.38	27.13	102.6	.854	.32	3.24
700	5.20	34.37	27.18	98.3	.955	.43	3.30
800	4.77	34.47	27.30	86.8	1.049	.55	3.40
1000	(4.10)	(34.51)	(27.41)	(77.5)	(1.215)	(.62)	(3.38)

STATION 97.40 (Interpolated Values at Standard Depths)

HORIZON: 31°55.5'N 117°50'W April 15, 1950 1315 CCT Wire angle: 15°
Sounding: 378 fms. Depth of observation: 396 m. Weather: clear
Sea: very rough Wind: 320°, force 5

0	14.38	33.44	24.92	304.3	.0000	5.74	.44
10	14.39	33.49	24.96	301.1	.0304	5.63	.47
20	14.38	33.47	24.95	302.7	.0607	5.89	.47
30	14.35	33.41	24.91	306.8	.0913	5.89	.48
50	12.32	33.33	25.25	274.0	.1497	5.67	.74
75	10.81	33.42	25.60	241.5	.2145	4.62	1.30
100	9.89	33.60	25.90	213.3	.2717	3.92	2.08
150	8.90	33.91	26.30	175.9	.370	2.69	2.15
200	8.34	34.04	26.49	158.7	.454	2.34	2.29
250	8.01	34.10	26.59	150.3	.532	1.74	2.58
300	7.59	34.21	26.74	136.9	.604	1.27	2.79
400	6.77	34.28	26.91	121.7	.734	(.67)	(3.06)

STATION 100.30 (Interpolated Values at Standard Depths)

CREST: 31°41.0'N 116°47'W April 17, 1950 0825 GCT Wire angle: 8°
Sounding: 280 fms. Depth of observation: 394 m. Weather: clear
Sea: very rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σt (mg/cm^3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	12.99	33.69	25.40	258.9	.0000	7.05	.50
10	12.95	33.68	25.40	259.0	.0260	6.50	.56
20	12.73	33.68	25.44	255.2	.0518	5.15	.70
30	10.65	33.68	25.83	218.6	.0756	4.10	1.45
50	9.79	33.84	26.10	193.3	.1170	2.97	1.92
75	9.09	34.00	26.34	170.6	.1627	2.37	2.18
100	8.74	34.06	26.44	161.6	.2045	2.15	2.37
150	8.29	34.13	26.57	150.5	.283	1.85	2.42
200	8.48	34.23	26.62	146.7	.358	1.33	2.54
250	8.02	34.20	26.66	143.0	.431	1.43	2.57
300	7.78	34.23	26.72	138.1	.502	1.02	2.65
400	7.16	34.23	26.81	130.9	.637	.70	(2.84)

STATION 100.40 (Interpolated Values at Standard Depths)

CREST: 31°20'N 117°27'W April 17, 1950 0212 GCT Wire angle: 27°
Sounding: 1,200 fms. Depth of observation: 1090 m. Weather: clear
Sea: rough Wind: 320°, force 3

0	15.75	33.49	24.66	329.0	.0000	6.00	.51
10	15.22	33.48	24.77	318.9	.0325	5.80	.51
20	14.70	33.51	24.91	306.2	.0639	5.83	.51
30	14.48	33.49	24.94	303.6	.0945	5.73	.60
50	11.50	33.45	25.50	250.7	.1502	5.15	1.15
75	10.27	33.68	25.90	213.1	.2085	3.67	1.68
100	9.47	33.81	26.13	191.2	.2594	2.92	2.06
150	8.96	34.01	26.37	169.5	.350	2.34	2.30
200	8.36	34.12	26.55	153.0	.431	1.97	2.43
250	7.87	34.18	26.67	142.3	.506	1.46	2.60
300	7.50	34.23	26.77	134.1	.575	1.00	2.79
400	6.77	34.30	26.92	120.3	.704	.61	2.93
500	6.10	34.28	26.99	114.3	.822	.50	3.04
600	5.52	34.35	27.12	103.0	.931	.43	3.13
700	5.11	34.40	27.21	95.0	1.031	.40	3.18
800	4.69	34.43	27.28	88.6	1.124	.44	3.18
1000	3.95	34.49	27.41	77.3	1.292	.61	3.16

STATION 100.50 (Interpolated Values at Standard Depths)

CREST: 30°59'N 118°08'W April 16, 1950 1959 GCT Wire angle: 15°
Sounding: 1,000 fms. Depth of observation: 1151 m. Weather: clear
Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.17	33.46	24.77	319.0	.0000	5.70	.48
10	14.84	33.46	24.84	312.5	.0317	5.65	.48
20	14.80	33.43	24.83	313.9	.0632	5.76	.48
30	12.75	33.42	25.24	274.9	.0927	5.75	.50
50	11.50	33.45	25.50	250.7	.1455	4.95	1.00
75	10.20	33.63	25.87	215.7	.2042	3.65	1.63
100	9.64	33.79	26.09	195.3	.2559	2.95	1.95
150	9.09	34.08	26.41	166.0	.347	2.15	2.29
200	8.74	34.17	26.53	155.2	.428	1.62	2.44
250	8.39	34.20	26.61	148.4	.504	1.30	2.58
300	7.90	34.21	26.69	141.4	.577	1.17	2.72
400	6.74	34.20	26.85	127.5	.713	.80	2.82
500	6.16	34.26	26.97	116.5	.836	.55	3.02
600	5.53	34.35	27.12	103.2	.946	.40	3.11
700	4.99	34.38	27.21	95.0	1.047	.40	3.19
800	4.58	34.42	27.29	88.0	1.139	.42	3.22
1000	3.96	34.44	27.37	81.0	1.310	.65	3.15

STATION 100.60 (Interpolated Values at Standard Depths)

CREST: 30°40'N 118°50'W April 16, 1950 1346 GCT Wire angle: 8°
Sounding: 1,800 fms. Depth of observation: 1195 m. Weather: clear
Sea: very rough Wind: 270°, force 1-2

0	15.00	33.48	24.82	314.0	.0000	5.60	.43
10	14.96	33.44	24.80	316.4	.0317	5.50	.44
20	14.95	33.46	24.82	314.9	.0633	5.50	.45
30	14.95	33.48	24.83	313.8	.0949	5.55	.46
50	14.18	33.44	24.96	301.6	.1568	5.75	.54
75	11.73	33.44	25.45	256.0	.2268	5.75	.79
100	10.57	33.50	25.70	231.9	.2882	4.25	1.35
150	8.77	33.84	26.27	179.1	.392	2.95	1.92
200	8.14	34.05	26.53	155.1	.476	2.00	2.39
250	7.67	34.13	26.66	143.2	.551	1.37	2.64
300	7.23	34.19	26.77	133.2	.621	1.15	2.74
400	6.64	34.22	26.88	124.6	.750	1.05	2.85
500	5.69	34.28	27.04	109.0	.868	.52	2.97
600	5.30	34.34	27.14	100.7	.974	.45	2.99
700	4.87	34.40	27.24	92.1	1.071	.42	3.06
800	4.48	34.43	27.31	85.9	1.161	.45	3.14
1000	3.94	34.47	27.39	78.6	1.328	.68	3.05

STATION 100.70 (Interpolated Values at Standard Depths)

CREST: 30°19.5'N 119°29.5'W April 16, 1950 0733 GCT Wire angle: 19°
Sounding: 2,190 fms. Depth of observation: 1100 m. Weather: clear
Sea: very rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.38	33.40	24.68	327.8	.0000	5.94	.44
10	15.36	33.44	24.71	324.8	.0328	5.50	.42
20	15.36	33.44	24.71	324.9	.0654	5.58	.50
30	15.36	33.44	24.71	325.3	.0980	5.58	.50
50	15.34	33.44	24.72	325.3	.1634	5.66	.46
75	15.23	33.57	24.84	314.4	.2438	5.67	.45
100	13.38	33.53	25.20	280.7	.3187	5.60	.53
150	10.87	33.50	25.65	238.1	.449	4.82	1.28
200	8.78	33.83	26.26	180.7	.555	3.64	1.85
250	7.90	33.93	26.47	161.2	.641	3.24	2.16
300	7.18	34.03	26.65	144.3	.718	2.68	2.40
400	6.56	34.21	26.88	124.1	.853	.94	2.95
500	6.07	34.23	26.96	117.4	.975	.67	3.07
600	5.45	34.27	27.06	108.0	1.089	.54	3.19
700	4.94	34.38	27.21	94.4	1.191	.40	3.26
800	4.59	34.44	27.30	86.5	1.282	.45	3.26
1000	3.98	34.46	27.38	79.8	1.450	.64	3.21

STATION 100.80 (Interpolated Values at Standard Depths)

CREST: 29°57.0'N 120°10'W April 16, 1950 0120 GCT Wire angle: 18°
Sounding: 1,900 fms. Depth of observation: 1289 m. Weather: partly cloudy
Sea: high Wind: 340°, force 5

0	15.64	33.46	24.67	328.7	.0000	5.47	.50
10	15.61	33.49	24.69	326.4	.0329	5.45	.48
20	15.62	33.48	24.69	327.5	.0657	5.44	.48
30	15.60	33.46	24.67	328.8	.0987	5.43	.48
50	15.53	33.49	24.71	325.6	.1644	5.50	.46
75	14.58	33.35	24.81	317.0	.2452	5.75	.49
100	13.00	33.32	25.11	288.6	.3214	5.75	.59
150	10.26	33.47	25.74	230.0	.452	4.28	1.04
200	8.83	33.84	26.26	180.8	.555	4.00	1.71
250	8.03	33.98	26.49	159.5	.641	3.52	1.94
300	7.50	34.05	26.62	147.4	.712	2.53	2.36
400	6.92	34.17	26.80	132.1	.859	1.02	2.90
500	6.28	34.26	26.96	118.1	.985	.63	3.00
600	5.75	34.28	27.04	111.1	1.101	.52	3.10
700	5.29	34.34	27.14	101.6	1.208	.56	3.11
800	4.83	34.39	27.24	93.2	1.307	.50	3.17
1000	4.04	34.49	27.40	78.3	1.480	.57	3.20

STATION 100.90 (Interpolated Values at Standard Depths)

CREST: 29°36'N 120°49'W April 15, 1950 1907 GCT Wire angle: 27°
Sounding: 2,200 fms. Depth of observation: 1126 m. Weather: partly cloudy
Sea: high Wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.20	33.65	24.68	327.0	.0000	5.35	.46
10	16.15	33.68	24.72	324.1	.0327	5.56	.45
20	16.12	33.66	24.71	325.2	.0653	5.59	.44
30	16.11	33.65	24.70	326.0	.0980	5.59	.44
50	16.12	33.64	24.69	327.5	.1637	5.60	.44
75	15.48	33.65	24.85	313.6	.2442	5.67	.45
100	14.40	33.61	25.05	294.9	.3208	5.78	.44
150	11.45	33.61	25.63	240.1	.455	4.90	1.42
200	9.05	33.77	26.17	189.4	.564	3.35	1.85
250	8.14	33.98	26.47	161.1	.652	2.86	2.17
300	7.57	34.07	26.63	146.9	.729	2.44	2.48
400	6.36	34.16	26.87	125.2	.867	1.01	2.89
500	5.88	34.23	26.98	115.0	.988	.78	2.91
600	5.28	34.26	27.08	106.4	1.099	.74	2.97
700	4.88	34.36	27.21	95.0	1.201	.47	3.18
800	4.52	34.45	27.32	85.0	1.292	.39	3.26
1000	3.92	34.50	27.42	76.2	1.455	.68	3.24

STATION 100.100 (Interpolated Values at Standard Depths)

CREST: 29°17'N 121°29'W April 15, 1950 1254, 1337 GCT Wire angle: 33°, 39° Sounding: 2,050 fms. Depth of observation: 753, 1023 m. Weather: partly cloudy Sea: very rough Wind: 360°, force 5

0	16.05	33.62	24.70	326.0	.0000	5.45	.44
10	16.04	33.62	24.70	326.2	.0327	5.40	.44
20	16.05	33.62	24.70	326.5	.0655	5.42	.44
30	16.05	33.62	24.70	326.9	.0983	5.43	.44
50	16.06	33.62	24.69	327.6	.1641	5.48	.39
75	16.82	34.00	24.81	317.3	.2452	5.44	.38
100	15.44	33.95	25.09	291.5	.3217	5.38	.41
150	12.74	33.77	25.51	251.9	.459	4.90	.78
200	9.78	33.73	26.02	204.2	.573	4.26	1.43
250	8.55	33.94	26.38	170.1	.668	3.51	1.90
300	7.88	34.06	26.58	152.1	.749	2.69	2.21
400	7.04	34.20	26.80	131.5	.892	1.22	2.70
500	6.40	34.28	26.96	118.2	1.018	.65	3.07
600	5.74	34.33	27.08	107.4	1.131	.47	3.20
700	5.15	34.38	27.19	97.0	1.235	.41	3.25
800	4.63	34.42	27.28	88.8	1.328	.41	3.26
1000	3.97	34.50	27.41	76.6	1.496	.53	3.24

STATION 100.110 (Interpolated Values at Standard Depths)

CREST: 28°57.5'N 122°08.5'W April 15, 1950 0641 GCT Wire angle: 28°
Sounding: 2,260 fms. Depth of observation: 1031 m. Weather: partly cloudy
Sea: very high Wind: 360°, force 6

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.22	33.64	24.67	328.2	.0000	5.58	.40
10	16.22	33.64	24.67	328.5	.0330	5.47	.42
20	16.22	33.58	24.63	333.2	.0662	5.43	.42
30	16.21	33.57	24.62	334.1	.0997	5.43	.41
50	15.99	33.64	24.72	324.7	.1659	5.43	.38
75	15.70	33.64	24.79	319.0	.2468	5.57	.38
100	15.54	33.66	24.84	314.9	.3266	5.52	.40
150	13.23	33.68	25.35	267.8	.473	5.13	.61
200	10.04	33.68	25.94	211.9	.594	4.22	1.50
250	8.87	33.82	26.24	183.8	.694	3.26	1.92
300	8.08	34.00	26.50	159.5	.780	2.80	2.11
400	6.85	34.12	26.77	134.9	.929	1.56	2.57
500	6.06	34.19	26.93	120.3	1.057	.76	2.96
600	5.44	34.26	27.06	108.7	1.173	.47	3.04
700	4.93	34.36	27.20	95.8	1.276	.36	3.08
800	4.60	34.38	27.25	91.3	1.370	.43	3.15
1000	4.00	34.48	27.40	78.6	1.542	.69	3.12

STATION 100.120 (Interpolated Values at Standard Depths)

CREST: 28°39.5'N 122°48.5'W April 15, 1950 0028 GCT Wire angle: 41°
Sounding: 2,350 fms. Depth of observation: 1155 m. Weather: cloudy
Sea: very high Wind: 360°, force 7

0	17.06	33.89	24.67	328.5	.0000	5.78	.30
10	17.05	33.87	24.66	330.0	.0331	5.45	.30
20	17.05	33.90	24.68	328.1	.0661	5.23	.34
30	17.04	33.91	24.69	327.3	.0990	5.25	.37
50	17.02	33.88	24.67	329.7	.1650	5.48	.42
75	16.52	33.84	24.76	322.1	.2470	5.45	.45
100	15.80	33.80	24.89	310.3	.3265	5.45	.62
150	13.44	33.93	25.49	253.7	.468	5.00	.85
200	10.33	33.64	25.85	219.7	.588	4.27	1.23
250	8.84	33.88	26.29	178.9	.688	3.81	1.57
300	7.94	34.03	26.54	155.2	.772	3.45	1.88
400	6.78	34.08	26.75	136.8	.919	1.70	2.42
500	5.87	34.14	26.91	121.6	1.050	1.05	2.80
600	5.32	34.20	27.03	111.5	1.167	1.05	2.96
700	4.92	34.35	27.19	96.4	1.272	.51	3.04
800	4.60	34.42	27.28	88.2	1.365	.39	3.05
1000	4.00	34.46	27.38	80.0	1.536	.65	2.92

STATION 105.35 (Interpolated Values at Standard Depths)

CREST: 30°39'N 116°32.5'W April 4, 1950 0741 GCT Wire angle: 13°
Sounding: 680 fms. Depth of observation: 1200 m. Weather: overcast
Sea: very rough Wind: 270°, force 1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	14.54	33.51	24.94	302.6	.0000	5.65	.38
10	14.05	33.49	25.03	294.3	.0300	5.80	.38
20	13.13	33.49	25.22	276.6	.0586	5.25	.42
30	12.10	33.50	25.43	257.1	.0854	4.00	1.20
50	10.53	33.60	25.79	223.0	.1337	3.02	1.42
75	9.67	33.75	26.05	198.4	.1866	2.67	1.66
100	9.16	33.90	26.25	179.6	.2342	2.60	1.82
150	8.43	34.07	26.50	157.0	.319	1.95	2.12
200	8.03	34.13	26.61	147.5	.396	1.82	2.40
250	7.79	34.18	26.68	141.2	.468	1.47	2.73
300	7.48	34.22	26.76	134.5	.538	.93	3.04
400	6.50	34.22	26.89	122.6	.667	.67	3.06
500	6.22	34.34	27.02	111.7	.786	.35	3.32
600	5.77	34.31	27.06	109.2	.897	.33	3.30
700	5.27	34.37	27.17	99.3	1.002	.35	3.36
800	4.81	34.42	27.26	91.0	1.098	.38	3.40
1000	4.08	34.43	27.35	83.1	1.275	.54	3.34

STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°46.5'N 116°01'W April 11, 1950 2310 GCT Wire angle: 27°
Sounding: 730 fms. Depth of observation: 1135 m. Weather: cloudy
Sea: very rough Wind: 320°, force 5

0	12.85	33.58	25.34	264.3	.0000	6.20	.54
10	12.45	33.57	25.41	258.0	.0262	5.73	.63
20	11.97	33.63	25.55	244.8	.0515	5.25	.90
30	11.70	33.67	25.63	237.5	.0757	5.18	1.24
50	11.12	33.69	25.75	226.5	.1223	4.95	1.35
75	10.10	33.71	25.95	208.2	.1769	3.30	1.87
100	9.07	33.89	26.26	178.8	.2256	3.06	1.97
150	8.44	34.02	26.46	160.8	.3111	2.57	2.29
200	8.20	34.14	26.59	149.4	.389	2.35	2.36
250	8.18	34.27	26.70	140.1	.462	2.20	2.62
300	7.94	34.28	26.74	136.8	.532	1.93	2.84
400	6.83	34.25	26.87	125.0	.664	.85	2.92
500	6.25	34.30	26.99	114.8	.785	.66	3.06
600	5.78	34.34	27.08	107.0	.897	.52	3.12
700	5.34	34.35	27.14	101.8	1.002	.42	3.17
800	4.89	34.40	27.24	93.4	1.101	.40	3.21
1000	4.09	34.49	27.39	78.7	1.275	.71	3.20

STATION 110.40 (Interpolated Values at Standard Depths)

CREST: 29°36.5'N 116°20'W April 12, 1950 0307 GCT Wire angle: 38°
Sounding: 2,100 fms. Depth of observation: 976 m. Weather: cloudy
Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.28	33.55	24.81	314.7	.0000	5.74	.46
10	15.23	33.53	24.81	315.5	.0316	5.75	.42
20	15.20	33.55	24.83	313.5	.0632	5.57	.40
30	15.19	33.53	24.82	315.0	.0948	5.59	.42
50	13.40	33.41	25.10	288.6	.1554	5.67	.59
75	11.30	33.39	25.49	251.9	.2234	5.25	.98
100	10.36	33.55	25.78	224.9	.2834	4.00	1.48
150	9.09	33.90	26.27	179.4	.385	2.85	2.00
200	8.38	34.07	26.51	157.0	.470	2.30	2.27
250	7.83	34.13	26.64	145.4	.546	1.86	2.50
300	7.32	34.17	26.74	136.0	.617	1.41	2.64
400	6.62	34.23	26.89	123.5	.748	.81	2.93
500	6.07	34.25	26.97	116.1	.868	.55	2.97
600	5.49	34.35	27.12	102.5	.979	.42	3.11
700	5.00	34.41	27.23	92.9	1.077	.39	3.17
800	4.65	34.43	27.29	88.2	1.169	.44	3.18
1000	(4.06)	(34.45)	(27.37)	(81.4)	(1.340)	(.60)	(3.15)

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°13.5'N 116°59'W April 12, 1950 0902 GCT Wire angle: 36°
Sounding: 1,900 fms. Depth of observation: 1012 m. Weather: partly cloudy
Sea: very rough Wind: 320°, force 5

0	16.14	33.68	24.72	323.5	.0000	5.64	.32
10	16.11	33.69	24.74	322.5	.0324	5.50	.42
20	16.11	33.69	24.74	322.8	.0648	5.45	.42
30	16.12	33.67	24.72	324.7	.0973	5.48	.42
50	15.66	33.59	24.76	321.2	.1622	5.62	.44
75	14.59	33.56	24.97	301.8	.2405	5.46	.46
100	13.36	33.58	25.24	276.6	.3133	5.58	.66
150	10.27	33.65	25.87	216.9	.438	3.58	1.73
200	9.91	34.15	26.32	175.1	.536	2.05	2.13
250	9.89	34.39	26.52	158.0	.620	.93	2.61
300	9.18	34.38	26.63	148.2	.697	.85	2.76
400	7.86	34.39	26.84	129.1	.837	.54	2.91
500	6.79	34.33	26.94	119.8	.963	.56	2.96
600	5.95	34.34	27.06	109.1	1.078	.39	3.11
700	5.33	34.37	27.16	100.1	1.184	.30	3.26
800	4.85	34.42	27.26	91.5	1.280	.36	3.29
1000	4.05	34.49	27.40	78.4	1.452	.58	3.20

STATION 110.60 (Interpolated Values at Standard Depths)

CREST: 28°50'N 117°40'W April 12, 1950 1457 GCT Wire angle: 20°
Sounding: 2,000 fms. Depth of observation: 1272 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.10	33.71	24.75	320.5	.0000	5.42	.41
10	16.07	33.71	24.76	320.2	.0322	5.46	.43
20	16.07	33.71	24.76	320.5	.0643	5.35	.45
30	16.07	33.71	24.76	320.8	.0965	5.35	.46
50	15.92	33.69	24.78	319.4	.1609	5.48	.46
75	15.31	33.67	24.90	308.6	.2398	5.58	.48
100	14.45	33.58	25.01	298.2	.3161	5.58	.53
150	10.77	33.63	25.77	226.9	.448	4.65	1.39
200	10.02	33.98	26.17	189.4	.553	2.40	2.12
250	9.57	34.27	26.47	161.7	.642	1.55	2.46
300	9.11	34.33	26.60	150.8	.720	1.04	2.74
400	7.96	34.33	26.78	135.0	.864	.65	2.87
500	6.61	34.33	26.97	117.4	.992	.45	3.04
600	6.06	34.35	27.05	109.8	1.106	.45	3.02
700	5.40	34.39	27.17	99.6	1.212	.50	3.05
800	4.78	34.43	27.27	89.8	1.313	.50	3.17
1000	4.06	34.49	27.40	78.5	1.483	.58	3.13

STATION 110.70 (Interpolated Values at Standard Depths)

CREST: 28°36'N 118°18.5'W April 13, 1950 0742 GCT Wire angle: 20°
Sounding: 1,950 fms. Depth of observation: 1227 m. Weather: partly cloudy
Sea: very rough Wind: 300°, force 5

0	16.12	33.53	24.61	334.3	.0000	5.98	.36
10	16.15	33.53	24.60	335.1	.0336	5.47	.32
20	16.14	33.53	24.61	335.1	.0672	4.98	.36
30	16.11	33.53	24.61	334.9	.1009	4.96	.38
50	15.30	33.50	24.77	320.2	.1667	5.65	.38
75	13.17	33.36	25.11	288.4	.2432	5.24	.40
100	12.03	33.37	25.34	267.0	.3131	5.13	.62
150	9.88	33.59	25.89	215.0	.434	4.33	1.36
200	8.74	33.85	26.29	178.7	.534	3.97	1.85
250	8.70	34.13	26.51	158.4	.618	1.75	2.22
300	8.68	34.34	26.67	143.5	.694	.88	2.50
400	7.62	34.33	26.82	130.1	.832	.47	2.66
500	6.64	34.34	26.97	116.9	.957	.30	2.77
600	5.86	34.36	27.09	106.5	1.070	.35	2.93
700	5.39	34.37	27.15	100.8	1.174	.40	3.03
800	4.84	34.40	27.24	92.9	1.272	.43	3.09
1000	4.09	34.44	27.36	82.5	1.449	.63	3.12

STATION 110.80 (Interpolated Values at Standard Depths)

CREST: 28°16.0'N 118°57'W April 13, 1950 1333 GCT Wire angle: 32°
Sounding: 2,100 fms. Depth of observation: 1076 m. Weather: cloudy
Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.53	33.36	24.61	333.8	.0000	5.53	.42
10	15.51	33.37	24.63	332.9	.0335	5.65	.44
20	15.53	33.36	24.61	334.4	.0670	5.65	.44
30	15.52	33.35	24.61	335.0	.1006	5.66	.44
50	14.10	33.32	24.89	308.9	.1653	5.70	.44
75	12.90	33.32	25.13	286.2	.2401	5.80	.57
100	11.90	33.35	25.35	266.0	.3096	5.37	.83
150	9.98	33.59	25.88	216.7	.431	4.15	1.48
200	8.78	33.90	26.31	175.5	.530	3.28	1.97
250	8.31	34.04	26.49	159.3	.614	2.52	2.23
300	7.66	34.12	26.65	144.6	.691	1.80	2.47
400	6.87	34.27	26.88	123.9	.826	.68	2.92
500	6.23	34.31	27.00	113.8	.946	.49	2.99
600	5.42	34.33	27.12	103.2	1.055	.45	3.05
700	4.93	34.36	27.20	95.8	1.156	.40	3.14
800	4.53	34.41	27.28	88.1	1.249	.46	3.16
1000	3.91	34.46	27.39	79.0	1.418	.72	3.16

STATION 110.90 (Interpolated Values at Standard Depths)

CREST: 28°00'N 119°35'W April 13, 1950 1924 GCT Wire angle: 30°
Sounding: 2,200 fms. Depth of observation: 1111 m. Weather: overcast
Sea: very rough Wind: 320°, force 5

0	15.70	33.44	24.64	331.4	.0000	5.57	.47
10	15.68	33.46	24.66	329.8	.0332	5.65	.46
20	15.66	33.52	24.71	325.6	.0661	5.70	.47
30	15.63	33.53	24.72	324.3	.0987	5.75	.48
50	15.35	33.46	24.73	324.2	.1639	5.90	.42
75	14.79	33.46	24.85	313.1	.2440	5.85	.45
100	13.88	33.44	25.03	296.8	.3207	5.42	.51
150	10.82	33.45	25.62	240.9	.456	5.22	1.20
200	8.93	33.78	26.20	186.9	.554	3.77	1.80
250	8.16	34.02	26.50	158.4	.651	3.05	2.08
300	7.76	34.11	26.63	146.7	.728	2.50	2.30
400	6.90	34.21	26.83	128.9	.866	1.33	2.89
500	6.18	34.28	26.98	115.3	.990	.80	2.98
600	5.67	34.32	27.08	107.1	1.102	.71	2.94
700	5.19	34.39	27.19	96.8	1.205	.46	3.10
800	4.77	34.43	27.27	89.7	1.299	.38	3.24
1000	4.06	34.50	27.40	77.7	1.468	.80	3.19

STATION 110.100 (Interpolated Values at Standard Depths)

CREST: 27°38.5'N 120°17.5'W April 14, 1950 0115 GCT Wire angle: 35°
Sounding: 2,210 fms. Depth of observation: 968 m. Weather: cloudy
Sea: high Wind: 320°, force 5-6

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.79	33.80	24.67	328.8	.0000	5.41	.42
10	16.77	33.77	24.65	331.0	.0331	5.32	.40
20	16.75	33.84	24.70	325.8	.0661	5.50	.43
30	16.74	33.85	24.71	325.1	.0988	5.60	.44
50	16.65	33.86	24.74	322.8	.1639	5.88	.43
75	16.08	33.80	24.83	315.6	.2441	5.56	.41
100	15.00	33.73	25.01	298.6	.3214	5.35	.50
150	11.74	33.72	25.66	237.1	.456	4.52	1.36
200	10.55	34.06	26.14	192.5	.564	1.90	2.38
250	10.19	34.27	26.37	171.9	.656	1.43	2.64
300	9.83	34.36	26.50	160.5	.740	1.08	2.74
400	8.88	34.38	26.67	145.5	.894	.82	2.87
500	7.26	34.38	26.92	122.6	1.029	.67	3.07
600	6.22	34.38	27.06	110.0	1.147	.40	3.18
700	5.54	34.39	27.15	101.4	1.253	.35	3.22
800	5.00	34.40	27.22	94.8	1.352	.40	3.23
1000	(4.09)	(34.50)	(27.40)	(78.1)	(1.527)	(.58)	(3.18)

STATION 110.110 (Interpolated Values at Standard Depths)

CREST: 27°22'N 120°53'W April 14, 1950 0706 GCT Wire angle: 28°
Sounding: 2,200 fms. Depth of observation: 1251 m. Weather: cloudy
Sea: very high Wind: 340°, force 5

0	16.76	33.71	24.60	334.8	.0000	5.50	.42
10	16.76	33.71	24.60	335.1	.0336	5.43	.44
20	16.76	33.72	24.61	334.7	.0673	5.43	.43
30	16.74	33.74	24.63	333.1	.1008	5.48	.42
50	16.64	33.80	24.70	327.2	.1671	5.45	.42
75	16.49	33.84	24.76	321.5	.2487	5.47	.39
100	15.78	33.73	24.84	314.7	.3287	5.57	.43
150	12.85	33.64	25.39	263.6	.474	4.90	.84
200	9.99	33.78	26.02	203.7	.592	3.49	1.75
250	9.18	33.99	26.32	176.0	.688	2.57	2.32
300	8.69	34.18	26.55	155.3	.771	1.76	2.58
400	7.94	34.24	26.71	139.4	.920	.84	2.93
500	7.00	34.30	26.89	125.0	1.053	.51	3.06
600	6.32	34.33	27.00	115.0	1.123	.40	3.10
700	5.64	34.36	27.11	105.1	1.235	.40	3.21
800	5.00	34.39	27.22	95.5	1.336	.47	3.35
1000	4.10	34.47	27.38	80.5	1.514	.57	3.30

STATION 113.35 (Interpolated Values at Standard Depths)

CREST: 29°12.5'N 115°39'W April 11, 1950 1758 GCT Wire angle: 20°
Sounding: 850 fms. Depth of observation: 968 m. Weather: cloudy
Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.16	33.63	25.32	266.6	.0000	6.09	.48
10	13.08	33.60	25.31	267.5	.0268	5.83	.54
20	13.03	33.61	25.33	266.0	.0536	5.91	.57
30	12.99	33.61	25.34	265.5	.0803	5.85	.62
50	12.67	33.51	25.32	267.4	.1338	4.57	1.10
75	10.00	33.64	25.91	211.8	.1941	3.70	1.46
100	9.59	33.86	26.15	189.4	.2445	2.84	1.84
150	9.31	34.12	26.40	166.9	.334	1.93	2.15
200	8.68	34.15	26.52	155.6	.415	1.63	2.39
250	8.22	34.20	26.63	146.1	.491	1.30	2.53
300	7.94	34.26	26.72	138.3	.563	1.00	2.65
400	7.31	34.33	26.87	125.7	.696	.58	2.96
500	6.56	34.36	27.00	114.3	.817	.44	3.00
600	5.85	34.38	27.10	104.9	.928	.35	3.06
700	5.24	34.40	27.19	96.7	1.030	.35	3.18
800	4.83	34.43	27.26	90.5	1.124	.42	3.19
1000	(4.17)	(34.49)	(27.39)	(79.8)	(1.296)	-	-

STATION 117.35 (Interpolated Values at Standard Depths)

CREST: 28°37.0'N 115°16'W April 11, 1950 1127 GCT Wire angle: 5°
Sounding: 133 fms. Depth of observation: 203 m. Weather: partly cloudy
Sea: rough Wind: 290°, force 4

0	14.23	33.53	25.02	294.9	.0000	5.65	.43
10	14.15	33.57	25.07	290.6	.0294	5.85	.46
20	13.95	33.59	25.13	285.3	.0583	5.72	.53
30	13.68	33.61	25.20	278.7	.0866	5.30	1.00
50	9.90	33.78	26.03	200.0	.1347	3.10	1.86
75	9.30	33.89	26.22	182.1	.1828	2.80	2.01
100	9.32	34.09	26.38	168.2	.2268	2.16	2.33
150	9.66	34.35	26.52	155.3	.308	.85	2.74
200	9.59	34.46	26.62	147.0	.384	.75	2.74

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°04'N 114°54.5'W April 10, 1950 1655 GCT Wire angle: 8°
Sounding: 47 fms. Depth of observation: 59 m. Weather: cloudy
Sea: rough Wind: 360°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.91	33.60	25.14	283.2	.0000	5.48	.56
10	13.88	33.60	25.15	282.9	.0284	5.43	.50
20	13.70	33.60	25.19	279.5	.0567	5.54	.54
30	13.00	33.57	25.30	268.7	.0842	4.90	.80
50	10.62	33.60	25.77	224.4	.1337	3.65	1.40

STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°39.5'N 115°32'W April 10, 1950 1115 GCT Wire angle: 33°
Sounding: 1,400 fms. Depth of observation: 1096 m. Weather: partly cloudy
Sea: high Wind: 320°, force 6

0	15.06	33.57	24.88	308.7	.0000	6.01	.36
10	15.00	33.58	24.90	307.0	.0309	5.40	.36
20	14.98	33.58	24.90	306.8	.0617	5.38	.50
30	14.75	33.57	24.94	303.1	.0923	5.32	.64
50	11.77	33.54	25.52	248.7	.1478	5.10	.95
75	10.62	33.55	25.74	228.7	.2078	3.27	1.42
100	10.16	33.94	26.12	192.6	.2608	3.03	1.94
150	9.54	34.22	26.44	162.9	.350	1.80	2.20
200	8.86	34.25	26.57	151.0	.429	1.66	2.46
250	8.66	34.38	26.71	139.3	.502	.95	2.67
300	8.33	34.40	26.77	133.8	.571	.58	2.82
400	7.52	34.44	26.93	120.4	.699	.35	2.94
500	6.64	34.43	27.04	110.4	.816	.31	2.95
600	5.91	34.43	27.14	102.0	.923	.35	2.96
700	5.33	34.47	27.24	92.8	1.021	.34	3.14
800	4.84	34.49	27.31	86.2	1.112	.35	3.16
1000	4.08	34.51	27.41	77.3	1.277	.63	3.10

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°31'N 115°54'W April 10, 1950 0525 GCT Wire angle: 34°
Sounding: 2,225 fms. Depth of observation: 1057 m. Weather: partly cloudy
Sea: very rough Wind: 360°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	15.64	33.59	24.76	319.4	.0000	5.40	.38
10	15.59	33.58	24.77	319.3	.0321	5.48	.40
20	15.60	33.59	24.77	319.2	.0641	5.63	.38
30	15.58	33.58	24.77	319.7	.0962	5.85	.38
50	14.00	33.47	25.03	295.9	.1581	5.92	.40
75	12.05	33.45	25.40	261.0	.2281	5.35	1.00
100	10.92	33.68	25.78	224.7	.2892	3.35	1.53
150	9.56	34.09	26.34	172.9	.389	2.25	2.03
200	8.54	34.13	26.53	155.1	.472	1.81	2.38
250	7.88	34.13	26.63	146.2	.548	1.74	2.46
300	7.62	34.16	26.69	141.2	.620	1.35	2.59
400	7.24	34.31	26.86	126.2	.755	.58	2.93
500	6.69	34.36	26.98	116.1	.877	.40	2.96
600	5.99	34.39	27.09	106.0	.989	.40	3.02
700	5.27	34.42	27.21	95.7	1.091	.33	3.12
800	4.75	34.44	27.28	88.8	1.184	.40	3.12
1000	4.02	34.48	27.39	78.9	1.354	.59	3.12

STATION 120.60 (Interpolated Values at Stardard Depths)

CREST: 27°13.5'N 116°33'W April 9, 1950 2345 GCT Wire angle: 28°
Sounding: 2,150 fms. Depth of observation: 1156 m. Weather: partly cloudy
Sea: high Wind: 340°, force 5

0	16.94	33.69	24.54	340.4	.0000	5.52	.42
10	16.90	33.69	24.55	339.8	.0342	5.35	.42
20	16.62	33.67	24.60	335.2	.0680	5.18	.44
30	16.25	33.63	24.66	330.5	.1015	5.23	.44
50	15.52	33.57	24.78	319.6	.1608	5.80	.40
75	13.81	33.41	25.02	297.2	.2443	5.80	.44
100	12.60	33.56	25.38	263.8	.3149	5.35	.64
150	10.49	33.71	25.88	216.3	.436	5.06	1.88
200	10.08	34.14	26.29	178.5	.535	3.57	2.27
250	9.68	34.35	26.52	157.6	.620	2.67	2.59
300	8.91	34.41	26.69	141.8	.695	2.07	2.82
400	7.70	34.38	26.85	127.6	.831	.58	2.95
500	6.86	34.41	26.99	114.9	.953	.40	2.98
600	6.14	34.40	27.08	107.3	1.065	.32	3.00
700	5.50	34.42	27.18	98.7	1.169	.35	3.12
800	5.00	34.44	27.26	91.8	1.266	.35	3.20
1000	4.15	34.49	27.39	79.5	1.439	.52	3.20

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°51.5'N 117°14'W April 9, 1950 1702, 1747 GCT Wire angle: 23°, 24° Sounding: 2,000 fms. Depth of observation: 916, 1223 m. Weather: partly cloudy Sea: very rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.47	33.60	24.58	336.6	.0000	5.24	.40
10	16.42	33.62	24.61	334.3	.0337	5.50	.38
20	16.25	33.57	24.61	334.6	.0673	5.58	.39
30	15.63	33.53	24.72	324.3	.1003	5.57	.40
50	15.44	33.52	24.75	321.7	.1653	5.40	.40
75	15.52	33.64	24.83	315.1	.2453	5.43	.37
100	13.45	33.55	25.20	280.5	.3202	5.62	.60
150	11.10	33.65	25.73	231.2	449	5.45	1.15
200	10.02	33.89	26.10	196.2	.557	2.71	1.86
250	9.38	34.18	26.44	165.3	.648	1.65	2.37
300	9.07	34.34	26.61	149.5	.727	1.13	2.65
400	8.57	34.45	26.78	135.6	.871	.35	2.91
500	7.25	34.42	26.95	119.6	.999	.32	3.06
600	5.87	34.39	27.11	104.4	1.112	.45	3.13
700	5.08	34.44	27.24	91.7	1.211	.37	3.20
800	4.62	34.47	27.32	84.8	1.301	.45	3.22
1000	3.97	34.53	27.44	74.6	1.462	.85	3.17

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°32.0'N 117°51.0'W April 9, 1950 1147 GCT Wire angle: 17° Sounding: 1,980 fms. Depth of observation: 1157 m. Weather: partly cloudy Sea: very rough Wind: 300°, force 3

0	16.81	33.62	24.52	342.6	.0000	4.89	.39
10	16.85	33.64	24.53	342.4	.0344	5.43	.38
20	16.70	33.59	24.52	342.9	.0688	5.10	.40
30	15.84	33.59	24.72	324.6	.1023	5.05	.41
50	15.17	33.62	24.89	308.6	.1659	5.07	.38
75	12.92	33.38	25.18	282.2	.2402	5.20	.53
100	12.13	33.62	25.51	250.5	.3072	4.88	.95
150	11.79	33.78	25.70	233.5	.429	3.75	1.66
200	11.30	33.97	25.94	211.9	.541	2.82	1.96
250	9.10	34.18	26.48	160.7	.635	1.80	2.32
300	8.16	34.27	26.70	140.9	.711	1.10	2.69
400	7.24	34.33	26.88	124.6	.845	.65	2.86
500	6.40	34.35	27.01	113.0	.965	.40	3.04
600	5.76	34.39	27.12	103.2	1.074	.40	3.00
700	5.21	34.42	27.21	94.9	1.174	.40	3.12
800	4.70	34.46	27.30	86.7	1.265	.40	3.22
1000	4.01	34.51	27.42	76.5	1.430	.61	3.16

STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°12.5'N 118°29'W April 9, 1950 0632 GCT Wire angle: 0°
Sounding: 2,200 fms. Depth of observation: 1077 m. Weather: cloudy
Sea: rough Wind: variable, force 0-1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm^3)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.42	33.44	24.47	347.2	.0000	5.45	.42
10	15.60	33.42	24.64	331.3	.0341	5.62	.41
20	15.42	33.40	24.67	329.1	.0672	5.66	.41
30	15.26	33.39	24.70	326.7	.1001	5.69	.41
50	14.56	33.36	24.82	315.1	.1646	5.73	.42
75	14.08	33.31	24.89	309.9	.2432	5.82	.46
100	12.77	33.28	25.13	287.2	.3183	5.92	.59
150	11.18	33.54	25.63	240.6	.451	4.50	1.10
200	10.09	34.01	26.18	188.3	.559	2.45	2.13
250	9.14	34.16	26.46	163.0	.648	1.70	2.46
300	8.40	34.23	26.63	147.3	.726	1.32	2.58
400	7.54	34.29	26.81	131.9	.867	.85	2.78
500	6.53	34.34	26.98	115.6	.991	.35	3.00
600	5.94	34.38	27.09	106.1	1.103	.40	3.08
700	5.38	34.42	27.19	97.0	1.206	.39	3.08
800	4.86	34.45	27.28	89.3	1.300	.40	3.09
1000	4.06	34.49	27.40	78.5	1.469	.55	3.08

STATION 120.100 (Interpolated Values at Standard Depths)

CREST: 25°52.5'N 119°06'W April 9, 1950 0117 GCT Wire angle: 3°
Sounding: 2,290 fms. Depth of observation: 1031 m. Weather: partly cloudy
Sea: very rough Wind: 320°, force 2

0	17.70	33.78	24.43	351.1	.0000	5.40	.40
10	17.12	33.77	24.56	338.9	.0346	5.48	.40
20	16.64	33.78	24.68	327.7	.0681	5.46	.40
30	16.45	33.78	24.73	323.9	.1008	5.45	.40
50	16.22	33.75	24.76	321.4	.1657	5.60	.42
75	15.45	33.66	24.86	312.3	.2453	5.60	.42
100	13.99	33.71	25.21	279.3	.3197	5.35	.58
150	11.20	33.69	25.74	229.9	.448	4.56	1.19
200	10.10	34.01	26.18	188.6	.553	2.60	2.10
250	9.43	34.24	26.47	161.9	.642	1.60	2.45
300	8.85	34.30	26.61	149.1	.720	1.32	2.56
400	7.75	34.34	26.81	131.3	.861	.70	2.86
500	6.84	34.42	27.01	113.9	.985	.32	3.09
600	6.12	34.38	27.07	108.5	1.097	.38	3.10
700	5.50	34.40	27.16	100.1	1.202	.40	3.14
800	4.91	34.44	27.26	90.8	1.299	.40	3.22
1000	4.18	34.49	27.38	80.1	1.472	.58	-

STATION 120.110 (Interpolated Values at Standard Depths)

CREST: 25°31'N 119°46'W April 8, 1950 1740, 2002 GCT Wire angle: 31°,23°
Sounding: 2,300 fms. Depth of observation: 1115, 2380 m. Weather: cloudy
Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	18.21	33.98	24.46	348.3	.0000	5.33	.38
10	17.95	33.91	24.47	347.8	.0349	5.32	.38
20	17.35	33.89	24.60	335.6	.0693	5.30	.39
30	17.40	33.90	24.60	336.3	.1030	5.30	.39
50	17.85	34.09	24.63	333.6	.1703	5.32	.37
75	17.30	33.84	24.57	339.8	.2550	5.44	.34
100	15.57	33.80	24.94	305.2	.3361	5.45	.34
150	11.64	33.81	25.75	228.7	.470	3.02	.39
200	9.93	34.07	26.26	181.2	.574	2.32	1.70
250	9.10	34.17	26.48	161.4	.660	1.47	1.97
300	8.47	34.25	26.63	146.9	.738	1.00	2.14
400	7.59	34.36	26.85	127.3	.876	.65	2.62
500	6.65	34.37	26.99	114.8	.998	.48	2.90
600	5.95	34.37	27.08	106.9	1.110	.58	2.97
700	5.36	34.41	27.19	97.5	1.213	.42	2.91
800	4.84	34.46	27.29	88.4	1.307	.41	2.98
1000	4.15	34.50	27.40	78.9	1.476	.68	3.23

STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°17.0'N 114°51'W April 5, 1950 1224 GCT Wire angle: 38°
Sounding: 450 fms. Depth of observation: 542 m. Weather: cloudy
Sea: rough Wind: 320°, force 2

0	14.72	33.57	24.95	301.7	.0000	5.27	.30
10	14.66	33.57	24.96	300.8	.0303	5.30	.34
20	14.56	33.57	24.98	299.7	.0604	5.20	.38
30	14.29	33.59	25.06	292.4	.0901	5.10	.40
50	12.50	33.57	25.40	259.8	.1456	4.55	.60
75	10.65	33.58	25.75	227.0	.2068	3.70	1.29
100	10.12	33.88	26.08	196.4	.2601	3.30	1.85
150	9.31	34.09	26.38	168.9	.352	2.00	2.17
200	9.26	34.24	26.50	158.0	.434	1.40	2.36
250	9.43	34.43	26.62	147.7	.511	.56	2.60
300	8.90	34.40	26.69	142.4	.584	.48	2.63
400	7.81	34.41	26.86	127.0	.720	.25	2.90
500	6.83	34.40	26.99	115.2	.842	.25	3.00

STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 27°02'N 115°30'W April 5, 1950 1804 GCT Wire angle: 18°
Sounding: 1,790 fms. Depth of observation: 1169 m. Weather: overcast
Sea: very rough Wind: 320°, force 3-4

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 s$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.57	33.58	24.77	318.5	.0000	5.04	.45
10	15.50	33.58	24.79	317.3	.0319	5.37	.42
20	15.35	33.60	24.84	313.1	.0636	5.28	.44
30	14.97	33.59	24.91	306.2	.0947	5.15	.50
50	12.67	33.53	25.34	265.9	.1522	4.75	.88
75	10.45	33.67	25.86	217.0	.2129	3.50	1.50
100	9.96	33.85	26.08	196.1	.2648	3.00	1.83
150	9.69	34.25	26.44	163.2	.355	1.67	2.27
200	9.66	34.43	26.58	150.4	.434	.67	2.65
250	9.23	34.38	26.62	148.2	.509	.60	2.80
300	8.58	34.35	26.70	141.1	.582	.55	2.85
400	7.34	34.34	26.87	125.3	.717	.55	2.91
500	6.70	34.35	26.97	117.0	.839	.25	3.06
600	5.89	34.33	27.06	109.0	.953	.32	3.10
700	5.36	34.41	27.19	97.5	1.057	.32	3.20
800	4.87	34.45	27.28	89.4	1.151	.34	3.24
1000	4.09	34.45	27.36	81.7	1.324	.56	3.24

STATION 123.60 (Interpolated Values at Standard Depths)

CREST: 26°38'N 116°09'W April 5, 1950 2344 GCT Wire angle: 15°
Sounding: 2,200 fms. Depth of observation: 1171 m. Weather: overcast
Sea: very rough Wind: 320°, force 3

0	16.37	33.60	24.60	334.6	.0000	5.20	.34
10	16.21	33.62	24.66	329.9	.0334	5.17	.36
20	16.25	33.72	24.73	323.5	.0662	5.27	.35
30	16.20	33.70	24.72	324.2	.0987	5.40	.35
50	15.76	33.61	24.75	321.7	.1636	5.64	.35
75	15.00	33.55	24.88	310.9	.2431	5.43	.37
100	13.07	33.42	25.18	282.7	.3178	5.53	.58
150	10.40	33.64	25.84	219.9	.444	3.55	1.47
200	9.40	33.93	26.28	179.4	.545	2.60	2.12
250	8.95	34.18	26.50	158.6	.630	1.77	2.58
300	8.74	34.29	26.63	148.1	.707	1.00	2.75
400	8.31	34.42	26.79	133.8	.849	.35	3.00
500	7.07	34.39	26.95	119.3	.977	.31	3.10
600	6.04	34.39	27.09	106.6	1.091	.50	3.18
700	5.44	34.42	27.18	97.9	1.194	.40	3.19
800	5.00	34.46	27.27	90.4	1.289	.33	3.19
1000	4.26	34.50	27.38	80.1	1.462	.45	3.15

STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°43'N 114°29.5'W April 6, 1950 1514 GCT Wire angle: 13°
Sounding: 1,950 fms. Depth of observation: 1173 m. Weather: overcast
Sea: very rough Wind: 330°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10⁵ δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	17.17	33.95	24.69	326.6	.0000	5.30	.39
10	17.05	33.95	24.72	324.2	.0327	5.33	.40
20	17.05	33.95	24.72	324.4	.0652	5.07	.41
30	17.05	33.93	24.70	326.2	.0979	5.06	.40
50	16.05	33.82	24.85	312.8	.1621	5.35	.38
75	14.35	33.79	25.20	280.1	.2366	3.10	1.20
100	13.12	34.07	25.67	235.9	.3016	2.27	1.72
150	11.64	34.33	26.16	190.5	.409	1.20	2.07
200	10.24	34.41	26.47	161.4	.497	.96	2.52
250	9.60	34.44	26.60	149.7	.576	.75	2.62
300	9.04	34.45	26.70	141.0	.649	.55	2.67
400	7.87	34.42	26.86	127.0	.784	.33	2.69
500	6.95	34.43	27.00	114.7	.906	.26	2.84
600	6.12	34.42	27.10	105.6	1.017	.35	2.86
700	5.45	34.43	27.19	97.3	1.119	.33	2.90
800	5.00	34.43	27.25	92.5	1.215	.30	2.90
1000	4.13	34.50	27.40	78.7	1.388	.53	2.88

STATION 127.50 (Interpolated Values at Standard Depths)

CREST: 26°21.5'N 115°11.5'W April 6, 1950 0959 GCT Wire angle: 15°
Sounding: 1.750 fms. Depth of observation: 1145 m. Weather: overcast
Sea: very rough Wind: 340°, force 3-4

0	15.87	33.60	24.72	323.6	.0000	5.60	.42
10	15.82	33.62	24.75	321.3	.0324	5.55	.38
20	15.60	33.59	24.77	319.1	.0645	5.55	.40
30	15.34	33.57	24.82	315.4	.0964	5.59	.44
50	14.57	33.55	24.97	301.5	.1584	5.65	.46
75	12.75	33.51	25.31	269.5	.2301	4.95	.70
100	10.92	33.56	25.69	233.6	.2934	4.10	1.38
150	10.25	34.12	26.24	181.9	.398	1.85	2.09
200	10.48	34.43	26.44	164.1	.485	.87	2.52
250	10.00	34.41	26.51	158.4	.566	.49	2.63
300	9.00	34.37	26.65	146.3	.643	.42	2.68
400	7.57	34.35	26.85	127.9	.781	.45	2.78
500	6.72	34.42	27.02	112.2	.902	.29	2.93
600	5.97	34.43	27.13	102.8	1.011	.38	3.12
700	5.34	34.46	27.23	93.6	1.110	.32	3.12
800	4.88	34.47	27.29	88.1	1.202	.30	3.12
1000	4.04	34.48	27.39	79.1	1.371	.50	3.10

STATION 127.60 (Interpolated Values at Standard Depths)

CREST: 26°04'N 115°47.0'W April 6, 1950 0444 GCT Wire angle: 10°
Sounding: 2,120 fms. Depth of observation: 1201 m. Weather: overcast
Sea: very rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.02	33.64	24.72	324.0	.0000	4.70	.44
10	15.95	33.64	24.73	322.7	.0325	4.95	.44
20	15.94	33.65	24.74	322.0	.0648	4.65	.50
30	15.86	33.66	24.77	319.8	.0970	4.65	.52
50	15.17	33.51	24.81	316.6	.1610	5.54	.55
75	14.73	33.52	24.91	307.7	.2395	5.18	.78
100	13.04	33.49	25.24	276.8	.3130	3.75	.80
150	10.53	34.04	26.13	192.8	.431	2.22	1.40
200	10.42	34.38	26.42	166.7	.522	1.22	2.68
250	9.58	34.36	26.55	155.1	.603	.75	2.90
300	8.92	34.34	26.63	147.3	.679	.63	3.02
400	7.86	34.31	26.77	135.2	.821	.47	3.10
500	6.82	34.35	26.95	119.0	.950	.25	3.13
600	6.10	34.45	27.13	103.2	1.062	.30	3.18
700	5.51	34.44	27.19	97.2	1.163	.30	3.18
800	5.00	34.43	27.25	92.5	1.259	.33	3.19
1000	4.16	34.42	27.33	84.9	1.438	.54	3.18

STATION 130.35 (Interpolated Values at Standard Depths)

CREST: 26°16'N 113°45'W April 6, 1950 2147 GCT Wire angle: 0°
Sounding: 320 fms. Depth of observation: 506 m. Weather: overcast
Sea: rough Wind: 320°, force 2

0	16.01	(33.62)	24.70	325.2	.0000	5.85	.31
10	15.06	33.62	24.92	305.1	.0316	6.00	.32
20	13.95	33.62	25.15	283.1	.0612	5.70	.45
30	13.00	33.62	25.34	265.0	.0887	4.95	.88
50	11.15	33.64	25.71	230.7	.1385	4.12	1.20
75	10.56	33.60	25.78	224.1	.1957	3.15	1.54
100	10.94	33.78	25.86	217.6	.2512	1.48	2.18
150	10.63	34.23	26.26	180.4	.351	.70	2.48
200	10.31	34.39	26.44	164.0	.438	.35	2.56
250	9.65	34.50	26.64	146.1	.516	.43	2.60
300	9.13	34.51	26.71	137.9	.588	.35	2.63
400	7.85	34.43	26.87	126.1	.721	.25	2.71
500	6.75	34.46	27.05	109.8	.840	.22	2.78

STATION 130.40 (Interpolated Values at Standard Depths)

CREST: 26°09'N 114°07.5'W April 7, 1950 0302 GCT Wire angle: 15°
Sounding: 1,800 fms. Depth of observation: 1145 m. Weather: partly cloudy
Sea: rough Wind: 260°, force 3

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5\varepsilon$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.75	33.58	24.73	322.4	.0000	5.68	.39
10	15.43	33.55	24.78	318.2	.0322	5.69	.38
20	15.40	33.56	24.79	317.1	.0641	5.72	.38
30	15.40	33.59	24.82	315.2	.0958	5.72	.39
50	13.60	33.62	25.22	276.9	.1553	5.58	.63
75	12.35	33.53	25.40	260.6	.2229	4.65	1.00
100	10.71	33.73	25.86	217.4	.2830	3.40	1.58
150	10.27	34.16	26.27	179.3	.383	1.61	2.17
200	9.78	34.34	26.49	159.1	.468	.40	2.56
250	9.35	34.41	26.62	147.9	.545	.43	2.72
300	8.87	34.43	26.71	139.8	.618	.48	2.80
400	7.68	34.40	26.87	125.7	.752	.68	2.87
500	6.62	34.42	27.04	110.8	.871	.27	3.00
600	6.05	34.40	27.09	106.1	.980	.25	2.99
700	5.44	34.42	27.19	97.7	1.083	.27	3.05
800	4.83	34.46	27.29	88.3	1.177	.33	3.08
1000	4.14	34.47	27.37	81.1	1.348	.57	3.00

STATION 130.50 (Interpolated Values at Standard Depths)

CREST: 25°49'N 114°46.5'W April 7, 1950 0817 GCT Wire angle: 7°
Sounding: 1,850 fms. Depth of observation: 1203 m. Weather: partly cloudy
Sea: moderate Wind: 220°, force 1-2

0	16.68	33.77	24.67	328.7	.0000	5.43	.39
10	16.55	33.75	24.68	327.6	.0330	5.56	.35
20	16.50	33.77	24.71	325.3	.0657	5.67	.37
30	16.45	33.76	24.71	325.2	.0984	5.70	.38
50	15.52	33.68	24.86	311.5	.1624	5.70	.36
75	14.57	33.58	24.99	300.0	.2393	6.05	.46
100	12.33	33.58	25.44	257.0	.3093	4.52	1.20
150	11.73	34.20	26.04	201.6	.425	1.73	2.23
200	11.20	34.36	26.26	181.6	.521	.42	2.71
250	10.45	34.45	26.46	163.2	.608	.40	2.78
300	9.62	34.49	26.64	147.3	.686	.36	2.81
400	8.26	34.51	26.87	126.5	.824	.25	2.90
500	7.07	34.40	26.96	118.5	.948	.20	3.04
600	6.17	34.36	27.05	110.6	1.063	.26	3.12
700	5.45	34.42	27.18	97.9	1.169	.32	3.18
800	4.92	34.49	27.30	87.3	1.262	.40	3.22
1000	4.19	34.51	27.40	78.5	1.430	.49	3.17

STATION 130.60 (Interpolated Values at Standard Depths)

CREST: 25°29'N 115°24'W April 7, 1950 1332 GCT Wire angle: 4°
Sounding: 2,100 fms. Depth of observation: 1217 m. Weather: overcast
Sea: moderate Wind: 150°, force 2

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	10^5 δ	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	18.15	34.19	24.63	331.9	.0000	5.06	.42
10	18.12	34.18	24.63	332.2	.0333	5.46	.40
20	18.09	34.17	24.63	332.6	.0667	5.00	.36
30	18.04	34.15	24.63	333.3	.1001	4.73	.36
50	17.55	34.11	24.72	325.3	.1663	5.16	.39
75	14.45	33.86	25.23	277.0	.2420	3.80	1.20
100	12.85	34.08	25.73	229.9	.3058	2.19	1.88
150	11.38	34.39	26.25	181.5	.409	1.07	2.46
200	10.83	34.55	26.47	161.3	.496	.60	2.66
250	10.02	34.52	26.59	150.7	.574	.50	2.74
300	9.27	34.49	26.70	141.7	.648	.50	2.82
400	8.22	34.47	26.84	128.7	.784	.32	2.88
500	7.10	34.45	26.99	115.3	.907	.30	2.96
600	6.21	34.43	27.10	106.0	1.019	.30	3.00
700	5.58	34.45	27.19	97.3	1.121	.30	3.10
800	5.02	34.47	27.28	89.9	1.216	.32	3.21
1000	4.14	34.50	27.40	78.8	1.387	.55	3.13

STATION 130.70 (Interpolated Values at Standard Depths)

CREST: 25°12'N 116°03.0'W April 7, 1950 1847 GCT Wire angle: 2°
Sounding: 2,050 fms. Depth of observation: 1212 m. Weather: overcast
Sea: moderate Wind: 200°, force 1-2

0	18.23	34.13	24.57	338.1	.0000	5.22	.48
10	18.07	34.14	24.62	333.9	.0337	5.28	.48
20	18.06	34.14	24.62	334.1	.0673	5.28	.47
30	18.06	34.12	24.60	335.9	.1009	5.30	.45
50	16.95	33.93	24.73	324.5	.1673	5.37	.44
75	14.30	33.67	25.12	288.0	.2443	5.54	.58
100	11.65	33.62	25.60	241.8	.3109	4.00	1.30
150	9.97	33.99	26.19	186.9	.419	2.45	2.09
200	9.86	34.29	26.44	164.0	.507	1.35	2.64
250	9.55	34.38	26.56	153.3	.587	.81	2.86
300	8.97	34.42	26.69	142.2	.662	.50	2.95
400	7.89	34.43	26.87	126.6	.797	.28	3.14
500	6.85	34.42	27.00	114.1	.918	.25	3.20
600	5.98	34.40	27.10	105.1	1.029	.31	3.13
700	5.31	34.42	27.20	96.2	1.131	.32	3.22
800	4.87	34.46	27.29	88.7	1.224	.32	3.40
1000	4.14	34.49	27.39	79.6	1.394	.50	3.56

STATION 130.80 (Interpolated Values at Standard Depths)

CREST: 24°49'N 116°40'W April 8, 1950 0002 GCT Wire angle: 0°
Sounding: 2,150 fms. Depth of observation: 1210 m. Weather: cloudy
Sea: moderate Wind: 240°, force 1

Depth (m)	T (°C)	S (‰)	σ t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	18.04	33.91	24.45	349.5	.0000	5.38	.38
10	17.68	33.89	24.52	343.0	.0348	5.87	.38
20	17.62	33.88	24.53	342.5	.0692	5.73	.36
30	17.55	33.87	24.54	342.0	.1035	5.62	.36
50	17.26	33.84	24.58	338.2	.1719	5.54	.37
75	16.08	33.75	24.79	319.4	.2546	5.50	.43
100	13.98	33.60	25.13	287.3	.3309	5.38	.54
150	10.80	33.75	25.86	218.5	.458	3.50	1.70
200	10.17	34.23	26.34	173.5	.557	1.65	2.42
250	9.22	34.22	26.49	159.8	.641	1.28	2.61
300	8.40	34.20	26.61	149.5	.719	1.14	2.71
400	7.65	34.36	26.84	128.2	.859	.56	2.94
500	6.48	34.34	26.99	114.8	.981	.32	3.10
600	6.07	34.39	27.08	107.1	1.093	.25	3.10
700	5.54	34.45	27.20	97.0	1.196	.26	3.15
800	5.02	34.49	27.29	88.4	1.290	.30	3.20
1000	4.24	34.54	27.42	77.2	1.457	.49	3.24

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