DRAFTING ROOM
NOT CORRECTED

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

Physical and Chemical Data

Cruise 18

Marine Life Research Program

6-22 September 1950

Prepared by

Marine Life Research Program Division of Oceanography

Sponsored by

Marine Research Committee

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Scripps institution of oceanography/Physical and chemical data report no. 18

NAVY ELECTRONICS LABORATORY
RETURN TO S I O

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTE OF OCEANOGRAPHY

P H Y S I C A L A N D C H E M I C A L D A T A

CRUISE 18 - September 6 to 22, 1950

MARINE LIFE RESEARCH PROGRAM

Report prepared November 21, 1951

Physical and Chemical Data Report No. 18

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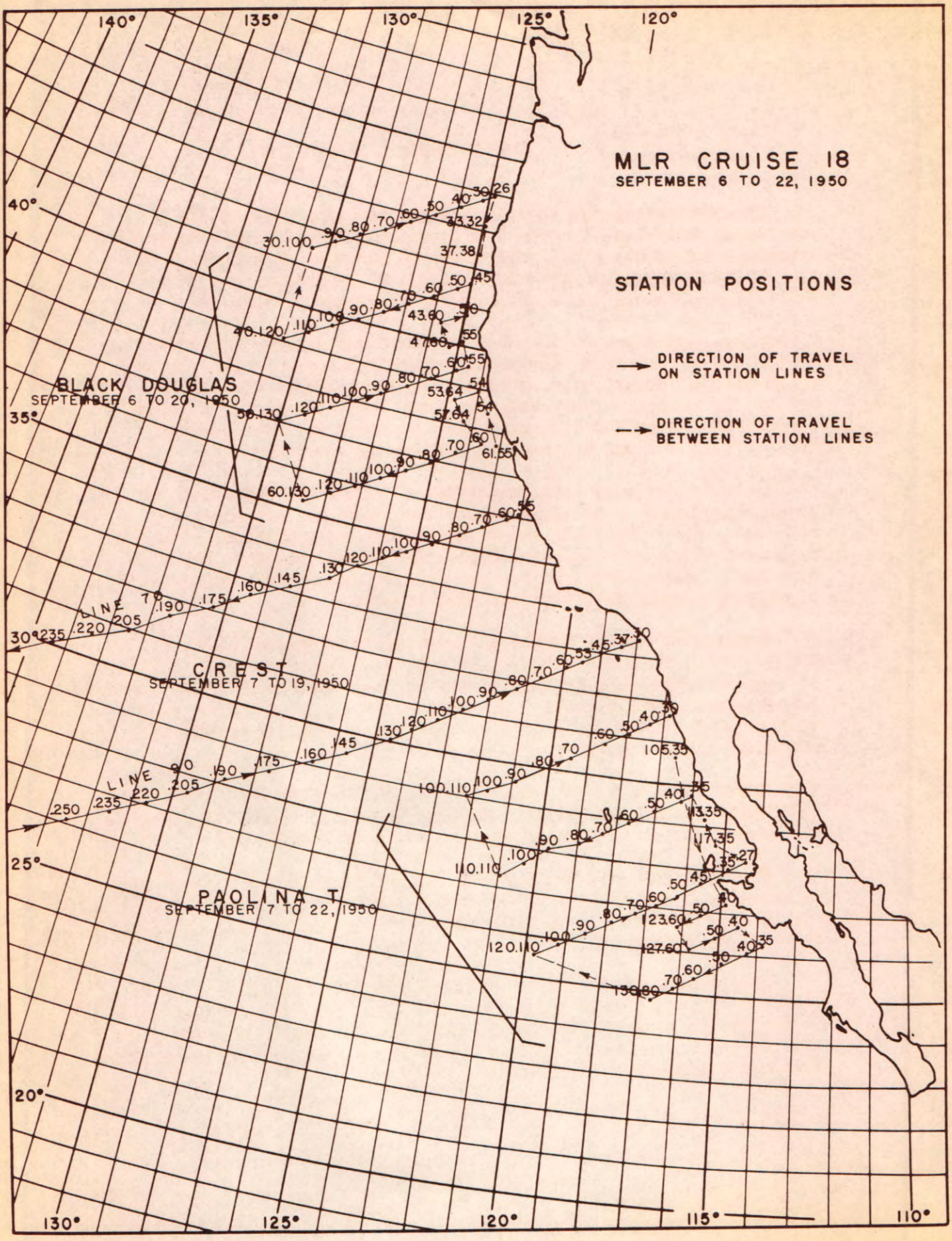
1. MLR Cruise 18. Station Positions

2. Horizontal Distribution of Dynamic Height Anomaly (0 over 1000 d-bar) Correction for Tidal Effect

3. Horizontal Distribution of Temperature at the Surface

4. Horizontal Distribution of Salinity at the Surface

5. Horizontal Distribution of Temperature at 30 meters


MLR CRUISE 18
SEPTEMBER 6 TO 22, 1950
STATION POSITIONS
DIRECTION OF TRAVEL ON STATION LINES
DIRECTION OF TRAVEL BETWEEN STATION LINES
BLACK DOUGLAS
SEPTEMBER 6 TO 20, 1950
CREST
SEPTEMBER 7 TO 19, 1950
PAOLINA T
SEPTEMBER 7 TO 22, 1950
LINE 70
LINE 90
140°
135°
130°
125°
120°
115°
110°
40°
35°
30°
25°
20°

INTRODUCTION

The data presented in this report were collected on the eighteenth full-scale cruise conducted in the Marine Life Research Program. The three ships participating were the MV PAOLINA T 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. On the charts of horizontal distribution a circle is drawn around the station dot if the quantity is missing for that station. An "x" is drawn through the station dot if the value observed does not conform to the field and was not used in drawing the contours.

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

Because of Nansen bottle pretripping on stations 30.40, 61.30, 60.55, 70.70, 70.280 D, 100.60, 100.70, 110.50, 123.40, and 127.50, it was difficult to ascertain depths of observations on those stations. In processing data given in this report and in all previous reports of this series an effort has been made to correct for pretripping wherever it has occurred.

Nansen bottle No. 24, used on nearly all CREST stations at the 1,000-meter level, is believed to have closed improperly. Salinity, oxygen and phosphate samples were rejected or modified.

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

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

PERSONNEL

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

Oceanographers

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

Marine Superintendent

Stose, Clemens W.

Ships' Captains

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

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Eckles, Howard H., Marine Biologist in Charge
Colter, John C., Chemistry Aid
Gossett, David A., Marine Technician, Scripps Institution
Zeisler, James F., Student, Antioch College

MV CREST

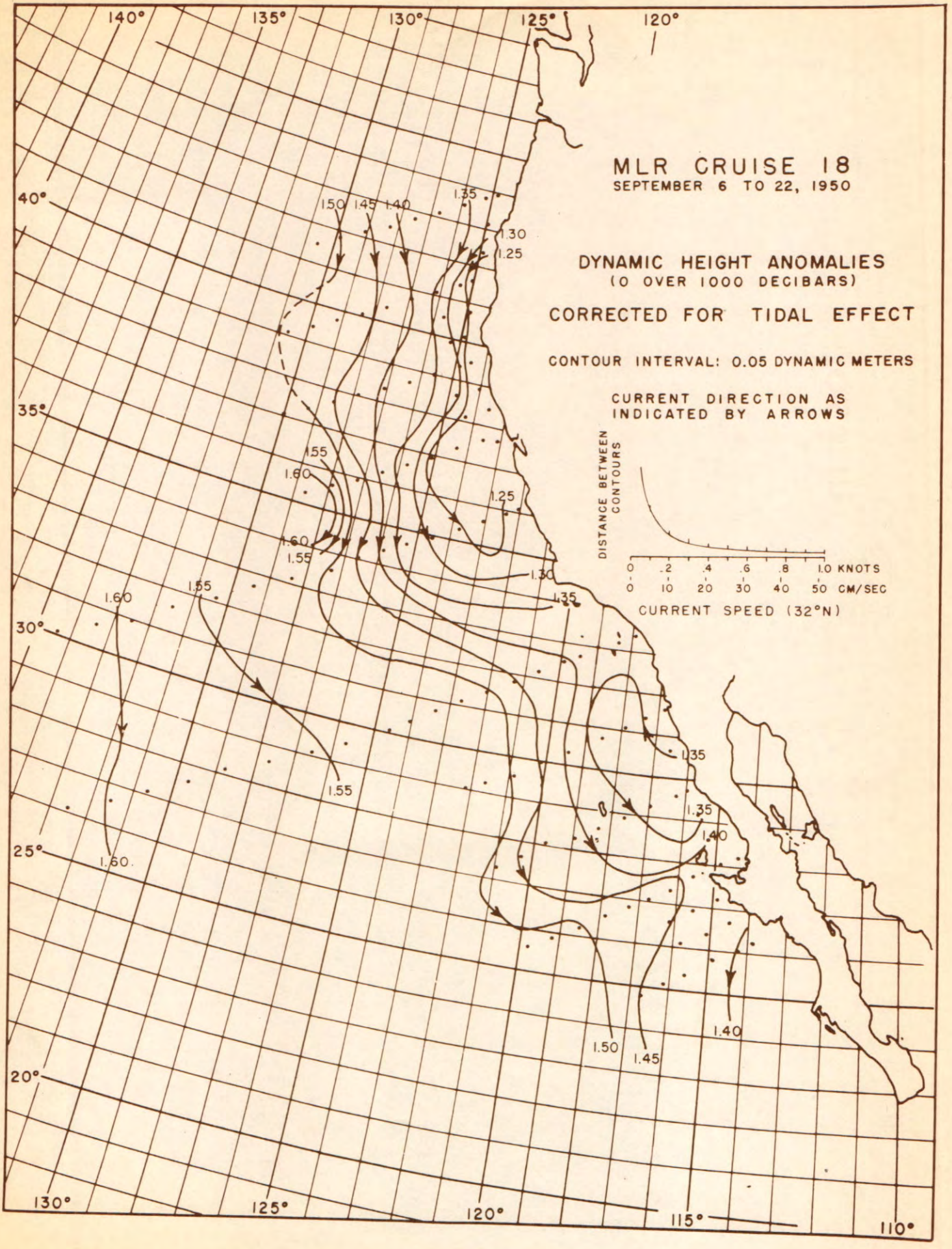
Marquardt, Robert L., Senior Marine Technician
Sibley, Slade W., Marine Technician
Koide, Minoru, Marine Technician, Chemical
Barkley, Richard A., Laboratory Technician
Kramer, David, Marine Biologist, U.S. Fish & Wildlife Service
Hicks, Steacy, Meteorologist, U.C.L.A.
Kartrude, Robert C., Meteorologist, U.C.L.A.
Thompson, Harold, Meteorologist, U.C.L.A.

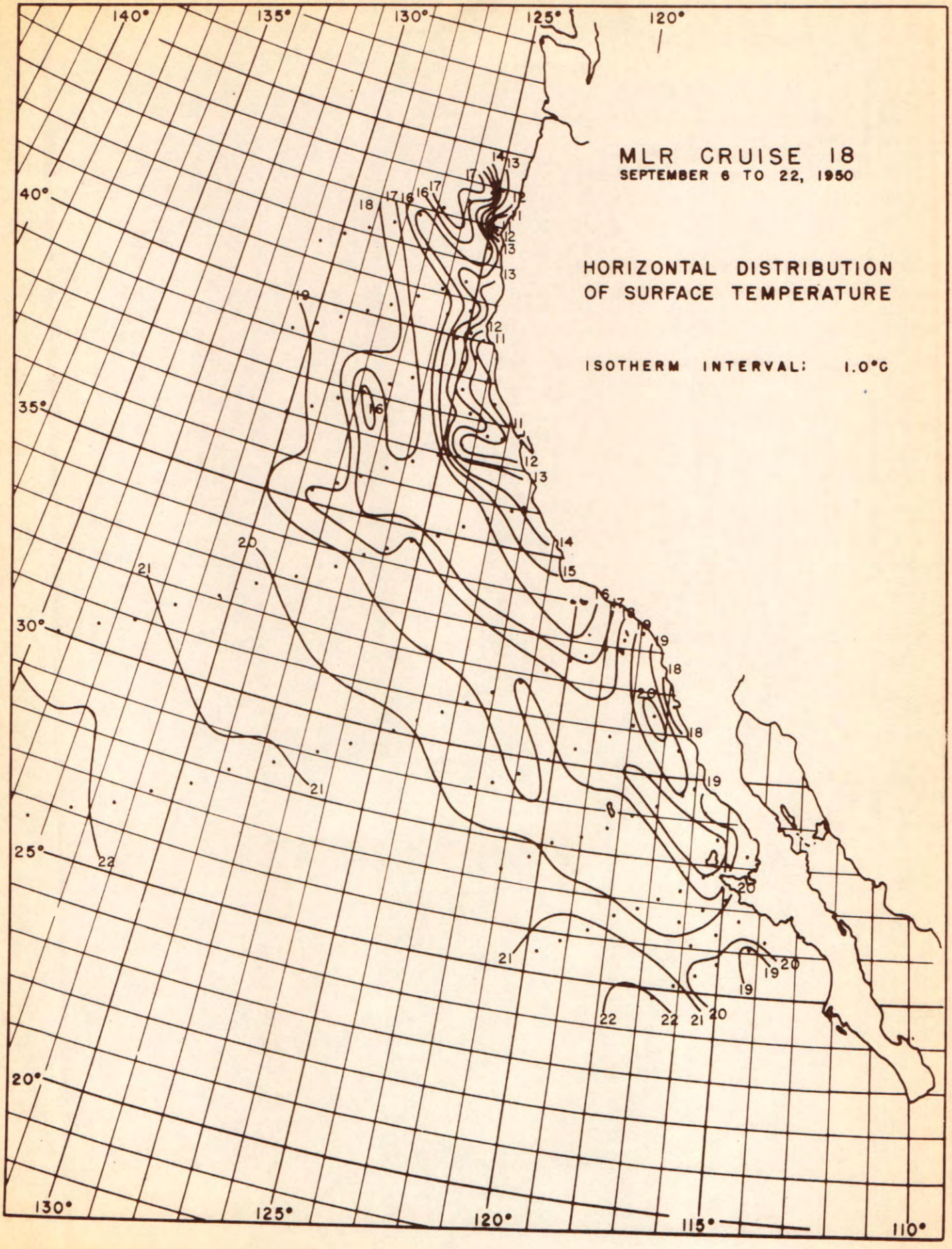
MV PAOLINA-T

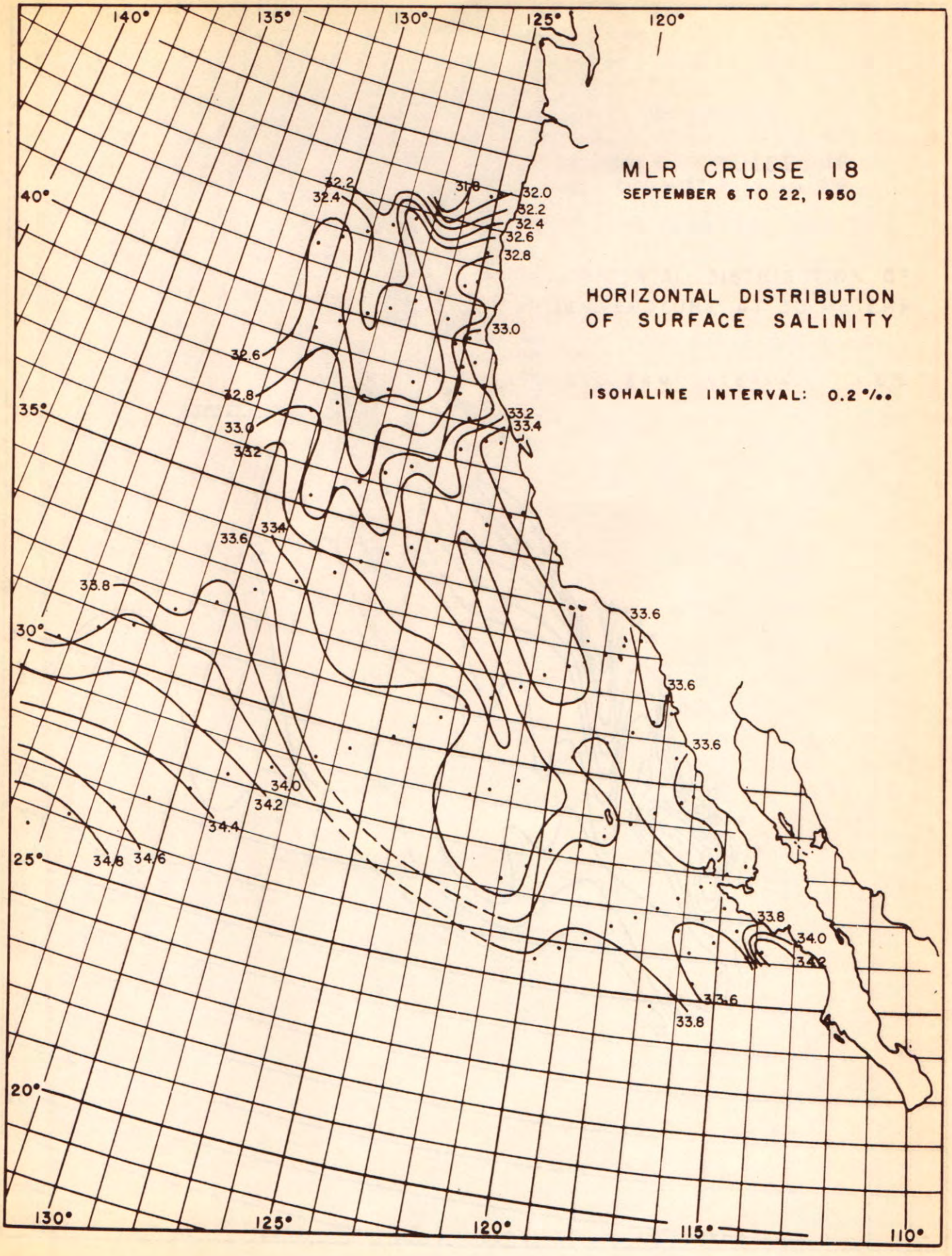
Beckwith, Warren W., Jr., Senior Marine Technician
Cunningham, Leonard M., Jr., Marine Technician
Johnson, Norman W., Marine Technician
Knight, Wilbur L., Marine Technician
Kelmers, Andrew D., Marine Technician, Chemical

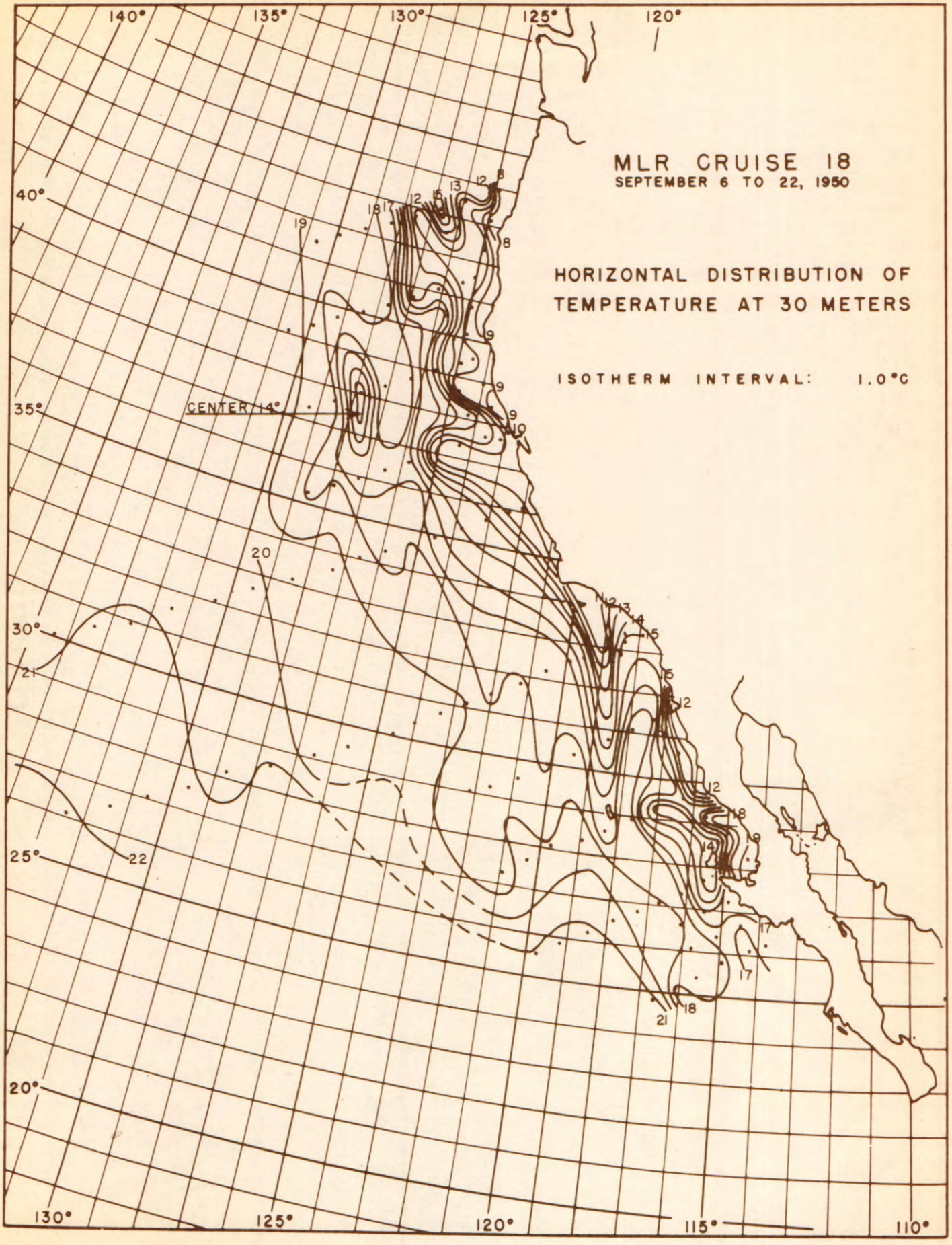
PERSONNEL PARTICIPATING IN PREPARATION OF DATA

Barney, Ruth M., Stenographer
Barstow, Mary C., Laboratory Technician
Beckwith, Warren W., Jr., Senior Marine Technician
Berkey, Max L., Jr., Marine Technician
Brown, Cuthrie F., Engineering Aid
Browne, Geneva S., Engineering Aid
Cunningham, Leonard M., Jr., Marine Technician
Cassady, Rose Marie, Engineering Aid
Eby, Lorraine L., Engineering Aid
Gilkey, Robert W., Marine Technician
Gossett, David A., Senior Marine Technician
Haddow, Robert W., Marine Technician
Haulman, Doris V., Engineering Aid
Herreshoff, Karl F., Marine Technician, Chemical
Hutchins, Dorsey M., Typist-Clerk
Jellison, Donald L., Engineering Aid
Kartrude, Robert C., Senior Engineering Aid
Kaatz, E. James, Marine Technician, Chemical
Kirk, Robert W., Laboratory Technician
Klein, Hans T., Principal Laboratory Technician
Mao, Han-Lee, Research Assistant
Matheny, Gladys K., Engineering Aid
Metzger, June C., Typist-Clerk
Mead, Richard V., Principal Marine Technician
Messner, Gordon P., Marine Techician
Miller, Bernadette L., Engineering Aid
Love, Cuthbert M., Research Assistant
Payne, Miles M., Marine Technician
Propsner, Ruth O., Engineering Aid
Ratty, Donald K., Marine Technician
Ridgely, Johanna W., Laboratory Technician
Smith, Alan C., Senior 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
Worrall, Charles G., Senior Marine Technician


MLR CRUISE 18
SEPTEMBER 6 TO 22, 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
0 .2 .4 .6 .8 1.0 KNOTS
0 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°
1.50 1.45 1.40 1.35 1.30 1.25
1.55 1.60 1.25 1.60 1.55 1.30 1.35
1.60 1.55 1.55 1.60
1.35 1.35 1.40 1.40 1.50 1.45


MLR CRUISE 18
SEPTEMBER 6 TO 22, 1950
HORIZONTAL DISTRIBUTION
OF SURFACE TEMPERATURE
ISOTHERM INTERVAL: 1.0°C
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°


MLR CRUISE 18
SEPTEMBER 6 TO 22, 1950
HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY
ISOHALINE INTERVAL: 0.2 °/..
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
32.2
32.4
31.8
32.0
32.2
32.4
32.6
32.8
33.0
32.6
32.8
33.0
33.2
33.2
33.4
33.4
33.6
33.8
33.6
33.6
33.6
34.0
34.2
34.4
34.8
34.6
33.8
34.0
34.2
33.6
33.8


MLR CRUISE 18
SEPTEMBER 6 TO 22, 1950
HORIZONTAL DISTRIBUTION OF
TEMPERATURE AT 30 METERS
ISOTHERM INTERVAL: 1.0°C
CENTER 14°
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°

STATION 30.26 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 43°54.5'N 124°49.5'W September 19, 1950 2158 GCT Wire angle: 4° Sounding: 120 fms. Depth of observation: 199 m. Weather: haze Sea: slight Wind: calm

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	13.27	31.98	24.03	389.5	.0000	5.88	-
10	11.40	32.12	24.49	345.8	.0369	5.32	-
20	9.10	32.38	25.08	289.8	.0688	5.07	-
30	8.00	32.67	25.47	252.6	.0960	4.88	-
50	7.50	32.92	25.74	227.5	.1443	4.65	-
75	7.80	33.40	26.07	196.2	.1976	3.60	-
100	7.39	33.70	26.36	168.7	.2435	2.88	-
150	7.35	~~32.81~~ 33.81	26.45	160.7	.326	1.98	-
200	7.23	33.93	26.57	150.9	.405	1.15	-

STATION 30.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 43°46.5'N 125°08.5'W September 19, 1950 1843 GCT Wire angle: 1° Sounding: 815 fms. Depth of observation: 1,194 m. Weather: overcast Sea: slight Wind: 150°, force 2

0	16.85	31.87	23.17	470.9	.0000	5.90	-
10	16.75	31.85	23.18	470.4	.0473	5.71	-
20	16.32	31.85	23.28	461.3	.0940	5.94	-
30	12.25	32.51	24.63	332.4	.1339	6.10	-
50	8.89	32.57	25.26	273.1	.1947	6.40	-
75	7.55	32.56	25.45	255.3	.2611	6.47	-
100	7.00	32.79	25.70	231.3	.3273	5.75	-
150	7.30	33.55	26.26	179.4	.426	3.77	-
200	6.76	33.81	26.54	153.6	.510	3.23	-
250	6.33	33.89	26.66	142.7	.584	2.64	-
300	6.04	33.93	26.72	136.7	.655	2.05	-
400	5.40	34.01	26.87	124.1	.786	1.31	-
500	4.97	34.07	26.96	115.5	.907	.71	-
600	4.52	34.13	27.06	106.8	1.019	.61	-
700	4.34	34.21	27.14	99.7	1.123	.52	-
800	4.22	34.31	27.24	91.8	1.220	.42	-
1000	3.68	34.40	27.36	80.4	1.394	.43	-

STATION 30.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 43°26.5'N 125°56'W September 19, 1950 1023 GCT Wire angle: 3° Sounding: 1,720 fms. Depth of observation: 1,190 m. Weather: clear Sea: slight Wind: calm

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	16.39	31.82	23.24	464.4	.0000	5.69	-
10	15.12	31.88	23.57	433.6	.0451	5.92	-
20	11.65	32.20	24.50	344.4	.0841	5.85	-
30	10.40	32.60	25.03	294.0	.1162	5.64	-
50	8.23	32.77	25.51	248.7	.1707	4.81	-
75	7.46	33.12	25.90	212.4	.2287	4.55	-
100	7.29	33.58	26.28	176.2	.2776	3.90	-
150	7.28	33.68	26.36	169.4	.365	3.29	-
200	6.92	33.81	26.51	155.7	.446	2.89	-
250	6.27	33.95	26.71	137.5	.520	2.48	-
300	5.95	33.97	26.77	132.6	.588	1.92	-
400	5.33	34.01	26.87	123.2	.717	1.09	-
500	4.92	34.12	27.01	111.2	.835	.80	-
600	4.83	34.23	27.11	103.0	.943	.56	-
700	4.58	34.27	27.17	98.1	1.045	.44	-
800	4.24	34.30	27.23	92.7	1.141	.40	-
1000	3.58	34.43	27.40	77.1	1.313	.47	-

STATION 30.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 43°06.5'N 126°43.5'W September 19, 1950 0359 GCT Wire angle: 4° Sounding: 1,840 fms. Depth of observation: 1,194 m. Weather: partly cloudy Sea: moderate Wind: calm.

0	17.44	31.80	22.98	489.2	.0000	5.47	-
10	17.19	31.80	23.04	483.8	.0488	5.62	-
20	17.17	31.82	23.06	482.2	.0973	5.07	-
30	15.15	32.31	23.89	403.2	.1418	4.96	-
50	12.10	32.47	24.63	333.1	.2158	5.32	-
75	8.84	32.57	25.26	272.8	.2919	5.77	-
100	8.11	32.75	25.51	249.3	.3576	5.17	-
150	8.88	33.54	26.02	202.8	.471	4.15	-
200	7.88	33.84	26.40	166.7	.564	2.71	-
250	7.36	33.90	26.52	155.7	.646	2.47	-
300	6.92	33.92	26.60	149.0	.722	2.38	-
400	6.07	33.98	26.76	134.7	.865	1.61	-
500	5.74	34.06	26.86	125.8	.997	1.17	-
600	4.99	34.15	27.02	110.9	1.116	.74	-
700	4.55	34.21	27.12	102.1	1.224	.53	-
800	4.35	34.25	27.18	97.7	1.325	.45	-
1000	3.68	34.36	27.33	83.4	1.508	.35	-

STATION 30.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 42°46.5'N 127°30.5'W September 18, 1950 2145 GCT Wire angle: 6° Sounding: 1,580 fms. Depth of observation: 1,183 m. Weather: partly cloudy Sea: moderate Wind: 340°, 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	14.39	32.65	24.31	362.1	.0000	6.12	-
10	13.75	32.60	24.41	353.4	.0359	6.27	-
20	11.90	32.62	24.78	317.8	.0696	6.36	-
30	10.50	32.67	25.07	290.5	.1001	6.42	-
50	8.56	32.76	25.46	254.2	.1549	5.56	-
75	8.12	32.89	25.62	238.6	.2168	5.28	-
100	8.23	33.33	25.95	207.9	.2730	4.58	-
150	8.00	33.71	26.28	177.2	.370	3.75	-
200	7.33	33.93	26.55	152.3	.453	2.52	-
250	6.74	33.99	26.68	140.6	.527	1.86	-
300	6.32	34.01	26.75	134.3	.596	1.47	-
400	5.67	34.06	26.87	123.7	.726	1.01	-
500	5,00	34.19	27.06	107.0	.842	.57	-
600	4.77	34.22	27.11	103.0	.948	.45	-
700	4.55	34.26	27.16	98.4	1.050	.37	-
800	4.29	34.32	27.24	91.8	1.146	.32	-
1000	3.79	34.43	27.38	79.5	1.319	.41	-

STATION 30.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 42°26.5'N 128°17'W September 18, 1950 1440 GCT Wire angle: 11° Sounding: 1,720 fms. Depth of observation: 1,153 m. Weather: overcast Sea: moderate Wind: 340°, force 1

0	17.64	32.23	23.26	462.3	.0000	5.57	-
10	17.65	32.24	23.27	462.1	.0464	5.65	-
20	17.80	32.28	23.26	462.9	.0928	5.71	-
30	17.87	32.35	23.30	459.8	.1392	5.90	-
50	11.99	32.64	24.78	318.6	.2174	6.93	-
75	9.50	32.73	25.28	270.9	.2915	5.66	-
100	8.44	32.65	25.39	261.4	.3585	5.77	-
150	7.44	33.04	25.84	219.2	.479	5.76	-
200	7.19	33.76	26.44	163.0	.576	4.02	-
250	6.76	33.88	26.59	149.1	.654	3.19	-
300	6.24	33.94	26.71	138.5	.727	2.58	-
400	5.40	33.98	26.84	126.3	.860	1.59	-
500	4.92	34.10	26.99	112.7	.981	.91	-
600	4.47	34.18	27.11	102.5	1.089	.74	-
700	4.17	34.25	27.19	94.7	1.189	.57	-
800	3.94	34.31	27.27	88.5	1.281	.42	-
1000	3.44	34.38	27.37	79.1	1.451	.38	-

STATION 30.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 42°06.5'N 129°04'W September 18, 1950 0630 GCT Wire angle: 20° Sounding: 1,780 fms. Depth of observation: 1,207 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	18.38	32.56	23.34	455.4	.0000	4.98	-
10	18.37	32.56	23.34	455.5	.0457	4.80	-
20	18.32	32.59	23.37	452.4	.0913	4.84	-
30	18.29	32.66	23.43	446.9	.1365	4.85	-
50	11.74	32.72	24.89	308.3	.2124	4.82	-
75	9.94	32.77	25.24	274.9	.2857	5.30	-
100	9.31	32.77	25.35	265.5	.3536	5.19	-
150	7.98	32.81	25.58	243.8	.482	4.81	-
200	7.42	33.56	26.25	181.0	.589	4.40	-
250	6.93	33.85	26.54	153.6	.673	3.73	-
300	6.34	33.95	26.70	139.1	.747	2.85	-
400	5.52	34.00	26.84	126.3	.881	1.72	-
500	5.01	34.11	26.99	113.0	1.001	1.00	-
600	4.62	34.11	27.03	109.4	1.113	.61	-
700	4.25	34.18	27.13	100.8	1.220	.44	-
800	3.98	34.26	27.22	92.7	1.317	.35	-
1000	3.51	34.35	27.34	82.2	1.494	.37	-

STATION 30.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°47'N 129°50'W September 17, 1950 2230, 2245 GCT Wire angle: 13°, 14° Sounding: 1,750 fms. Depth of observation: 24, 1,173 m. Weather: overcast Sea: very rough Wind: 360°, force 4

0	18.63	32.66	23.35	454.0	.0000	5.51	-
10	18.63	32.66	23.35	454.3	.0456	5.37	-
20	18.64	32.66	23.35	454.9	.0912	5.42	-
30	18.63	32.65	23.34	455.7	.1370	5.75	-
50	14.82	32.61	24.19	375.0	.2204	6.87	-
75	10.30	32.60	25.05	293.3	.3044	6.18	-
100	8.76	32.67	25.35	264.6	.3746	6.10	-
150	7.57	33.33	26.05	199.4	.491	4.55	-
200	7.07	33.76	26.45	161.4	.582	3.82	-
250	6.49	33.89	26.63	144.8	.659	3.25	-
300	5.89	33.95	26.76	133.3	.729	2.61	-
400	5.05	34.00	26.90	120.6	.857	1.58	-
500	4.63	34.09	27.02	110.0	.974	1.04	-
600	4.59	34.18	27.09	103.9	1.082	.50	-
700	4.40	34.24	27.16	98.1	1.184	.38	-
800	4.07	34.29	27.24	91.5	1.279	.35	-
1000	3.45	34.41	27.39	77.0	1.450	.29	-

STATION 30.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°27'N 130°36'W September 17, 1950 1359 GCT Wire angle: 16° Sounding: 1,780 fms. Depth of observation: 1,074 m. Weather: overcast Sea: rough Wind: 350°, 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	18.75	32.68*	23.33	455.4	.0000	5.28	-
10	18.75	32.66*	23.32	457.2	.0458	5.25	-
20	18.75	33.62*	23.29	460.4	.0919	5.27	-
30	18.76	32.62*	23.29	461.0	.1381	5.53	-
50	11.99	32.83*	24.93	304.6	.2151	6.52	-
75	10.13	32.86*	25.28	271.3	.2875	5.66	-
100	9.40	32.86*	25.40	260.2	.3543	5.88	-
150	8.29	32.89*	25.60	242.3	.481	5.60	-
200	7.35	33.23*	26.00	204.6	.593	4.51	-
250	6.77	33.37*	26.19	187.1	.692	3.60	-
300	6.27	33.69*	26.51	157.5	.779	2.90	-
400	5.50	33.93*	26.79	131.2	.924	1.75	-
500	4.83	34.00*	26.92	119.1	1.050	1.10	-
600	4.24	34.05*	27.03	109.5	1.166	.87	-
700	4.12	34.05*	27.04	109.0	1.276	.56	-
800	3.97	34.25*	27.22	93.3	1.378	.37	-
1000	3.54	34.38*	27.36	80.3	1.554	.38	-

* Sequence of salinity samples uncertain

STATION 33.32 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 43°07.5'N 124°53'W September 20, 1950 0435 GCT Wire angle: 6° Sounding: 230 fms. Depth of observation: 352 m. Weather: clear Sea: smooth Wind: calm

0	10.80	32.39	24.80	315.5	.0000	4.84	-
10	9.30	33.02	25.54	245.2	.0281	6.04	-
20	8.30	33.19	25.83	218.0	.0514	5.75	-
30	7.96	33.30	25.97	205.2	.0726	4.28	-
50	7.68	33.49	26.16	187.5	.1121	4.06	-
75	7.50	33.55	26.23	180.9	.1584	3.52	-
100	7.70	33.73	26.34	170.7	.2027	3.04	-
150	6.84	33.85	26.56	150.9	.284	2.52	-
200	6.74	34.02	26.70	137.7	.356	2.10	-
250	6.50	34.02	26.74	135.2	.425	1.81	-
300	6.47	34.07	26.78	131.8	.492	(1.27)	-

STATION 37.38 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 42°20'N 124°56.5'W September 20, 1950 1203 GCT Wire angle: 13° Sounding: 660 fms. Depth of observation: 986 m. Weather: clear Sea: moderate Wind: 20°, 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	15.15	32.79	24.26	367.3	.0000	5.42	-
10	15.12	32.79	24.27	366.9	.0369	5.25	-
20	14.60	32.82	24.40	354.4	.0731	5.70	-
30	10.45	33.07	25.39	260.1	.1039	5.74	-
50	8.75	33.40	25.93	209.5	.1511	4.41	-
75	8.14	33.52	26.11	192.1	.2016	4.22	-
100	8.02	33.78	26.33	171.5	.2473	3.36	-
150	7.52	33.92	26.52	154.9	.329	2.25	-
200	7.14	33.98	26.62	146.0	.405	1.80	-
250	6.78	34.02	26.70	138.9	.477	1.52	-
300	6.41	34.07	26.79	131.1	.545	1.33	-
400	5.80	34.11	26.90	121.6	.672	.92	-
500	5.31	34.14	26.98	114.4	.791	.79	-
600	4.92	34.21	27.08	105.6	.902	.50	-
700	4.62	34.34	27.22	93.3	1.003	.30	-
800	4.28	34.34	27.25	90.2	1.095	.28	-
1000	(3.67)	(34.50)	27.44	72.9	1.260	(.34)	-

STATION 40.45 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°33'N 125°00'W September 14, 1950 0445 GCT Wire angle: 14° Sounding: 740 fms. Depth of observation: 1,183 m. Weather: overcast Sea: moderate Wind: calm , force 0

0	13.99	32.89	24.58	336.6	.0000	6.39	-
10	13.40	32.94	24.74	321.7	.0330	6.45	-
20	12.10	32.94	24.99	297.8	.0641	6.65	-
30	10.76	32.94	25.24	274.8	.0929	6.66	-
50	9.74	33.57	25.90	212.0	.1418	6.00	-
75	8.24	33.58	26.15	189.1	.1922	4.77	-
100	8.27	33.80	26.31	173.6	.2379	4.36	-
150	7.39	33.93	26.54	152.4	.320	3.52	-
200	6.86	33.95	26.63	144.5	.395	2.82	-
250	6.42	33.98	26.71	137.2	.466	2.26	-
300	6.01	34.02	26.80	129.6	.533	1.79	-
400	5.56	34.09	26.91	120.1	.659	1.03	-
500	5.08	34.19	27.05	107.9	.774	.63	-
600	4.82	34.30	27.16	97.7	.877	.62	-
700	4.56	34.35	27.23	91.9	.973	.51	-
800	4.23	34.39	27.30	85.9	1.063	.41	-
1000	3.57	34.46	27.42	74.7	1.225	.56	-

STATION 40.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°23'N 125°23'W September 14, 1950 0853 GCT Wire angle: 4° Sounding: 1,690 fms. Depth of observation: 1,186 m. Weather: overcast Sea: moderate Wind: calm

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	13.52	32.99	24.75	320.1	.0000	5.66	-
10	11.72	33.08	25.17	280.5	.0301	6.23	-
20	10.46	33.05	25.37	261.5	.0574	6.09	-
30	10.31	33.04	25.39	260.0	.0835	5.70	-
50	10.22	33.30	25.61	239.7	.1338	5.53	-
75	9.89	33.48	25.81	221.6	.1918	5.05	-
100	8.34	33.60	26.15	189.5	.2435	4.07	-
150	7.94	33.92	26.46	160.8	.332	2.24	-
200	7.33	33.96	26.58	150.1	.410	2.18	-
250	6.85	33.98	26.66	142.8	.484	2.05	-
300	6.48	34.00	26.72	137.2	.554	1.75	-
400	5.92	34.09	26.87	124.6	.686	1.14	-
500	5.24	34.17	27.01	111.4	.805	.74	-
600	4.90	34.22	27.09	104.6	.914	.47	-
700	4.62	34.28	27.17	97.8	1.016	.38	-
800	4.34	34.35	27.26	90.2	1.111	.39	-
1000	3.73	34.43	27.38	78.8	1.282	.42	-

STATION 40.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 41°03'N 126°09'W September 14, 1950 1528 GCT Wire angle: 15° Sounding: 1,680 fms. Depth of observation: 1,152 m. Weather: partly cloudy Sea: slight Wind: calm

0	16.61	32.63	23.81	410.1	.0000	5.72	-
10	16.23	32.70	23.95	397.0	.0405	6.00	-
20	15.25	32.78	24.23	370.6	.0791	5.93	-
30	13.25	32.81	24.67	328.9	.1142	5.94	-
50	9.20	32.83	25.41	258.5	.1732	6.32	-
75	7.88	32.68	25.49	250.9	.2372	6.06	-
100	7.55	33.29	26.02	201.4	.2941	5.54	-
150	7.45	33.76	26.40	165.8	.387	3.56	-
200	7.11	32.94	26.59	148.6	.466	2.75	-
250	6.64	34.01	26.71	137.8	.538	2.24	-
300	6.18	34.04	26.79	130.3	.605	1.75	-
400	5.46	34.02	26.87	124.0	.734	1.13	-
500	5.15	34.16	27.01	111.0	.852	1.05	-
600	4.66	34.24	27.13	100.2	.959	.58	-
700	4.37	34.31	27.22	92.6	1.056	.38	-
800	4.16	34.37	27.29	86.6	1.146	.38	-
1000	3.62	34.43	27.39	77.5	1.312	.45	-

STATION 40.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°42'N 126°55'W September 14, 1950 2235 GCT Wire angle: 9° Sounding: 1,700 fms. Depth of observation: 1,142 m. Weather: overcast Sea: slight Wind: 140°, 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	16.61	32.45	23.67	423.2	.0000	5.50	-
10	16.37	32.45	23.73	418.3	.0422	6.03	-
20	15.25	32.46	23.98	394.1	.0830	6.15	-
30	12.85	32.64	24.62	333.8	.1196	6.20	-
50	10.24	32.66	25.11	287.4	.1820	6.21	-
75	8.35	32.74	25.47	253.0	.2499	6.07	-
100	7.68	32.87	25.67	234.4	.3112	4.78	-
150	7.46	33.70	26.35	170.4	.413	3.12	-
200	7.30	33.87	26.51	156.4	.495	2.55	-
250	6.85	33.96	26.64	144.3	.571	2.27	-
300	6.18	34.02	26.78	131.8	.641	2.07	-
400	5.45	34.08	26.92	119.4	.767	1.13	-
500	4.68	34.04	26.97	114.3	.885	.60	-
600	4.57	34.18	27.10	103.6	.995	.44	-
700	4.27	34.28	27.21	93.7	1.095	.37	-
800	3.98	34.35	27.29	86.0	1.185	.36	-
1000	3.50	34.41	27.39	77.6	1.351	.52	-

STATION 40.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°23'N 127°40'W September 15, 1950 0518 GCT Wire angle: 14° Sounding: 910 fms. Depth of observation: 1,147 m. Weather: partly cloudy Sea: slight Wind: 150°, force 2

0	18.52	(32.50)	23.25	463.1	.0000	5.63	-
10	18.51	32.50	23.26	463.1	.0465	5.57	-
20	18.07	32.50	23.36	453.2	.0925	5.66	-
30	18.02	32.50	23.38	452.3	.1379	5.80	-
50	16.57	32.57	23.77	415.1	.2251	6.05	-
75	11.60	32.66	24.87	310.8	.3164	6.24	-
100	9.99	32.68	25.17	282.8	.3910	6.42	-
150	8.06	33.03	25.74	228.6	.520	5.08	-
200	7.74	33.77	26.37	169.9	.620	3.44	-
250	7.30	33.94	26.56	151.9	.701	2.75	-
300	6.78	33.99	26.67	141.9	.775	2.24	-
400	5.94	34.04	26.82	128.6	.911	1.31	-
500	5.29	34.11	26.96	116.4	1.035	.83	-
600	4.86	34.18	27.06	107.1	1.148	.57	-
700	4.51	34.26	27.17	98.0	1.251	.37	-
800	4.19	34.34	27.26	89.2	1.346	.33	-
1000	3.77	34.43	27.38	79.3	1.517	.43	-

STATION 40.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°02'N 128°25'W September 15, 1950 1220 GCT Wire angle: 3° Sounding: 2,500 fms. Depth of observation: 1,193 m. Weather: partly cloudy Sea: slight Wind: 170°, 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	18.74	32.39	23.12	476.3	.0000	5.31	-
10	18.64	32.22	23.01	486.6	.0483	5.31	-
20	18.21	32.31	23.19	470.2	.0964	5.34	-
30	18.16	32.46	23.31	458.5	.1430	5.44	-
50	15.65	32.63	24.03	390.8	.2283	5.63	-
75	11.17	32.70	24.98	300.4	.3152	5.85	-
100	10.00	32.75	25.22	277.8	.3880	5.35	-
150	8.99	33.03	25.60	242.2	.519	5.37	-
200	8.22	33.64	26.20	186.5	.627	3.37	-
250	7.56	33.88	26.48	160.0	.714	2.52	-
300	7.07	33.98	26.63	146.6	.791	1.96	-
400	6.32	34.05	26.78	132.7	.932	1.33	-
500	5.78	34.11	26.90	122.6	1.061	1.01	-
600	5.37	34.16	26.99	114.9	1.181	.64	-
700	4.87	34.22	27.09	105.3	1.292	.45	-
800	4.30	34.27	27.20	95.7	1.393	.40	-
1000	3.59	34.42	27.39	77.9	1.569	.42	-

STATION 40.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°42'N 129°10'W September 15, 1950 1913 GCT Wire angle: 6° Sounding: 2,500 fms. Depth of observation: 1,192 m. Weather: overcast Sea: slight Wind: 190°, force 2

0	18.76	32.66	23.32	457.1	.0000	5.47	-
10	18.27	32.65	23.43	446.6	.0454	5.85	-
20	17.68	32.67	23.59	431.8	.0895	5.73	-
30	17.54	33.08	23.94	399.0	.1312	5.70	-
50	13.75	33.28	24.93	304.5	.2019	6.24	-
75	10.25	33.31	25.61	240.0	.2703	5.15	-
100	9.01	33.56	26.01	202.4	.3260	4.32	-
150	7.61	33.81	26.42	164.3	.418	3.44	-
200	7.77	33.98	26.53	154.8	.499	3.81	-
250	7.41	34.05	26.63	145.3	.574	2.67	-
300	6.86	34.09	26.74	135.5	.645	1.58	-
400	6.04	34.10	26.86	125.4	.776	1.19	-
500	5.00	34.09	26.98	114.4	.897	1.14	-
600	4.28	34.13	27.09	104.0	1.008	.78	-
700	4.06	34.22	27.18	95.7	1.108	.50	-
800	3.99	34.31	27.26	89.1	1.202	.42	-
1000	3.40	34.43	27.41	75.0	1.368	.53	-

STATION 40.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°23'N 129°55'W September 16, 1950 0238 GCT Wire angle: 0° Sounding: 2,450 fms. Depth of observation: 1,202 m. Weather: cloudy Sea: very rough Wind: 270°, 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	18.95	32.75	23.34	455.1	.0000	4.96	-
10	18.95	32.59	23.22	467.0	.0463	5.37	-
20	18.71	32.66	23.33	456.5	.0927	5.33	-
30	18.64	32.72	23.39	450.8	.1387	5.29	-
50	15.32	32.75	24.19	375.1	.2217	5.80	-
75	10.85	32.74	25.07	292.0	.3056	5.78	-
100	9.15	32.87	25.45	255.6	.3744	5.59	-
150	8.00	33.51	26.13	192.1	.487	3.97	-
200	7.36	33.86	26.49	157.9	.575	4.07	-
250	6.90	33.96	26.64	145.0	.652	3.19	-
300	6.60	34.02	26.72	137.3	.723	2.00	-
400	5.92	34.11	26.88	123.1	.854	1.19	-
500	5.32	34.17	27.00	112.3	.973	.75	-
600	4.82	34.25	27.12	101.4	1.080	.46	-
700	4.41	34.33	27.23	91.6	1.178	.33	-
800	4.05	34.38	27.31	84.6	1.267	.27	-
1000	3.43	34.48	27.45	71.6	1.425	.52	-

STATION 40.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°03'N 130°39'W September 16, 1950 1114 GCT Wire angle: 4° Sounding: 2,420 fms. Depth of observation: 1,200 m. Weather: partly cloudy Sea: high Wind: 270°, force 6

0	19.08	32.59	23.18	469.9	.0000	5.57	-
10	19.08	32.75	23.31	458.5	.0466	5.43	-
20	19.76	32.74	23.12	476.2	.0935	5.40	-
30	19.82	32.72	23.09	479.4	.1415	5.41	-
50	12.85	32.68	24.65	331.4	.2230	6.37	-
75	11.02	32.81	25.09	289.7	.3011	6.44	-
100	10.12	32.77	25.21	278.3	.3725	6.10	-
150	8.89	33.03	25.62	240.7	.503	5.37	-
200	7.70	33.42	26.10	195.3	.613	5.14	-
250	7.11	33.73	26.43	164.9	.704	4.80	-
300	6.68	33.87	26.59	149.5	.783	4.27	-
400	5.53	33.95	26.80	130.1	.924	2.66	-
500	4.78	34.02	26.95	117.0	1.048	1.51	-
600	4.57	34.16	27.08	105.1	1.160	.77	-
700	4.34	34.22	27.15	98.9	1.263	.50	-
800	3.99	34.27	27.23	92.0	1.360	.41	-
1000	3.44	34.45	27.43	74.0	1.528	.50	-

STATION 43.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°48'N 124°57'W September 13, 1950 2108 GCT Wire angle: 4° Sounding: 1,545 fms. Depth of observation: 1,198 m. Weather: overcast Sea: moderate Wind: 300°, 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	15.56	32.68	24.08	383.9	.0000	5.97	-
10	14.42	32.81	24.43	351.2	.0369	5.86	-
20	11.75	32.92	25.04	293.1	.0692	5.76	-
30	9.25	33.02	25.55	244.8	.0962	5.65	-
50	8.86	33.31	25.84	217.8	.1427	4.95	-
75	8.92	33.58	26.04	199.1	.1951	4.12	-
100	8.60	33.86	26.31	174.0	.2421	3.05	-
150	7.94	33.86	26.41	165.3	.327	2.20	-
200	7.41	33.98	26.58	149.7	.407	2.02	-
250	6.92	34.05	26.70	138.6	.479	1.67	-
300	6.47	34.09	26.80	130.3	.547	1.20	-
400	5.82	34.14	26.92	119.6	.673	.75	-
500	5.28	34.20	27.03	109.6	.789	.58	-
600	4.59	34.24	27.14	99.4	.894	.38	-
700	4.27	34.31	27.23	91.4	.990	.38	-
800	4.15	34.40	27.32	84.3	1.079	.38	-
1000	3.61	34.45	27.41	75.9	1.241	.47	-

STATION 43.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°28'N 125°43'W September 13, 1950 1413 GCT Wire angle: 10°, Sounding: 1,580 fms. Depth of observation: 1,170 m. Weather: overcast Sea: slight Wind: 310°, force 1

0	16.00	32.63	23.95	396.9	.0000	5.92	-
10	15.98	32.63	23.95	396.7	.0398	6.32	-
20	15.80	32.65	24.01	391.7	.0794	6.34	-
30	15.15	32.66	24.16	377.6	.1180	6.30	-
50	11.50	32.65	24.87	309.2	.1871	6.19	-
75	8.80	32.63	25.32	267.8	.2596	6.38	-
100	8.20	32.74	25.49	251.3	.3249	5.99	-
150	7.95	33.63	26.23	182.5	.434	3.45	-
200	7.95	33.95	26.48	159.6	.520	1.86	-
250	7.65	34.01	26.57	151.7	.599	1.70	-
300	6.91	34.04	26.70	139.9	.672	1.67	-
400	6.15	34.11	26.85	126.1	.806	1.05	-
500	5.10	34.08	26.96	116.3	.928	.78	-
600	4.93	34.22	27.09	105.0	1.040	.45	-
700	4.54	34.26	27.16	98.3	1.143	.38	-
800	4.08	34.28	27.22	92.3	1.239	.40	-
1000	3.69	34.42	27.38	79.1	1.412	.52	-

STATION 47.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°04'N 124°55'W September 13, 1950 0336 GCT Wire angle: 3° Sounding: 660 fms. Depth of observation: 995 m. Weather: overcast
Sea: slight Wind: calm

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	12.51	33.15	25.08	289.3	.0000	5.53	-
10	10.68	33.39	25.60	239.8	.0266	5.35	-
20	9.65	33.59	25.93	208.5	.0491	5.19	-
30	9.55	33.60	25.96	206.4	.0699	5.05	-
50	9.46	33.60	25.97	205.4	.1113	4.84	-
75	9.12	33.66	26.07	196.2	.1618	4.29	-
100	8.27	33.80	26.31	173.6	.2083	2.88	-
150	7.65	33.88	26.47	159.7	.292	2.67	-
200	7.21	34.04	26.66	142.5	.368	2.31	-
250	6.89	34.11	26.75	133.7	.438	1.65	-
300	6.57	34.14	26.82	128.0	.504	1.07	-
400	5.99	34.23	26.97	115.1	.626	.75	-
500	5.51	34.27	27.06	107.3	.738	.58	-
600	4.95	34.31	27.16	98.5	.842	.42	-
700	4.71	34.31	27.18	96.7	.941	.35	-
800	4.11	34.33	27.26	89.0	1.034	.38	-
1000	(3.56)	(34.45)	27.42	75.3	1.201	(.53)	-

STATION 47.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°54'N 125°18'W September 13, 1950 0724 GCT Wire angle: 10° Sounding: 1,500 fms. Depth of observation: 1,190 m. Weather: overcast
Sea: slight Wind: calm

0	14.55	32.84	24.43	351.4	.0000	5.70	-
10	14.27	32.84	24.48	346.0	.0350	5.79	-
20	14.08	32.82	24.51	344.0	.0700	5.66	-
30	11.00	32.80	25.09	289.2	.1014	5.65	-
50	8.97	32.77	25.40	259.5	.1566	5.63	-
75	8.91	33.10	25.67	234.5	.2187	5.39	-
100	7.95	33.42	26.06	197.3	.2730	3.75	-
150	7.57	33.86	26.46	160.0	.363	2.75	-
200	7.02	33.91	26.58	149.6	.441	2.27	-
250	6.56	33.96	26.68	140.4	.514	1.86	-
300	6.20	34.02	26.77	132.1	.583	1.52	-
400	6.02	34.13	26.88	122.9	.711	.63	-
500	5.49	34.22	27.02	110.7	.829	.51	-
600	5.05	34.25	27.10	104.2	.937	.38	-
700	4.58	34.29	27.18	96.6	1.039	.32	-
800	4.09	34.35	27.28	87.3	1.132	.31	-
1000	3.63	34.43	27.39	77.6	1.298	.50	-

STATION 50.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°30'N 124°30'W September 12, 1950 2023 GCT Wire angle: 4° Sounding: 1,140 fms. Depth of observation: 1,193 m. Weather: overcast Sea: slight Wind: 300°, 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	11.17	33.15	25.33	265.6	.0000	6.24	-
10	10.85	33.21	25.43	256.0	.0262	6.51	-
20	10.58	33.22	25.49	250.9	.0516	6.37	-
30	10.29	33.23	25.54	245.6	.0766	5.93	-
50	9.27	33.62	26.02	201.0	.1214	3.87	-
75	8.65	33.75	26.22	182.5	.1696	3.10	-
100	8.08	33.82	26.36	169.4	.2139	2.85	-
150	7.85	33.99	26.52	154.3	.295	2.12	-
200	7.37	34.05	26.64	144.0	.370	1.66	-
250	6.80	34.09	26.75	134.0	.440	1.35	-
300	6.47	34.13	26.83	127.4	.506	1.08	-
400	6.15	34.23	26.95	117.1	.630	.66	-
500	5.50	34.23	27.03	110.1	.744	.51	-
600	5.04	34.31	27.15	99.6	.850	.38	-
700	4.54	34.35	27.23	91.6	.947	.35	-
800	4.02	34.35	27.29	86.4	1.036	.35	-
1000	3.60	34.43	27.40	77.3	1.202	.51	-

STATION 50.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°20'N 124°52'W September 12, 1950 1618 GCT Wire angle: 10° Sounding: 1,610 fms. Depth of observation: 1,195 m. Weather: clear Sea: moderate Wind: 300°, force 2

0	13.30	32.88	24.71	323.9	.0000	6.22	-
10	13.27	32.84	24.69	326.6	.0327	6.22	-
20	12.75	32.86	24.81	315.6	.0649	6.04	-
30	10.62	32.86	25.20	278.4	.0947	5.98	-
50	9.55	32.86	25.38	261.6	.1490	5.91	-
75	8.20	33.03	25.72	229.4	.2107	5.51	-
100	8.02	33.23	25.90	212.4	.2663	4.70	-
150	7.90	33.78	26.35	170.6	.363	3.31	-
200	7.38	33.94	26.55	152.3	.444	2.58	-
250	6.58	34.01	26.72	137.0	.517	2.13	-
300	6.12	34.04	26.80	129.5	.584	1.75	-
400	5.50	34.09	26.92	119.3	.709	1.26	-
500	5.08	34.14	27.01	111.6	.826	.69	-
600	4.53	34.22	27.13	100.2	.933	.45	-
700	4.19	34.29	27.22	92.0	1.030	.37	-
800	4.00	34.33	27.28	87.7	1.120	.36	-
1000	3.57	34.42	27.39	77.7	1.288	.47	-

STATION 50.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°00'N 125°36.5'W September 12, 1950 0931 GCT Wire angle; 25° Sounding: 2,120 fms. Depth of observation: 1,095 m. Weather: clear Sea: moderate 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	15.49	(32.54)	23.99	392.7	.0000	5.51	-
10	15.49	32.54	23.99	392.9	.0394	5.71	-
20	15.49	32.67	24.09	383.7	.0784	5.62	-
30	13.25	32.68	24.57	338.4	.1147	5.66	-
50	10.85	32.66	25.00	297.4	.1786	6.28	-
75	8.61	32.61	25.33	266.5	.2494	5.71	-
100	8.18	32.66	25.43	257.0	.3153	5.83	-
150	8.62	33.58	26.09	195.9	.429	4.01	-
200	7.07	33.80	26.49	158.4	.519	3.44	-
250	6.64	33.90	26.62	146.0	.595	2.74	-
300	6.30	33.97	26.72	137.1	.666	1.98	-
400	5.56	34.03	26.86	124.5	.798	1.12	-
500	5.18	34.14	26.99	112.8	.918	.53	-
600	4.72	34.17	27.07	106.1	1.028	.25	-
700	4.37	34.26	27.18	96.3	1.131	.32	-
800	4.07	34.32	27.26	89.3	1.224	.35	-
1000	3.54	34.40	27.38	78.8	1.394	.44	-

STATION 50.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°40'N 126°21'W September 12, 1950 0151 GCT Wire angle: 13° Sounding: 2,370 fms. Depth of observation: 1,084 m. Weather: clear Sea: moderate Wind: 340°, force 3

0	17.22	32.47	23.55	435.3	.0000	5.78	-
10	17.23	32.48	23.55	435.1	.0437	5.20	-
20	17.14	32.48	23.57	433.4	.0873	5.42	-
30	17.06	32.48	23.59	431.9	.1307	5.95	-
50	16.78	32.50	23.67	424.8	.2168	6.26	-
75	12.80	32.78	24.74	323.7	.3109	6.32	-
100	10.78	32.72	25.06	292.8	.3885	6.11	-
150	9.01	33.06	25.62	240.3	.523	5.34	-
200	8.24	33.62	26.18	188.2	.631	3.70	-
250	7.84	33.87	26.43	164.7	.719	2.75	-
300	7.48	33.95	26.55	154.5	.800	2.15	-
400	6.36	34.02	26.75	135.5	.946	1.36	-
500	5.82	34.13	26.91	121.6	1.076	.92	-
600	5.29	34.18	27.01	112.4	1.194	.50	-
700	4.73	34.26	27.14	100.6	1.301	.36	-
800	4.32	34.32	27.23	92.2	1.399	.36	-
1000	3.79	34.42	27.37	80.3	1.573	.52	-

STATION 50.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°20'N 127°05'W September 11, 1950 1831 GCT Wire angle: missing Sounding: 2,460 fms. Depth of observation: 1,189 m. Weather: cloudy Sea: rough Wind: 310°, 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	17.59	32.56	23.53	437.1	.0000	5.13	-
10	17.49	32.54	23.53	436.6	.0439	5.40	-
20	17.39	32.78	23.74	417.2	.0867	5.33	-
30	17.25	32.78	23.78	414.3	.1285	5.34	-
50	15.60	32.75	24.13	381.0	.2084	5.62	-
75	12.45	32.81	24.83	315.0	.2959	5.47	-
100	10.91	32.79	25.09	289.9	.3720	5.14	-
150	9.30	33.01	25.54	248.5	.507	4.92	-
200	8.67	33.55	26.06	199.8	.620	4.10	-
250	8.23	33.86	26.37	171.2	.714	2.50	-
300	7.85	34.00	26.53	156.0	.796	1.84	-
400	7.07	34.09	26.71	139.9	.945	1.35	-
500	6.05	34.13	26.88	124.6	1.079	1.15	-
600	5.40	34.16	26.98	115.2	1.200	.74	-
700	5.02	34.25	27.10	104.9	1.311	.42	-
800	4.72	34.36	27.22	94.1	1.411	.32	-
1000	3.99	34.42	27.35	82.6	1.590	.40	-

STATION 50.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°00'N 127°49'W September 11, 1950 1103 GCT Wire angle: 11° Sounding: 2,510 fms. Depth of observation: 1,167 m. Weather: overcast Sea: rough Wind: 310°, force 2

0	15.99	32.59	23.92	399.6	.0000	5.52	-
10	15.70	32.66	24.04	388.6	.0396	5.77	-
20	15.50	32.80	24.19	374.4	.0779	5.50	-
30	13.45	32.81	24.33	361.9	.1148	5.25	-
50	11.51	32.81	25.00	297.6	.1811	5.93	-
75	10.30	32.94	25.32	268.1	.2522	6.04	-
100	7.94	32.77	25.56	245.4	.3168	5.69	-
150	8.02	33.50	26.12	193.1	.427	4.12	-
200	8.12	33.98	26.48	159.8	.516	2.20	-
250	7.87	34.04	26.56	152.6	.595	1.85	-
300	7.05	34.07	26.70	139.6	.668	1.69	-
400	6.02	34.09	26.85	125.9	.802	1.20	-
500	5.39	34.17	26.99	113.2	.923	.70	-
600	4.99	34.24	27.10	104.2	1.032	.44	-
700	4.63	34.29	27.18	97.2	1.134	.32	-
800	4.25	34.36	27.27	88.4	1.228	.32	-
1000	3.69	34.44	27.39	77.6	1.396	.56	-

STATION 50.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°40'N 128°33'W September 11, 1950 0334 GCT Wire angle: 39° Sounding: 2,600 fms. Depth of observation: 919 m. Weather: partly cloudy Sea: very rough Wind: 350°, 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	18.48	32.90	23.57	433.0	.0000	5.16	-
10	18.45	32.99	23.65	426.1	.0431	5.06	-
20	18.20	32.83	23.58	432.2	.0862	5.73	-
30	18.03	32.84	23.63	427.8	.1294	5.82	-
50	14.22	32.94	24.57	338.7	.2064	6.05	-
75	12.02	32.90	24.98	300.6	.2868	6.03	-
100	10.15	32.88	25.29	270.6	.3586	5.68	-
150	8.46	33.08	25.72	230.6	.485	4.85	-
200	8.08	33.85	26.38	168.9	.585	3.18	-
250	7.73	33.96	26.52	156.5	.667	2.52	-
300	7.05	34.01	26.65	144.1	.743	2.38	-
400	6.32	34.09	26.81	129.8	.881	1.22	-
500	5.31	34.18	27.01	111.5	1.003	.87	-
600	4.86	34.24	27.11	102.6	1.111	.50	-
700	4.50	34.31	27.21	94.1	1.210	.35	-
800	4.15	(34.37)	27.29	86.5	1.301	.32	-
1000	(3.65)	(34.45)	27.41	76.4	1.466	-	-

STATION 50.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°20'N 129°16.5'W September 10, 1950 2003 GCT Wire angle: 14° Sounding: 2,600 fms. Depth of observation: 1,173 m. Weather: cloudy Sea: rough Wind: 360°, force 3

0	18.91	33.03	23.56	433.8	.0000	5.31	-
10	18.82	33.04	23.59	431.2	.0434	5.40	-
20	18.81	33.06	23.61	429.9	.0866	5.18	-
30	18.79	33.06	23.61	429.7	.1298	5.18	-
50	16.05	33.03	24.24	370.2	.2101	6.10	-
75	12.08	32.80	24.89	309.0	.2956	6.71	-
100	10.15	32.75	25.19	280.2	.3697	6.18	-
150	9.26	33.33	25.79	224.2	.497	3.80	-
200	8.49	33.77	26.26	180.8	.599	2.61	-
250	7.87	33.93	26.47	160.7	.685	2.59	-
300	7.37	34.00	26.60	149.2	.763	2.58	-
400	6.37	34.04	26.79	134.1	.906	1.34	-
500	5.14	34.10	26.97	115.3	1.031	.85	-
600	4.65	34.14	27.06	107.5	1.144	.66	-
700	4.37	34.24	27.17	97.8	1.247	.49	-
800	4.10	34.35	27.28	87.4	1.341	.35	-
1000	3.65	34.44	27.40	77.1	1.507	.76	-

STATION 50.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°00'N 130°00'W September 9, 1950 1152 GCT Wire angle: 16° Sounding: 2,680 fms. Depth of observation: 1,079 m. Weather: partly cloudy Sea: very rough Wind: 360°, 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	19.25	33.04	23.48	441.3	.0000	5.08	-
10	19.25	33.06	23.50	440.1	.0442	5.23	-
20	19.25	33.06	23.50	440.5	.0885	5.39	-
30	19.24	33.06	23.50	440.5	.1327	5.45	-
50	17.31	33.06	23.97	395.9	.2167	5.46	-
75	14.32	33.02	24.61	335.5	.3087	5.81	-
100	12.05	32.99	25.04	295.1	.3880	5.92	-
150	9.41	33.14	25.62	240.6	.523	5.01	-
200	8.24	33.76	26.29	177.9	.628	3.86	-
250	7.70	33.98	26.54	154.6	.712	2.82	-
300	7.24	34.03	26.64	145.2	.787	2.19	-
400	5.75	34.06	26.86	124.7	.923	1.70	-
500	5.05	34.12	26.99	112.8	1.043	1.16	-
600	4.60	34.21	27.12	101.7	1.151	.56	-
700	4.35	34.32	27.23	91.6	1.249	.40	-
800	4.06	34.38	27.31	84.7	1.338	.35	-
1000	3.53	34.47	27.43	73.5	1.498	.46	-

STATION 53.54 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°58'N 124°00'W September 6, 1950 2114 GCT Wire angle: 9° Sounding: 210 fms. Depth of observation: 251 m. Weather: overcast Sea: high Wind: 160°, force 2

0	11.84	33.15	25.20	277.2	.0000	6.13	-
10	11.75	33.08	25.17	281.0	.0280	6.13	-
20	11.76	33.00	25.10	287.3	.0566	5.97	-
30	9.44	33.00	25.51	249.2	.0835	5.47	-
50	9.29	33.42	25.86	216.1	.1303	5.07	-
75	8.98	33.71	26.13	190.4	.1813	3.59	-
100	8.51	33.87	26.33	171.9	.2269	3.67	-
150	7.89	33.92	26.46	160.1	.310	2.99	-
200	7.34	33.95	26.57	151.0	.389	2.64	-
250	6.90	33.96	26.64	145.0	.463	2.52	-

STATION 53.64 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°38'N 124°44'W September 7, 1950 0400 GCT Wire angle:13°
Sounding: 2,040 fms. Depth of observation: 1,160 m. Weather: overcast
Sea: high Wind: 300°, 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	12.11	32.84	24.91	304.9	.0000	6.19	-
10	12.07	32.86	24.94	302.9	.0305	6.24	-
20	12.07	32.79	24.88	308.3	.0612	6.13	-
30	9.70	32.74	25.26	272.5	.0904	6.10	-
50	8.54	32.70	25.41	258.3	.1437	6.17	-
75	7.95	32.80	25.58	242.9	.2067	5.80	-
100	8.22	33.17	25.83	219.7	.2649	5.04	-
150	8.20	33.76	26.29	176.4	.365	3.60	-
200	8.09	34.05	26.54	154.2	.448	2.03	-
250	7.25	34.08	26.68	140.9	.502	1.82	-
300	6.49	34.10	26.80	129.9	.590	1.65	-
400	5.86	34.17	26.94	117.9	.715	.85	-
500	5.33	34.24	27.06	107.3	.829	.57	-
600	4.88	34.29	27.15	99.2	.933	.37	-
700	4.56	34.33	27.22	93.4	1.030	.27	-
800	4.27	34.38	27.29	87.2	1.121	.23	-
1000	3.49	34.41	27.39	77.5	1.288	.40	-

STATION 57.54 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°24'N 123°35'W September 6, 1950 1514 GCT Wire angle: 0° Sounding: 120 fms. Depth of observation: 206 m. Weather: overcast
Sea: very rough Wind: 90°, force 2

0	10.28	32.98	25.35	263.3	.0000	6.15	-
10	10.36	33.06	25.40	258.9	.0262	6.12	-
20	8.87	33.01	25.60	239.6	.0512	5.05	-
30	8.90	33.01	25.60	240.3	.0753	5.05	-
50	9.69	33.28	25.68	232.7	.1229	5.63	-
75	9.70	33.41	25.78	223.7	.1802	5.55	-
100	8.86	33.48	25.97	206.1	.2343	4.50	-
150	8.39	33.91	26.38	168.1	.328	3.33	-
200	8.06	34.03	26.52	155.2	.410	2.56	-

STATION 57.64 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 38°04'N 124°19'W September 7, 1950 1020 GCT Wire angle: 10° Sounding: 2,130 fms. Depth of observation: 1,158 m. Weather: overcast Sea: rough Wind: 30°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	10^5 8	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	13.52	32.90	24.68	326.7	.0000	6.16	-
10	13.50	32.88	24.67	328.0	.0329	6.07	-
20	13.50	32.88	24.67	328.3	.0658	6.07	-
30	13.50	32.88	24.67	328.5	.0988	6.06	-
50	10.32	33.19	25.51	249.5	.1569	5.72	-
75	10.04	33.41	25.73	229.2	.2170	5.31	-
100	9.01	33.64	26.07	196.5	.2706	3.61	-
150	8.54	33.96	26.40	166.6	.362	2.26	-
200	7.52	33.96	26.55	152.7	.442	2.78	-
250	6.95	33.99	26.65	143.4	.517	2.21	-
300	6.62	34.05	26.74	135.3	.587	1.57	-
400	5.89	34.12	26.89	122.0	.717	1.01	-
500	5.37	34.15	26.98	114.4	.836	.66	-
600	5.24	34.29	27.11	103.6	.946	.52	-
700	4.88	34.34	27.19	96.5	1.047	.44	-
800	4.46	34.37	27.26	90.2	1.141	.40	-
1000	3.93	34.46	27.39	79.0	1.312	.52	-

STATION 60.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°37'N 123°37'W September 7, 1950 1742 GCT Wire angle: 0° Sounding: 1,870 fms. Depth of observation: 1,199 m. Weather: overcast Sea: rough Wind: 70°, force 1

0	12.86	33.42	25.22	275.9	.0000	5.80	-
10	12.70	33.40	25.23	274.7	.0276	5.80	-
20	12.73	33.41	25.24	274.8	.0552	5.82	-
30	12.73	33.43	25.25	273.5	.0827	5.85	-
50	11.55	33.51	25.54	246.7	.1350	5.84	-
75	9.53	33.68	26.02	201.1	.1913	3.70	-
100	8.64	33.73	26.20	184.2	.2398	3.44	-
150	8.45	34.00	26.44	162.3	.327	2.29	-
200	7.92	34.09	26.59	148.8	.405	1.82	-
250	7.39	34.16	26.72	136.9	.477	1.47	-
300	7.04	34.20	26.80	129.8	.544	1.04	-
400	6.17	34.20	26.92	119.6	.670	.78	-
500	5.66	34.29	27.06	107.7	.785	.67	-
600	5.04	34.27	27.11	102.6	.891	.40	-
700	4.54	34.32	27.21	93.9	.990	.32	-
800	4.23	34.42	27.32	83.7	1.080	.31	-
1000	3.64	34.47	27.42	74.8	1.240	.46	-

STATION 60.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°17'N 124°21'W September 7, 1950 2353 GCT Wire angle: 10° Sounding: 2,200 fms. Depth of observation: 1,179 m. Weather: cloudy Sea: very rough Wind: 80°, 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	11.34	33.31	25.42	256.7	.0000	6.27	-
10	10.86	33.31	25.51	248.7	.0254	6.24	-
20	10.53	33.27	25.53	246.4	.0502	6.04	-
30	10.27	33.24	25.55	244.6	.0749	5.94	-
50	9.82	33.24	25.63	237.7	.1233	5.70	-
75	9.32	33.47	25.89	213.4	.1800	4.37	-
100	8.74	33.63	26.11	193.1	.2312	3.94	-
150	8.02	33.83	26.37	168.6	.322	3.01	-
200	7.38	33.96	26.57	150.8	.403	2.44	-
250	6.88	34.02	26.69	140.2	.476	2.10	-
300	6.49	34.06	26.77	132.8	.545	1.80	-
400	5.94	34.14	26.90	121.1	.673	1.01	-
500	5.59	34.23	27.02	111.2	.790	.57	-
600	5.16	34.32	27.14	100.4	.897	.43	-
700	4.72	34.36	27.22	93.1	.994	.37	-
800	4.32	34.38	27.28	87.8	1.086	.35	-
1000	3.77	34.42	27.37	80.0	1.255	.56	-

STATION 60.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°57'N 125°04'W September 8, 1950 0619 GCT Wire angle: 6° Sounding: 2,400 fms. Depth of observation: 1,187 m. Weather: overcast Sea: very rough Wind: 60°, force 1

0	16.12	32.99	24.20	373.2	.0000	5.79	-
10	15.35	32.99	24.37	357.1	.0367	5.80	-
20	12.90	32.85	24.77	319.1	.0706	6.00	-
30	11.00	32.84	25.12	286.2	.1010	6.12	-
50	9.47	32.95	25.46	253.7	.1553	5.56	-
75	8.82	33.44	25.95	208.0	.2133	4.42	-
100	8.49	33.64	26.15	188.7	.2632	3.60	-
150	7.72	33.86	26.44	162.1	.351	3.02	-
200	7.27	33.98	26.60	147.8	.430	2.96	-
250	6.79	33.98	26.67	142.0	.503	2.67	-
300	6.11	33.98	26.75	133.9	.572	2.02	-
400	5.18	34.02	26.90	120.7	.700	1.54	-
500	4.67	34.12	27.04	108.3	.816	.67	-
600	4.74	34.26	27.14	99.7	.921	.33	-
700	4.46	34.43	27.31	84.8	1.014	.35	-
800	4.10	34.52	27.42	74.8	1.094	.40	-
1000	3.64	34.43	27.39	77.8	1.249	.57	-

STATION 60.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°37'N 125°47'W September 8, 1950 1341 GCT Wire angle: 24° Sounding: 2,480 fms. Depth of observation: 1,123 m. Weather: cloudy Sea: rough Wind: 20°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.94	33.19	24.16	376.6	.0000	5.66	-
10	16.92	33.18	24.16	377.1	.0378	5.62	-
20	16.92	33.20	24.17	376.0	.0756	5.62	-
30	16.92	33.37	24.30	363.9	.1128	5.58	-
50	9.84	33.53	25.85	216.6	.1711	5.19	-
75	8.20	33.54	26.12	191.5	.2224	4.27	-
100	8.46	33.87	26.34	171.2	.2680	2.99	-
150	7.74	34.02	26.56	150.5	.349	2.34	-
200	7.30	34.04	26.64	143.7	.423	2.08	-
250	6.78	34.05	26.72	136.7	.494	1.79	-
300	6.25	34.06	26.80	129.7	.561	1.49	-
400	5.54	34.11	26.93	118.3	.686	.96	-
500	5.08	34.21	27.06	106.4	.799	.65	-
600	4.77	34.30	27.17	97.1	.902	.45	-
700	4.40	34.33	27.23	91.5	.997	.42	-
800	4.04	34.35	27.29	86.7	1.087	.42	-
1000	3.54	34.46	27.43	74.4	1.250	.58	-

STATION 60.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 36°17'N 126°30'W September 8, 1950 2023 GCT Wire angle: 16° Sounding: 2,540 fms. Depth of observation: 1,125 m. Weather: overcast Sea: rough Wind: 360°, force 3

0	16.92	33.11	24.10	382.0	.0000	5.74	-
10	16.92	33.08	24.08	384.4	.0385	5.67	-
20	16.92	33.08	24.08	384.7	.0771	5.58	-
30	16.91	33.08	24.08	384.8	.1157	5.61	-
50	11.67	33.03	25.14	284.2	.1830	6.11	-
75	9.91	33.20	25.58	242.6	.2492	5.11	-
100	8.59	33.38	25.94	209.5	.3060	4.58	-
150	8.04	33.80	26.35	171.1	.402	3.06	-
200	7.68	33.94	26.51	156.5	.484	1.71	-
250	7.12	34.00	26.64	145.0	.560	1.66	-
300	6.48	34.03	26.75	134.9	.631	1.60	-
400	5.66	34.05	26.87	124.3	.761	.93	-
500	5.18	34.17	27.02	110.6	.880	.65	-
600	4.81	34.32	27.18	96.1	.984	.39	-
700	4.49	34.34	27.23	91.8	1.079	.33	-
800	4.20	34.36	27.28	87.8	1.170	.35	-
1000	3.65	34.46	27.41	75.7	1.335	.54	-
							-

STATION 60.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°57'N 127°12'W September 9, 1950 0313 GCT Wire angle: 13° Sounding: 2,620 fms. Depth of observation: 1,171 m. Weather: cloudy Sea: rough Wind: 350°, 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	16.61	32.84	23.97	394.8	.0000	5.53	-
10	16.56	32.84	23.98	394.0	.0396	5.78	-
20	16.31	32.83	24.03	389.5	.0789	5.70	-
30	16.26	32.83	24.04	388.7	.1180	5.70	-
50	14.92	32.92	24.41	354.4	.1927	5.96	-
75	11.93	32.79	24.91	307.1	.2758	6.39	-
100	10.00	32.74	25.21	278.5	.3495	5.74	-
150	8.70	33.10	25.70	232.7	.478	5.08	-
200	8.32	33.66	26.20	186.4	.584	3.76	-
250	7.89	33.90	26.45	163.2	.672	2.71	-
300	7.24	34.01	26.63	146.7	.750	2.05	-
400	6.37	34.07	26.79	131.9	.890	1.34	-
500	5.61	34.15	26.95	117.4	1.016	.82	-
600	5.02	34.23	27.08	105.3	1.128	.67	-
700	4.64	34.30	27.18	96.6	1.230	.49	-
800	4.36	34.34	27.25	91.2	1.325	.39	-
1000	3.68	34.41	27.37	79.7	1.498	.41	-

STATION 60.120 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°37'N 127°54.5'W September 9, 1950 0933 GCT Wire angle: 10° Sounding: 2,610 fms. Depth of observation: 1,170 m. Weather: cloudy Sea: very rough Wind: 350°, force 4

0	18.59	33.03	23.64	426.2	.0000	5.41	-
10	18.57	33.03	23.65	426.0	.0428	5.59	-
20	18.58	33.03	23.64	426.6	.0856	5.31	-
30	18.57	33.03	23.65	426.6	.1284	5.33	-
50	16.77	33.03	24.08	385.9	.2101	5.79	-
75	15.07	32.95	24.40	356.0	.3033	5.97	-
100	12.95	32.88	24.78	319.8	.3883	6.08	-
150	10.35	32.77	25.17	283.0	.540	5.74	-
200	8.91	33.36	25.87	217.5	.666	4.50	-
250	8.23	33.82	26.33	174.1	.765	3.25	-
300	7.67	33.99	26.55	154.2	.847	2.41	-
400	6.41	34.04	26.76	134.7	.993	1.81	-
500	5.78	34.13	26.91	121.1	1.122	.99	-
600	5.13	34.23	27.07	106.7	1.237	.60	-
700	4.62	34.28	27.17	97.8	1.340	.43	-
800	4.25	34.32	27.24	91.4	1.436	.41	-
1000	3.80	34.45	27.39	78.2	1.607	.57	-

STATION 60.130 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 35°17'N 128°37'W September 9, 1950 1628, 1714 GCT
Wire angle: 14°, 33° Sounding: 2,580 fms. Depth of observation: 274, 986 m.
Weather: overcast Sea: very rough Wind: 350°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	10^5 8	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	17.95	32.92	23.71	419.2	.0000	5.30	-
10	17.95	32.95	23.74	417.3	.0420	5.40	-
20	17.95	32.92	23.71	419.8	.0840	5.50	-
30	17.95	32.92	23.71	420.1	.1262	5.54	-
50	17.91	32.92	23.72	419.8	.2106	5.45	-
75	15.55	32.89	24.25	370.4	.3099	6.27	-
100	13.75	32.81	24.57	340.3	.3993	6.11	-
150	9.66	32.92	25.41	260.8	.551	5.80	-
200	8.91	33.37	25.88	216.8	.671	4.55	-
250	8.25	33.86	26.36	171.5	.769	3.20	-
300	7.71	34.00	26.55	154.1	.851	2.43	-
400	6.74	34.07	26.74	136.9	.997	1.24	-
500	5.76	34.12	26.91	121.6	1.128	.50	-
600	5.27	34.21	27.04	109.9	1.244	.45	-
700	4.70	34.29	27.17	98.0	1.349	.45	-
800	4.37	34.38	27.28	88.4	1.443	.54	-
1000	(3.74)	(34.46)	27.41	76.7	1.610	-	-

STATION 61.55 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 37°37'N 123°07.5'W September 6, 1950 0555 GCT Wire angle: 14° Sounding: 460 fms. Depth of observation: 747 m. Weather: overcast
Sea: very rough Wind: 270°, force 2

0	12.10	33.49	25.42	256.8	.0000	5.94	-
10	12.10	33.49	25.42	257.1	.0258	5.45	-
20	12.10	33.49	25.42	257.3	.0516	5.00	-
30	11.35	33.48	25.55	245.0	.0768	4.76	-
50	9.64	33.42	25.80	221.6	.1237	4.57	-
75	8.66	33.68	26.16	187.8	.1752	2.86	-
100	8.93	33.88	26.27	177.5	.2211	2.61	-
150	8.85	33.96	26.35	171.3	.309	2.10	-
200	8.50	34.02	26.45	162.5	.393	1.77	-
250	8.14	34.08	26.55	153.6	.473	1.78	-
300	7.45	34.13	26.69	140.7	.547	1.72	-
400	6.48	34.16	26.85	126.7	.681	1.15	-
500	5.83	34.22	26.98	115.1	.803	.68	-
600	5.32	34.27	27.08	106.1	.915	.46	-
700	4.76	34.37	27.23	92.8	1.015	.42	-

STATION 70.55 (Interpolated Values at Standard Depths)

CREST: 36°03.5'N 122°01.5'W September 7, 1950 0536 GCT Wire angle: 0°
Sounding: 760 fms. Depth of observation: 1,203 m. Weather: partly cloudy
Sea: slight Wind: 090°, 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	13.77	33.42	25.03	293.4	.0000	6.00	(1.14)
10	13.18	33.44	25.17	280.8	.0288	5.89	1.18
20	12.88	33.39	25.19	279.0	.0569	5.68	1.30
30	11.45	33.37	25.45	254.9	.0837	5.38	1.56
50	10.25	33.46	25.73	228.4	.1323	4.62	1.92
75	9.59	33.75	26.07	196.9	.1857	3.80	2.03
100	9.11	33.80	26.18	186.2	.2339	3.09	2.22
150	8.27	33.97	26.45	161.9	.322	2.33	2.48
200	7.96	34.07	26.57	150.8	.400	1.50	2.72
250	7.74	34.13	26.65	144.0	.475	1.19	2.86
300	7.39	34.18	26.74	136.2	.545	1.10	2.93
400	6.72	34.25	26.89	123.3	.676	.70	3.25
500	5.89	34.29	27.03	110.6	.794	.49	3.31
600	5.70	34.31	27.07	108.0	.904	.42	3.38
700	5.31	34.34	27.14	101.9	1.010	.40	3.40
800	4.77	34.38	27.23	93.2	1.109	.32	3.42
1000	4.01	34.45	27.37	80.7	1.284	.39	3.51

STATION 70.60 (Interpolated Values at Standard Depths)

CREST: 35°53'N 122°23'W September 7, 1950 0901 GCT Wire angle: 3°
Sounding: 1,700 fms. Depth of observation: 1,189 m. Weather: overcast
Sea: moderate Wind: 140°, force 1

0	14.76	33.40	24.81	314.6	.0000	6.00	.57
10	14.65	33.33	24.78	317.8	.0317	5.96	.68
20	12.60	33.36	25.22	276.0	.0616	5.75	1.14
30	11.23	33.51	25.60	240.7	.0875	5.25	1.54
50	9.81	33.67	25.97	205.8	.1324	4.03	1.93
75	9.21	33.73	26.11	192.4	.1824	3.46	2.18
100	8.96	33.93	26.31	174.2	.2285	2.52	2.31
150	8.40	34.13	26.55	151.9	.311	2.35	2.49
200	8.19	34.22	26.65	143.1	.385	1.58	2.60
250	7.84	34.24	26.72	137.3	.456	1.35	2.75
300	7.40	34.25	26.79	131.1	.523	1.23	2.92
400	6.69	34.25	26.89	122.8	.651	1.02	3.22
500	5.88	34.34	27.07	106.8	.767	.54	3.36
600	5.27	34.36	27.16	98.8	.871	.43	3.40
700	4.89	34.39	27.23	92.9	.967	.40	3.40
800	4.56	34.42	27.29	87.7	1.059	.40	3.42
1000	3.94	34.50	27.42	76.1	1.224	.25	3.51

STATION 70.70 (Interpolated Values at Standard Depths)

CREST: 35°35'N 123°05.5'W September 7, 1950 1440, 1512 GCT Wire angle: 10°, 15° Sounding: 2,050 fms. Depth of observation: 484, 1,235 m.
Weather: overcast Sea: moderate Wind: 200°, 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	15.89	33.32	24.50	344.1	.0000	5.90	.61
10	15.40	33.35	24.63	331.8	.0339	5.84	.64
20	15.00	33.40	24.76	320.1	.0667	5.85	.72
30	14.79	33.41	24.81	315.3	.0986	5.90	.83
50	12.20	32.88	24.93	304.7	.1609	6.17	1.12
75	9.24	33.14	25.65	236.6	.2289	5.55	1.39
100	8.76	33.48	25.99	204.6	.2844	4.35	1.82
150	7.88	33.77	26.35	171.1	.379	3.26	2.16
200	7.29	34.07	26.67	141.4	.458	2.83	2.46
250	7.11	34.23	26.82	127.8	.525	1.90	2.79
300	6.94	34.31	26.90	120.3	.588	1.12	3.00
400	6.25	34.33	27.01	111.0	.704	.59	3.10
500	5.52	34.28	27.06	106.7	.814	.44	3.13
600	5.16	34.39	27.19	95.2	.916	.40	3.22
700	4.76	34.41	27.26	89.9	1.009	.40	3.28
800	4.41	34.41	27.30	86.6	1.099	.41	3.32
1000	3.83	34.53	27.45	72.6	1.260	.60	3.36

STATION 70.80 (Interpolated Values at Standard Depths)

CREST: 35°16.5'N 123°48'W September 7, 1950 2226, 2022 GCT Wire angle: 4°, 3° Sounding: 2,200 fms. Depth of observation: 1,214, 3,340 m.
Weather: cloudy Sea: very rough Wind: 230°, force 2

0	16.75	33.40	24.37	357.0	.0000	5.82	.42
10	16.68	33.42	24.40	354.3	.0357	5.74	.49
20	16.25	33.41	24.49	345.9	.0709	5.79	.52
30	15.00	33.30	24.68	327.7	.1047	5.82	.60
50	10.01	33.08	25.47	252.6	.1630	5.63	1.30
75	9.84	33.56	25.88	214.9	.2217	4.52	1.75
100	9.14	33.80	26.18	186.6	.2723	3.33	2.13
150	8.24	33.99	26.47	160.0	.339	2.59	2.37
200	8.13	34.19	26.64	144.4	.436	1.72	2.46
250	7.84	34.27	26.75	135.1	.506	1.34	2.53
300	7.38	34.29	26.83	127.9	.573	1.15	2.58
400	6.47	34.29	26.95	116.9	.696	.82	3.05
500	5.58	34.27	27.05	108.2	.810	.59	3.19
600	4.86	34.36	27.21	93.7	.911	.40	3.21
700	4.72	34.45	27.29	86.4	1.002	.51	3.29
800	4.25	34.45	27.34	81.7	1.087	.44	3.39
1000	3.82	34.50	27.43	74.7	1.246	.60	3.40
1200	3.41	34.58	27.53	65.9	1.383	.80	3.34
1500	2.73	34.65	27.65	54.8	1.566	1.22	3.33
2000	2.06	34.71	27.76	44.7	1.819	1.69	3.13
2500	1.76	34.78	27.83	37.7	2.028	2.31	2.97
3000	1.64	34.74	27.82	40.6	2.228	2.84	2.91

STATION 70.90 (Interpolated Values at Standard Depths)

CREST: 34°57.5'N 124°31'W September 8, 1950 0406 GCT Wire angle: 0°
Sounding: 2,350 fms. Depth of observation: 1,198 m. Weather: overcast
Sea: very rough Wind: 240°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.77	33.24	24.24	369.1	.0000	5.85	.52
10	16.72	33.29	24.29	364.7	.0368	5.75	.53
20	16.67	33.30	24.30	363.1	.0734	5.75	.61
30	16.63	33.21	24.25	369.1	.1101	5.87	.72
50	12.32	33.04	25.03	295.1	.1769	5.85	1.00
75	10.05	33.06	25.45	255.2	.2467	5.20	1.36
100	9.30	33.33	25.79	223.9	.3063	4.72	1.64
150	8.58	33.65	26.15	190.2	.411	4.15	2.04
200	7.95	34.02	26.53	154.4	.497	2.65	2.35
250	7.23	34.09	26.69	139.8	.571	2.10	2.55
300	6.68	34.11	26.78	131.6	.640	1.67	2.72
400	5.82	34.14	26.92	119.6	.766	.93	3.13
500	5.26	34.23	27.06	107.1	.881	.67	3.27
600	5.08	34.29	27.13	101.6	986	.25	3.32
700	4.65	34.35	27.22	93.0	1.084	.31	3.36
800	4.19	34.40	27.31	84.7	1.174	.43	3.40
1000	3.65	34.58	27.51	66.8	1.327	.65	3.44

STATION 70.100 (Interpolated Values at Standard Depths)

CREST: 34°39'N 125°13.5'W September 8, 1950 0928 GCT Wire angle: 15°
Sounding: 2,470 fms. Depth of observation: 1,245 m. Weather: overcast
Sea: very rough Wind: 320°, force 3

0	18.01	33.26	23.96	395.8	.0000	5.45	.61
10	18.03	33.28	23.97	395.1	.0397	5.42	.54
20	18.02	33.28	23.97	395.2	.0794	5.39	.56
30	18.00	33.27	23.97	395.8	.1191	5.36	.70
50	11.75	33.23	25.28	270.9	.1861	5.29	1.20
75	9.25	33.38	25.83	218.9	.2477	4.55	1.71
100	8.76	33.64	26.11	192.7	.2994	3.56	1.98
150	8.18	33.92	26.42	164.3	.389	2.89	2.35
200	7.61	34.02	26.58	149.5	.468	2.35	2.58
250	6.96	34.03	26.68	140.6	.541	2.05	2.70
300	6.26	34.00	26.75	134.3	.611	1.90	2.79
400	5.29	34.09	26.94	116.8	.737	1.05	3.18
500	5.20	34.21	27.05	107.9	.850	.45	3.43
600	4.89	34.28	27.14	100.0	.955	.40	3.52
700	4.40	34.35	27.25	90.0	1.051	.41	3.56
800	4.04	34.39	27.32	83.7	1.139	.45	3.56
1000	3.52	34.46	27.43	74.1	1.299	.59	3.45

STATION 70.110 (Interpolated Values at Standard Depths)

CREST: 34°20'N 125°55.5'W September 8, 1950 1505 GCT Wire angle: 45°
Sounding: 2,500 fms. Depth of observation: 798 m. Weather: overcast
Sea: very rough Wind: 320°, 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	17.58	33.03	23.89	402.7	.0000	5.64	.65
10	17.60	33.04	23.89	402.7	.0404	5.51	.68
20	17.55	33.03	23.89	402.6	.0809	5.65	.73
30	17.55	33.01	23.88	404.4	.1214	5.86	.82
50	12.25	32.78	24.84	313.0	.1935	6.18	1.05
75	10.05	32.77	25.23	276.6	.2676	5.92	1.30
100	9.55	32.87	25,39	261.8	.3353	5.17	1.62
150	8.50	33.71	26.21	184.5	.448	3.52	2.46
200	7.90	33.99	26.52	155.9	.533	2.83	2.74
250	7.18	34.00	26.63	145.8	.609	2.34	2.85
300	6.61	34.03	26.73	136.7	.680	1.91	2.89
400	5.75	34.12	26.91	120.2	.810	.91	3.27
500	5.45	34.23	27.03	109.5	.926	.49	3.40
600	4.82	34.26	27.13	100.7	1.032	.37	3.40
700	4.41	34.32	27.22	92.3	1.129	.39	3.41
800	(4.19)	(34.38)	27.30	86.2	1.219	(.43)	(3.41)
1000	(3.78)	(34.46)	27.40	77.2	1.385	-	-

STATION 70.120 (Interpolated Values at Standard Depths)

CREST: 34°01'N 126°38'W September 8, 1950 2043 GCT Wire angle: 18°
Sounding: 2,580 fms. Depth of observation: 1,290 m. Weather: cloudy
Sea: rough Wind: 330°, force 4

0	18.77	33.19	23.72	418.8	.0000	5.45	.44
10	18.73	33.22	23.75	416.0	.0419	5.50	.40
20	18.70	33.24	23.77	414.1	.0836	5.40	.49
30	18.68	33.24	23.78	414.0	.1252	5.33	.52
50	15.85	33.06	24.31	363.7	.2033	5.60	.54
75	11.65	32.98	25.11	288.1	.2852	6.07	.66
100	10.65	32.99	25.29	270.7	.3555	5.97	.98
150	8.61	33.35	25.91	212.8	.477	5.10	1.42
200	8.12	33.78	26.32	174.6	.575	4.35	1.74
250	7.87	33.96	26.50	158.5	.659	3.70	2.05
300	7.20	34.04	26.66	143.9	.735	3.08	2.35
400	5.78	34.18	26.95	116.1	.866	1.90	2.96
500	5.20	34.20	27.04	108.6	.979	.94	3.21
600	4.70	34.24	27.13	100.7	1.085	.55	3.25
700	4.37	34.34	27.24	90.4	1.181	.41	3.33
800	4.11	34.42	27.34	82.3	1.269	.37	3.53
1000	3.58	34.51	27.39	78.3	1.431	.48	3.51

STATION 70.130 (Interpolated Values at Standard Depths)

CREST: 33°33'N 127°16.5'W September 9, 1950 0208 GCT Wire angle: 16°
Sounding: 2,400 fms. Depth of observation: 1,235 m. Weather: cloudy
Sea: rough Wind: 320°, 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	19.42	33.24	23.59	430.9	.0000	5.37	.47
10	19.43	33.24	23.59	431.4	.0433	5.06	.42
20	19.40	33.26	23.61	429.6	.0865	5.07	.47
30	19.30	33.28	23.65	426.0	.1295	5.20	.49
50	15.65	33.18	24.45	350.6	.2075	5.65	.46
75	13.25	33.12	24.91	307.2	.2902	5.87	.49
100	11.30	32.91	25.12	287.7	.3650	5.88	.63
150	9.62	33.06	25.52	249.8	.500	5.20	1.14
200	8.61	33.79	26.25	181.1	.609	4.97	1.47
250	7.93	33.89	26.43	164.6	.696	4.05	1.93
300	7.30	33.97	26.59	150.5	.775	3.07	2.38
400	5.95	34.06	26.84	127.2	.915	1.82	2.98
500	5.19	34.19	27.03	109.3	1.034	.87	3.36
600	4.77	34.26	27.14	100.1	1.140	.53	3.53
700	4.45	34.33	27.23	92.1	1.237	.44	3.59
800	4.16	34.38	27.30	85.9	1.327	.38	3.60
1000	3.69	34.53	27.47	70.9	1.485	.59	3.57

STATION 70.145 (Interpolated Values at Standard Depths)

CREST: 33°05.5'N 128°20'W September 9, 1950 0941 GCT Wire angle: 25°
Sounding: 2,400 fms. Depth of observation: 1,069 m. Weather: cloudy
Sea: rough Wind: 360°, force 2-3

0	19.74	33.50	23.71	419.8	.0000	5.38	.35
10	19.74	33.54	23.74	417.3	.0420	4.96	.37
20	19.74	33.56	23.75	416.2	.0839	5.16	.39
30	19.74	33.58	23.77	415.0	.1256	5.26	.42
50	18.50	33.57	24.08	386.4	.2061	5.16	.43
75	15.32	33.34	24.64	332.7	.2965	5.71	.39
100	13.75	33.26	24.92	307.3	.3770	5.58	.53
150	11.11	33.34	25.48	253.8	.518	5.10	1.02
200	9.62	33.78	26.08	197.6	.632	3.98	1.74
250	8.43	33.96	26.41	166.7	.724	3.11	2.11
300	7.85	34.03	26.56	153.9	.804	2.45	2.40
400	6.17	34.10	26.84	127.0	.946	1.83	2.81
500	5.43	34.13	26.96	116.7	1.069	1.04	3.07
600	4.79	34.19	27.08	105.5	1.181	.60	3.23
700	4.28	34.30	27.22	92.3	1.281	.45	3.30
800	4.11	34.37	27.30	86.0	1.371	.45	3.36
1000	3.75	34.48	27.42	75.4	1.534	.58	3.37

STATION 70.160 (Interpolated Values at Standard Depths)

CREST: 32°40'N 129°24'W September 9, 1950 1702 GCT Wire angle: 20°
Sounding: 2,400 fms. Depth of observation: 1,201 m. Weather: cloudy
Sea: 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	20.17	33.71	23.76	415.3	.0000	5.44	.35
10	20.20	33.69	23.73	417.9	.0418	4.89	.36
20	20.16	33.68	23.73	417.9	.0838	5.18	.42
30	20.13	33.66	23.73	419.0	.1258	5.40	.42
50	19.80	33.55	23.73	419.4	.2100	5.66	.40
75	15.50	33.40	24.65	332.1	.3045	5.72	.47
100	15.80	33.92	24.98	301.3	.3842	5.60	.42
150	12.70	33.64	25.42	260.5	.526	5.37	.76
200	10.44	33.83	25.98	207.4	.643	4.80	1.36
250	8.92	33.93	26.31	176.4	.740	4.32	1.72
300	7.93	33.99	26.51	158.0	.824	3.87	2.00
400	6.36	34.13	26.84	127.3	.968	2.39	2.83
500	5.18	34.13	26.99	113.6	1.090	1.50	3.26
600	4.65	34.27	27.16	97.9	1.196	.87	3.35
700	4.44	34.35	27.24	90.4	1.291	.55	3.42
800	4.25	34.40	27.30	85.4	1.380	.45	3.50
1000	3.75	34.47	27.41	76.1	1.543	.70	3.58

STATION 70.175 (Interpolated Values at Standard Depths)

CREST: 32°03'N 130°21'W September 10, 1950 0223, 0013 GCT Wire angle:
14°, 19° Sounding: 2,400 fms. Depth of observation: 1,180, 3,299 m.
Weather: cloudy Sea: moderate Wind: 340°, force 4

0	20.65	33.89	23.76	414.4	.0000	5.10	.33
10	20.67	33.89	23.76	415.2	.0416	5.28	.35
20	20.62	33.91	23.79	412.9	.0832	5.13	.41
30	20.57	33.90	23.79	412.7	.1247	5.18	.42
50	17.15	33.62	24.44	351.5	.2014	5.50	.39
75	16.08	33.59	24.67	330.7	.2872	5.61	.45
100	15.85	33.80	24.88	311.1	.3679	5.48	.37
150	13.10	33.67	25.36	265.9	.513	5.30	.62
200	9.70	33.57	25.91	214.4	.634	4.59	1.39
250	8.75	33.71	26.17	190.1	.736	3.16	1.93
300	7.94	34.04	26.55	154.4	.823	2.75	2.26
400	6.30	34.06	26.79	131.7	.967	2.60	2.50
500	5.33	34.15	26.99	113.9	1.091	1.34	3.04
600	4.83	34.27	27.14	100.0	1.199	.71	3.29
700	4.48	34.33	27.22	92.4	1.296	.54	3.35
800	4.20	34.42	27.33	83.4	1.385	.55	3.37
1000	3.84	34.49	27.42	75.7	1.546	.66	3.38
1200	3.34	34.53	27.50	68.8	1.641	.93	3.38
1500	2.75	34.56	27.58	61.5	1.839	1.26	3.48
2000	2.07	34.60	27.67	53.1	2.130	1.85	3.30
2500	1.77	34.63	27.72	48.8	2.389	2.11	3.10
3000	1.58	34.68	27.77	44.1	2.626	2.50	2.96

STATION 70.190 (Interpolated Values at Standard Depths)

CREST: 31°35'N 131°29'W September 10, 1950 1100 GCT Wire angle: 25°
Sounding: 2,500 fms. Depth of observation: 914 m. Weather: overcast
Sea: rough Wind: 360°, 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	20.62	33.77	23.68	422.3	.0000	5.27	.43
10	20.63	33.69	23.62	428.7	.0427	5.20	.41
20	20.62	33.73	23.65	425.9	.0856	5.25	.43
30	20.57	33.69	23.63	427.9	.1285	5.43	.45
50	16.85	33.47	24.40	355.6	.2072	5.88	.45
75	16.03	33.47	24.59	338.4	.2945	5.95	.40
100	15.63	33.69	24.84	314.4	.3765	5.77	.41
150	12.99	33.77	25.46	256.5	.520	5.50	.42
200	10.75	33.75	25.87	218.5	.640	4.66	.67
250	8.99	33.97	26.33	174.6	.739	4.02	.96
300	7.81	33.99	26.53	156.3	.822	3.64	1.37
400	6.70	34.05	26.73	137.8	.970	2.65	2.13
500	5.80	34.14	26.92	120.6	1.101	1.25	2.77
600	4.99	34.20	27.06	107.2	1.216	.75	3.19
700	4.52	34.31	27.20	94.4	1.317	.47	3.31
800	4.27	34.41	27.31	84.9	1.408	.48	3.39
1000	(3.88)	(34.48)	27.41	76.9	1.572	-	-

STATION 70.205 (Interpolated Values at Standard Depths)

CREST: 30°56.5'N 132°27'W September 10, 1950 1829 GCT Wire angle: 18°
Sounding: 2,560 fms. Depth of observation: 1,221 m. Weather: cloudy
Sea: moderate Wind: 360°, force 3

0	21.51	34.11	23.70	420.7	.0000	5.56	.34
10	21.52	34.11	23.70	421.3	.0423	5.70	.29
20	21.51	34.13	23.72	420.8	.0845	5.67	.33
30	21.48	34.13	23.72	419.5	.1266	5.50	.35
50	18.98	34.04	24.31	363.7	.2054	4.84	.37
75	16.35	33.81	24.77	320.5	.2914	4.97	.37
100	15.85	33.95	24.99	300.2	.3695	5.01	.40
150	13.60	33.75	25.32	269.8	.513	5.20	.59
200	10.19	33.77	25.98	207.6	.633	4.80	1.22
250	9.15	33.91	26.26	181.5	.731	4.62	1.56
300	8.37	34.06	26.50	159.3	.817	4.48	1.79
400	6.70	34.04	26.72	138.5	.967	3.10	2.42
500	5.45	34.13	26.95	116.9	1.096	1.78	3.06
600	4.75	34.14	27.04	108.7	1.210	1.03	3.28
700	4.39	34.18	27.12	102.5	1.316	.72	3.36
800	4.14	34.25	27.20	95.3	1.416	.63	3.43
1000	3.64	34.44	27.40	77.0	1.590	.65	3.47

STATION 70.220 (Interpolated Values at Standard Depths)

CREST: 30°33'N 133°23'W September 11, 1950 0050 GCT Wire angle: 17°
Sounding: 2,500 fms. Depth of observation: 1,234 m. Weather: partly cloudy
Sea: moderate Wind: 060°, 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	21.92	34.00	23.50	439.4	.0000	5.05	.47
10	21.73	33.96	23.52	437.7	.0440	5.07	.43
20	21.73	33.97	23.53	437.3	.0880	4.93	.39
30	21.50	33.99	23.61	430.2	.1315	5.07	.37
50	18.09	34.01	24.51	344.7	.2094	5.71	.35
75	17.64	34.22	24.78	319.8	.2929	5.55	.33
100	17.26	34.25	24.90	309.7	.3721	5.45	.35
150	15.85	34.23	25.21	281.3	.521	4.80	.43
200	12.50	33.87	25.64	241.1	.652	4.88	.80
250	10.24	33.92	26.09	198.4	.763	4.67	1.43
300	8.65	34.03	26.43	165.8	.855	4.15	1.83
400	6.81	34.05	26.72	139.3	1.009	2.75	2.81
500	6.01	34.16	26.91	121.8	1.140	1.60	3.45
600	4.96	34.18	27.05	108.3	1.256	.94	3.68
700	4.49	34.23	27.14	99.9	1.361	.66	3.70
800	4.26	34.34	27.26	90.0	1.457	.58	3.72
1000	3.73	34.45	27.40	77.3	1.627	.73	3.67

STATION 70.235 (Interpolated Values at Standard Depths)

CREST: 30°02'N 134°23'W September 11, 1950 0739 GCT Wire angle: 2°
Sounding: 2,530 fms. Depth of observation: 1,203 m. Weather: rain
Sea: slight Wind: 20°, force 1

0	21.45	33.91	23.56	433.6	.0000	5.10	.38
10	21.45	33.93	23.58	432.5	.0435	5.10	.36
20	21.37	33.90	23.58	432.9	.0869	5.10	.36
30	20.27	34.00	23.95	397.8	.1286	5.12	.35
50	20.15	34.56	24.41	354.9	.2043	5.45	.24
75	18.10	34.40	24.81	317.4	.2888	5.60	.23
100	17.60	34.47	24.98	301.5	.3667	5.32	.29
150	16.00	34.31	25.24	278.7	.513	5.27	.41
200	12.50	33.98	25.72	233.0	.642	4.92	1.33
250	10.33	34.08	26.20	188.2	.748	4.72	1.58
300	8.98	34.18	26.50	159.8	.835	4.49	1.76
400	7.28	34.00	26.61	149.5	.991	3.51	2.32
500	6.00	34.07	26.84	128.4	1.131	2.33	2.82
600	5.03	34.20	27.06	107.7	1.250	1.09	3.36
700	4.52	34.33	27.22	92.9	1.352	.81	3.49
800	4.17	34.42	27.33	83.0	1.440	.74	3.55
1000	3.67	34.54	27.48	70.0	1.595	.67	3.67

STATION 70.250 (Interpolated Values at Standard Depths)

CREST: 29°37'N 135°22'W September 11, 1950 1454 GCT Wire angle: 7°
Sounding: 2,530 fms. Depth of observation: 1,194 m. Weather: drizzle
Sea: moderate Wind: calm

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	22.00	34.72	24.03	389.5	.0000	5.06	.24
10	22.01	34.90	24.16	377.1	.0385	5.08	.26
20	22.00	34.89	24.15	378.0	.0764	5.01	.22
30	21.98	34.84	24.12	381.4	.1145	4.98	.19
50	20.85	34.79	24.39	356.1	.1886	5.29	.15
75	20.51	34.97	24.62	335.3	.2755	5.45	.16
100	19.04	34.68	24.79	320.5	.3580	5.35	.18
150	15.92	34.23	25.19	282.8	.510	5.01	.39
200	13.25	34.14	25.70	235.7	.640	4.97	.80
250	10.77	34.10	26.14	194.2	.749	4.80	1.30
300	9.30	34.05	26.35	174.5	.842	4.37	1.69
400	7.48	34.00	26.59	152.4	1.006	3.35	2.23
500	6.07	34.07	26.83	129.3	1.148	2.10	2.84
600	5.06	34.13	27.00	113.2	1.271	1.15	3.34
700	4.55	34.23	27.14	100.7	1.379	.65	3.48
800	4.19	34.33	27.26	89.9	1.475	.52	3.53
1000	3.63	34.45	27.41	76.2	1.643	.55	3.56

STATION 70.265 (Interpolated Values at Standard Depths)

CREST: 29°10'N 136°18.5'W September 11, 1950 2110 GCT Wire angle: 10°
Sounding: 2,150 fms. Depth of observation: 1,172 m. Weather: partly cloudy
Sea: moderate Wind 60°, force

0	21.51	34.34	23.87	404.0	.0000	4.93	.32
10	22.38	34.36	23.65	426.1	.0417	5.04	.34
20	22.54	34.75	23.90	402.6	.0833	5.02	.30
30	22.58	34.92	24.01	391.7	.1231	5.01	.29
50	20.79	34.92	24.51	345.2	.1972	5.14	.30
75	19.75	34.96	24.82	316.8	.2804	5.32	.30
100	17.85	34.50	24.95	305.1	.3587	5.23	.40
150	16.95	34.27	24.99	302.7	.512	4.97	.46
200	13.95	34.13	25.54	250.3	.651	4.83	.76
250	11.33	34.04	25.99	208.4	.766	4.73	1.23
300	9.60	34.00	26.26	183.0	.865	4.61	1.55
400	7.75	34.04	26.58	153.3	1.035	3.99	2.20
500	6.15	34.02	26.78	134.0	1.179	2.33	2.99
600	5.19	34.09	26.95	117.8	1.306	1.40	3.12
700	4.61	34.20	27.11	103.6	1.418	.69	3.50
800	4.15	34.32	27.25	90.2	1.516	.49	3.68
1000	3.64	34.49	27.44	73.3	1.681	.71	3.68

STATION 70.280 (Interpolated Values at Standard Depths)

CREST: 28°33'N 137°20.5'W September 12, 1950 0713, 0457 GCT Wire angle: 16°, 14° Sounding: 2,580 fms. Depth of observation: 1,169, 2,905 m. Weather: cloudy Sea: moderate Wind: 090°, 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	22.31	35.02	24.17	376.1	.0000	4.85	!20
10	22.30	35.04	24.18	374.8	.0377	4.87	.21
20	22.25	35.05	24.21	373.1	.0752	4.77	.19
30	22.17	35.09	24.26	368.5	.1125	4.66	.15
50	21.15	35.16	24.59	337.2	.1834	4.65	.12
75	20.56	35.14	24.74	324.3	.2665	4.77	.12
100	19.27	35.06	25.02	298.6	.3449	5.00	.16
150	18.39	34.96	25.16	286.2	.492	4.93	.25
200	14.90	34.38	25.53	251.5	.627	4.69	.55
250	11.90	34.13	25.95	212.1	.744	4.65	1.00
300	10.08	34.06	26.22	186.5	.845	4.55	1.40
400	7.84	34.04	26.56	154.6	1.017	3.58	1.93
500	6.11	34.02	26.79	133.5	1.162	2.48	2.71
600	5.14	34.08	26.95	117.9	1.289	1.37	3.11
700	4.61	34.21	27.12	102.9	1.400	.67	3.42
800	4.16	34.30	27.23	91.8	1.498	.56	3.51
1000	3.60	34.45	27.41	75.8	1.668	.62	3.49
1200	3.19	34.54	27.52	66.0	1.811	1.04	3.46
1500	2.66	34.57	27.60	59.7	2.003	1.40	(3.48
2000	2.00	34.61	27.68	51.4	2.285	1.91	(3.40
2500	1.68	34.65	27.74	46.4	2.533	2.30	(3.24

STATION 90.30 (Interpolated Values at Standard Depths)

CREST: 33°24'N 117°55'W September 19, 1950 0323 GCT Wire angle: 20° Sounding: 340 fms. Depth of observation: 476 m. Weather: partly cloudy Sea: moderate Wind: 320°, force 4

0	19.32	33.62	23.91	400.8	.0000	5.49	.50
10	19.31	33.60	23.89	402.4	.0403	5.55	.59
20	17.00	33.55	24.42	352.3	.0782	6.03	1.00
30	15.00	33.35	24.72	324.0	.1122	5.85	1.32
50	11.52	33.28	25.36	263.2	.1712	5.23	1.61
75	10.64	33.49	25.68	233.1	.2335	4.55	2.02
100	9.92	33.63	25.92	211.5	.2895	3.97	2.33
150	8.98	33.84	26.23	182.1	.389	3.15	2.45
200	8.43	34.00	26.45	162.9	.475	2.41	2.58
250	7.75	34.10	26.63	146.4	.553	1.70	2.88
300	7.49	34.17	26.72	138.3	.625	1.21	3.12
400	7.01	34.21	26.82	130.2	.760	.70	3.24

STATION 90.37 (Interpolated Values at Standard Depths)

CREST: 33°11'N 118°23'W September 18, 1950 2209 GCT Wire angle: 15°
Sounding: 663 fms. Depth of observation: 973 m. Weather: partly cloudy
Sea: moderate Wind: 140°, 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	18.78	33.55	23.99	392.9	.0000	5.45	.54
10	18.38	33.55	24.09	383.7	.0390	5.52	.57
20	17.75	33.54	24.24	370.1	.0768	5.68	.52
30	15.10	33.45	24.78	318.8	.1114	5.67	.52
50	12.44	33.42	25.30	269.4	.1705	5.36	1.16
75	11.05	33.52	25.64	237.9	.2343	4.65	1.43
100	10.10	33.66	25.91	212.2	.2909	3.71	1.83
150	8.97	33.90	26.28	177.6	.389	2.70	2.23
200	8.36	34.01	26.46	161.1	.474	2.25	2.38
250	7.99	34.11	26.60	149.1	.552	1.75	2.46
300	7.67	34.17	26.69	140.9	.625	1.23	2.61
400	6.97	34.26	26.86	125.9	.760	.62	3.22
500	6.43	34.29	26.96	117.8	.883	.51	3.48
600	5.83	34.31	27.05	109.6	.998	.35	3.47
700	5.35	34.35	27.14	101.7	1.104	.30	3.66
800	4.84	34.41	27.25	91.9	1.202	.45	3.56
1000	(4.20)	(34.43)	27.33	84.5	1.380	(.45)	(3.55)

STATION 90.45 (Interpolated Values at Standard Depths)

CREST: 32°57'N 118°55.5'W September 18, 1950 1746 GCT Wire angle: 13°
Sounding: 940 fms. Depth of observation: 1,171 m. Weather: partly cloudy
Sea: moderate Wind: 140°, force 1

0	17.11	33.51	24.37	357.0	.0000	5.87	.55
10	15.92	33.51	24.64	331.2	.0345	6.00	.60
20	13.00	33.28	25.08	289.4	.0657	5.84	.68
30	10.92	33.26	25.46	253.9	.0930	5.55	.77
50	10.26	33.39	25.67	233.7	.1420	4.90	1.03
75	10.00	33.69	25.95	207.8	.1975	3.75	1.86
100	9.37	33.79	26.13	190.9	.2476	3.19	2.05
150	8.59	33.99	26.41	165.1	.337	2.47	2.33
200	8.12	34.12	26.59	149.4	.416	1.85	2.80
250	7.79	34.20	26.70	139.6	.489	1.38	3.07
300	7.48	34.23	26.77	133.7	.558	1.10	3.20
400	6.92	34.22	26.84	128.2	.690	.88	3.21
500	6.45	34.27	26.94	119.5	.815	.61	3.29
600	5.84	34.34	27.07	107.6	.930	.49	3.42
700	5.34	34.36	27.15	100.8	1.035	.43	3.42
800	4.85	34.37	27.21	95.0	1.134	.43	3.43
1000	4.14	34.46	27.36	81.5	1.312	.56	3.43

STATION 90.53 (Interpolated Values at Standard Depths)

CREST: 32°39.5'N 119°29'W September 18, 1950 1327 GCT Wire angle: 3°
Sounding: 720 fms. Depth of observation: 1,201 m. Weather: partly cloudy
Sea: moderate Wind: 140°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	16.37	33.40	24.45	348.7	.0000	5.42	.54
10	15.83	33.35	24.54	340.9	.0346	5.20	.64
20	15.38	33.33	24.62	333.1	.0685	5.38	.67
30	15.06	33.33	24.69	326.7	.1016	5.34	.74
50	11.90	33.42	25.40	259.6	.1605	4.82	1.20
75	9.89	33.38	25.73	229.0	.2219	4.23	1.61
100	9.68	33.60	25.93	209.9	.2771	3.87	1.84
150	8.88	33.88	26.28	177.7	.375	2.48	2.22
200	8.35	34.04	26.49	158.7	.459	1.91	2.57
250	7.79	34.08	26.60	148.5	.537	1.58	2.74
300	7.34	34.09	26.68	142.2	.610	1.30	2.88
400	6.76	34.22	26.86	126.0	.745	.75	3.17
500	6.29	34.20	26.91	122.6	.870	.40	3.35
600	5.87	34.31	27.05	110.2	.988	.40	3.44
700	5.23	34.37	27.17	98.7	1.093	.40	3.48
800	4.59	34.40	27.27	89.5	1.188	.40	3.51
1000	4.00	34.54	27.44	73.9	1.354	.55	3.51

STATION 90.60 (Interpolated Values at Standard Depths)

CREST: 32°30.5'N 119°54.5'W September 18, 1950 0934 GCT Wire angle: 0°
Sounding: 900 fms. Depth of observation: 1,201 m. Weather: partly cloudy
Sea: moderate Wind: calm

0	17.70	33.26	24.03	388.7	.0000	5.50	.45
10	17.48	33.26	24.09	383.9	.0388	5.61	.62
20	17.40	33.24	24.09	383.9	.0773	5.25	.60
30	17.34	33.23	24.10	383.6	.1159	5.22	.59
50	14.40	33.37	24.87	310.9	.1856	6.08	.66
75	11.78	33.17	25.23	276.4	.2595	5.57	1.01
100	10.27	33.38	25.66	235.6	.3239	4.66	1.52
150	8.85	33.70	26.15	190.5	.431	3.26	2.13
200	8.12	33.93	26.44	163.5	.520	2.59	2.58
250	7.61	34.03	26.59	149.6	.599	1.96	2.82
300	7.14	34.09	26.70	139.4	.672	1.42	2.99
400	6.38	34.18	26.88	123.9	.805	.64	3.35
500	5.83	34.29	27.03	109.8	.922	.35	3.41
600	5.48	34.33	27.11	103.6	1.030	.33	3.48
700	5.15	34.35	27.16	99.1	1.133	.35	3.52
800	4.79	34.37	27.22	94.2	1.230	.38	3.53
1000	4.03	(34.45)	27.37	80.9	1.407	.56	(3.53)

STATION 90.70 (Interpolated Values at Standard Depths)

CREST: 32°11'N 120°36'W September 18, 1950 0413 GCT Wire angle: 2°
Sounding: 2,060 fms. Depth of observation: 1,200 m. Weather: partly cloudy
Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	18.05	33.24	23.93	398.2	.0000	5.25	.52
10	17.63	33.28	24.07	385.9	.0394	5.42	.50
20	17.43	33.26	24.10	383.1	.0780	5.48	.50
30	17.28	33.22	24.10	382.9	.1164	5.50	.53
50	13.55	33.22	24.93	305.0	.1856	5.43	.64
75	11.07	33.30	25.46	254.4	.2559	5.08	1.20
100	9.77	33.47	25.82	220.9	.3157	4.17	1.63
150	8.75	33.82	26.25	180.1	.417	2.95	2.10
200	8.11	33.97	26.47	160.4	.502	2.36	2.46
250	7.59	34.03	26.59	149.3	.580	1.81	2.81
300	7.18	34.04	26.66	143.6	.654	1.37	3.05
400	6.64	34.18	26.84	127.3	.791	.73	3.25
500	6.13	34.27	26.98	115.3	.913	.41	3.45
600	5.65	34.23	27.01	113.2	1.028	.34	3.64
700	5.18	34.30	27.12	103.2	1.138	.35	3.65
800	4.75	34.39	27.24	92.3	1.236	.40	3.65
1000	4.07	34.38	27.31	86.6	1.417	.67	3.57

STATION 90.80 (Interpolated Values at Standard Depths)

CREST: 31°48.5'N 121°18'W September 17, 1950 2352, 2205 GCT Wire angles: 2°, 0° Sounding: 2,200 fms. Depths of observation: 1,198, 2,420 m. Weather: partly cloudy Sea: slight Wind: calm

0	19.05	33.50	23.88	403.9	.0000	5.27	.47
10	18.50	33.46	23.99	393.1	.0400	5.25	.49
20	18.30	33.44	24.03	390.1	.0793	5.34	.45
30	18.15	33.43	24.05	387.7	.1183	5.50	.43
50	14.87	33.12	24.57	338.7	.1913	5.82	.53
75	13.05	33.22	25.03	296.1	.2711	5.76	.76
100	11.23	33.40	25.51	250.4	.3399	4.62	.79
150	9.00	33.67	26.10	195.0	.451	3.38	1.26
200	8.23	33.93	26.42	165.1	.543	2.54	2.20
250	7.73	34.05	26.59	149.8	.622	1.88	2.63
300	7.22	34.09	26.69	140.5	.695	1.36	2.85
400	6.42	34.12	26.83	128.9	.831	.72	3.19
500	5.90	34.23	26.98	115.2	.954	.35	3.30
600	5.42	34.34	27.12	102.1	1.064	.34	3.42
700	4.91	34.34	27.18	96.9	1.164	.39	3.46
800	4.57	34.40	27.27	89.3	1.258	.45	3.46
1000	3.91	34.51	27.43	75.0	1.424	.60	3.39
1200	3.36	34.51	27.48	70.2	1.571	.90	3.88
1500	2.78	34.51	27.54	65.6	1.777	1.33	3.34
2000	2.10	34.61	27.67	52.7	2.078	2.10	3.12

STATION 90.90 (Interpolated Values at Standard Depths)

CREST: 31°25'N 122°01'W September 17, 1950 1552 GCT Wire angle: 0°
Sounding: 2,230 fms. Depth of observation: 1,196 m. Weather: partly cloudy
Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	18.58	33.14	23.73	417.9	.0000	5.04	.60
10	18.25	33.15	23.82	409.7	.0415	5.04	.65
20	18.05	33.14	23.86	406.1	.0825	5.05	.63
30	17.91	33.11	23.87	405.4	.1232	5.14	.60
50	15.25	33.08	24.46	349.5	.1991	5.33	.58
75	12.98	32.97	24.85	313.1	.2824	5.10	.69
100	11.05	32.89	25.15	284.9	.3576	5.52	1.02
150	9.34	33.33	25.78	225.4	.486	4.95	1.45
200	8.45	33.75	26.25	181.7	.589	4.11	1.82
250	7.88	33.90	26.45	163.1	.675	3.37	2.30
300	7.32	33.96	26.58	151.5	.755	2.74	2.84
400	6.08	34.05	26.81	129.6	.896	1.45	3.14
500	5.40	34.14	26.97	115.5	1.020	.73	3.52
600	4.70	34.13	27.04	108.9	1.133	.51	3.59
700	4.35	34.23	27.16	98.3	1.238	.50	3.67
800	4.14	34.34	27.27	88.6	1.332	.53	3.70
1000	3.71	34.37	27.34	83.0	1.506	.57	3.54

STATION 90.100 (Interpolated Values at Standard Depths)

CREST: 31°04.5'N 122°40'W September 17, 1950 1045 GCT Wire angle: 2°
Sounding: 2,200 fms. Depth of observation: 1,199 m. Weather: partly cloudy
Sea: slight Wind: 390°, force 1

0	19.40	33.42	23.73	417.3	.0000	5.12	.55
10	19.38	33.39	23.72	419.3	.0420	5.11	.54
20	19.30	33.41	23.75	416.2	.0839	5.20	.54
30	19.00	33.54	23.93	399.9	.1249	5.37	.55
50	17.59	33.64	24.35	360.0	.2013	5.64	.47
75	16.23	33.68	24.70	327.4	.2877	5.45	.46
100	15.43	33.73	24.92	307.3	.3675	5.41	.47
150	12.25	33.68	25.54	249.2	.508	5.04	.91
200	9.63	33.73	26.04	201.4	.621	4.03	1.66
250	8.39	33.86	26.34	173.5	.715	3.40	2.06
300	7.56	33.99	26.57	152.7	.798	2.94	2.40
400	6.40	34.11	26.82	129.3	.940	1.35	3.02
500	5.70	34.22	27.00	113.4	1.062	.73	3.27
600	5.14	34.27	27.10	103.8	1.172	.42	3.31
700	4.70	34.37	27.23	92.1	1.271	.46	3.41
800	4.37	34.47	27.35	81.7	1.358	.55	3.51
1000	3.88	34.51	27.43	74.7	1.517	.60	3.48

STATION 90.110 (Interpolated Values at Standard Depths)

CREST: 30°44.5'N 123°20'W September 17, 1950 0503, 0525 GCT Wire angles: 4°, 4° Sounding: 2,130 fms. Depths of observation: 202, 1,199 m. Weather: partly cloudy Sea: slight Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.38	33.46	23.77	413.9	.0000	4.97	.62
10	19.37	33.48	23.79	412.5	.0415	4.88	.61
20	19.26	33.46	23.80	411.7	.0829	4.88	.62
30	19.11	33.46	23.84	408.3	.1240	4.95	.62
50	17.58	33.64	24.35	359.8	.2012	5.18	.58
75	16.56	33.71	24.65	332.5	.2882	5.24	.58
100	15.92	33.61	24.72	326.5	.3711	5.63	.59
150	12.85	33.71	25.44	258.2	.518	4.96	.92
200	9.85	33.68	25.97	208.7	.636	4.24	1.74
250	8.61	33.67	26.16	190.9	.736	3.40	2.16
300	7.80	33.66	26.27	180.5	.830	2.69	2.51
400	6.71	33.99	26.68	142.4	.993	1.60	3.23
500	5.94	34.04	26.82	129.8	1.130	.78	3.59
600	5.30	34.16	27.00	114.0	1.253	.58	3.68
700	4.85	34.28	27.14	100.6	1.361	.50	3.71
800	4.52	34.38	27.26	90.2	1.458	.46	3.73
1000	3.94	34.42	27.35	82.0	1.632	.56	3.74

STATION 90.120 (Interpolated Values at Standard Depths)

CREST: 30°23.5'N 124°01'W September 16, 1950 2322 GCT Wire angle: 8° Sounding: 2,300 fms. Depth of observation: 1,190 m. Weather: cloudy Sea: slight Wind: 360°, force 3

0	19.96	33.49	23.64	426.0	.0000	5.15	.53
10	19.90	33.51	23.67	423.4	.0426	4.74	.48
20	19.74	33.51	23.72	419.8	.0850	4.84	.46
30	19.60	33.45	23.71	421.0	.1272	5.23	.44
50	16.40	33.39	24.44	351.5	.2048	5.54	.44
75	15.40	33.40	24.67	330.0	.2905	5.72	.64
100	14.05	33.44	24.99	300.1	.3697	5.39	1.32
150	11.80	33.55	25.52	250.5	.508	4.65	1.72
200	9.10	33.82	26.20	186.4	.618	3.79	2.59
250	7.92	34.03	26.55	154.1	.704	3.07	2.94
300	7.35	34.10	26.68	141.5	.779	2.43	3.16
400	6.54	34.21	26.88	123.8	.912	1.00	3.35
500	5.87	34.29	27.03	110.4	1.030	.57	3.48
600	5.45	34.34	27.12	102.5	1.138	.37	3.56
700	4.94	34.37	27.20	95.0	1.237	.37	3.56
800	4.50	34.40	27.28	88.4	1.330	.37	3.52
1000	3.94	34.54	27.45	73.2	1.494	.67	3.44

STATION 90.130 (Interpolated Values at Standard Depths)

CREST: 30°02'N 124°32.5'W September 16, 1950 1827 GCT Wire angle: 9°
Sounding: 2,300 fms. Depth of observation: 1,198 m. Weather: rain
Sea: slight Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.10	33.53	23.64	426.6	.0000	5.01	.45
10	20.00	33.58	23.70	420.8	.0425	5.15	.47
20	19.86	33.57	23.73	418.4	.0847	4.98	.45
30	19.70	33.35	23.60	430.7	.1273	5.12	.43
50	15.50	33.31	24.58	338.0	.2046	5.88	.40
75	13.10	33.31	25.09	290.4	.2835	6.08	.49
100	11.55	33.39	25.44	256.7	.3524	5.37	.97
150	9.89	33.63	25.92	212.0	.470	3.48	1.50
200	8.90	33.84	26.25	181.8	.570	2.83	1.95
250	8.17	33.98	26.47	161.4	.656	2.27	2.27
300	7.39	34.08	26.66	143.6	.733	1.73	2.53
400	6.31	34.22	26.92	120.0	.866	.89	2.92
500	5.85	34.22	26.98	115.3	.984	.54	3.15
600	5.32	34.34	27.14	100.9	1.093	.37	3.23
700	4.78	34.40	27.25	90.8	1.190	.38	3.22
800	4.36	34.43	27.32	84.5	1.279	.42	3.23
1000	3.78	34.52	27.45	72.7	1.438	.55	(3.21)

STATION 90.145 (Interpolated Values at Standard Depths)

CREST: 29°31.5'N 125°40'W September 16, 1950 1037 GCT Wire angle: 1°
Sounding: 2,450 fms. Depth of observation: 1,200 m. Weather: partly cloudy
Sea: slight Wind: 320°, force 3

0	20.09	33.48	23.60	430.0	.0000	5.11	.50
10	19.73	33.46	23.68	422.8	.0428	5.25	.50
20	19.61	33.45	23.70	420.9	.0852	5.29	.42
30	19.45	33.42	23.72	419.5	.1274	5.31	.42
50	16.36	33.28	24.36	358.7	.2056	5.90	.47
75	14.85	33.26	24.68	328.8	.2920	6.02	.46
100	12.52	33.22	25.13	286.7	.3694	5.88	.61
150	10.37	33.55	25.78	225.8	.498	4.70	1.28
200	8.84	33.87	26.28	178.7	.600	3.64	1.80
250	8.01	33.99	26.50	158.3	.685	2.89	2.16
300	7.41	34.05	26.63	146.1	.762	2.27	2.47
400	6.16	34.13	26.87	124.7	.898	1.23	2.86
500	5.76	34.22	26.99	114.2	1.019	.58	3.19
600	5.27	34.31	27.12	102.5	1.128	.36	3.44
700	4.79	34.36	27.21	93.9	1.227	.36	3.42
800	4.39	34.40	27.29	87.1	1.319	.42	3.40
1000	3.79	34.47	27.41	76.6	1.484	.70	3.35

STATION 90.160 (Interpolated Values at Standard Depths)

CREST: 29°07'N 126°30'W September 16, 1950 0411 GCT Wire angle: 10°
Sounding: 2,410 fms. Depth of observation: 1,181 m. Weather: cloudy
Sea: slight Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.35	33.57	23.60	430.0	.0000	5.27	.46
10	20.25	33.55	23.61	429.3	.0431	5.28	.41
20	20.05	33.56	23.67	423.9	.0860	5.28	.45
30	19.37	33.59	23.87	405.2	.1276	5.33	.47
50	17.65	33.90	24.54	342.5	.2027	5.62	.42
75	18.12	34.29	24.72	325.9	.2867	5.58	.35
100	17.33	34.29	24.91	308.4	.3665	5.48	.36
150	14.43	33.99	25.34	268.8	.512	5.11	.60
200	10.83	33.77	25.87	218.4	.634	4.40	1.31
250	8.93	33.87	26.27	181.0	.735	3.82	1.85
300	7.80	33.99	26.53	156.1	.820	3.22	2.28
400	6.39	34.05	26.77	133.6	.966	1.85	2.97
500	5.48	34.15	26.97	115.8	1.092	.88	3.39
600	4.91	34.19	27.07	106.9	1.204	.48	3.49
700	4.59	34.29	27.18	96.7	1.307	.49	3.48
800	4.35	34.41	27.30	85.8	1.399	.49	3.48
1000	3.85	34.47	27.40	77.3	1.564	.72	3.48

STATION 90.175 (Interpolated Values at Standard Depths)

CREST: 28°34.5'N 127°38'W September 15, 1950 2005, 1827 GCT Wire angles: 10°, 12° Sounding: 2,480 fms. Depths of observation: 1,187, 2,405 m. Weather: partly cloudy Sea: slight Wind: 020°, force 3

0	21.25	34.14	23.79	411.7	.0000	5.00	.46
10	21.00	34.14	23.86	405.6	.0410	5.11	.41
20	21.06	34.17	23.87	405.4	.0817	5.04	.40
30	21.06	34.29	23.96	397.0	.1220	5.02	.38
50	19.64	34.38	24.40	355.2	.1976	5.28	.36
75	17.60	34.13	24.72	325.4	.2832	5.11	.37
100	16.38	34.03	24.93	305.9	.3626	5.14	.38
150	13.90	33.89	25.37	265.5	.506	4.91	1.18
200	10.87	33.77	25.86	219.1	.628	4.88	1.71
250	9.35	33.91	26.23	184.6	.730	4.45	2.08
300	8.31	34.00	26.46	162.9	.818	3.73	2.76
400	6.55	34.02	26.73	138.0	.969	2.30	3.40
500	5.44	34.17	26.99	113.8	1.096	1.15	3.53
600	4.96	34.23	27.09	104.6	1.206	.58	3.52
700	4.59	34.32	27.20	94.5	1.307	.55	3.50
800	4.25	34.39	27.30	86.2	1.398	.61	3.48
1000	3.85	34.49	27.42	75.8	1.562	.81	3.46
1200	3.38	34.53	27.50	68.9	1.709	1.01	3.42
1500	2.81	34.56	27.57	61.2	1.906	1.30	3.34
2000	2.11	34.63	27.69	51.3	2.192	1.86	

STATION 90.190 (Interpolated Values at Standard Depths)

CREST: 28°07.5'N 128°44.5'W September 15, 1950 1035 GCT Wire angle: 6°
Sounding: 2,400 fms. Depth of observation: 1,190 m. Weather: partly cloudy
Sea: slight Wind: 040°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	21.10	34.27	23.93	398.4	.0000	5.12	.39
10	21.10	34.23	23.90	401.7	.0402	5.10	.39
20	21.02	34.23	23.92	400.0	.0804	5.12	.35
30	20.65	34.23	24.02	390.8	.1201	5.20	.32
50	19.10	34.23	24.43	352.9	.1948	5.46	.27
75	17.87	34.28	24.77	350.8	.2795	5.55	.26
100	17.70	34.40	24.91	308.9	.3587	5.43	.29
150	16.05	34.33	25.24	278.3	.507	4.88	.41
200	11.90	33.91	25.78	227.1	.634	4.63	1.05
250	9.47	33.97	26.26	182.1	.737	3.91	1.91
300	8.25	34.04	26.50	159.0	.823	3.08	2.25
400	6.86	34.09	26.74	137.0	.972	1.73	2.63
500	5.85	34.15	26.92	120.5	1.102	1.06	2.95
600	5.21	34.26	27.09	105.4	1.216	.64	3.37
700	4.78	34.35	27.21	94.5	1.317	.52	3.53
800	4.44	34.40	27.28	87.7	1.409	.50	3.58
1000	3.95	34.47	27.39	78.5	1.577	.82	3.52

STATION 90.205 (Interpolated Values at Standard Depths)

CREST: 27°33.5'N 129°35.5'W September 15, 1950 0322 GCT Wire angle: 7°
Sounding: 2,500 fms. Depth of observation: 1,191 m. Weather: partly cloudy
Sea: slight Wind: 040°, force 3

0	21.54	34.40	23.91	400.5	.0000	5.02	.36
10	21.37	34.48	24.02	390.6	.0397	4.95	.34
20	21.32	34.45	24.01	391.8	.0790	4.95	.34
30	21.24	34.37	23.97	395.9	.1185	5.00	.34
50	19.47	34.33	24.41	354.7	.1940	5.39	.32
75	18.67	34.35	24.63	334.6	.2806	5.43	.31
100	18.25	34.45	24.81	318.2	.3627	5.30	.30
150	15.80	34.34	25.30	272.2	.511	4.88	.47
200	12.75	33.80	25.53	250.9	.643	4.03	1.13
250	10.25	33.97	26.13	194.9	.755	3.24	1.70
300	8.62	34.08	26.48	161.6	.845	2.52	2.19
400	7.12	34.14	26.75	136.9	.996	1.39	2.80
500	6.38	34.24	26.92	120.8	1.126	.63	3.17
600	5.66	34.35	27.10	104.5	1.239	.40	3.32
700	5.16	34.43	27.23	93.3	1.339	.40	3.38
800	4.78	34.47	27.30	86.7	1.430	.40	3.41
1000	4.10	34.45	27.36	81.8	1.600	.73	3.38

STATION 90.220 (Interpolated Values at Standard Depths)

CREST: 27°04'N 130°35'W September 14, 1950 2011 GCT Wire angle: 4°
Sounding: 2,500 fms. Depth of observation: 1,201 m. Weather: partly cloudy
Sea: slight Wind: 040°, 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	21.71	34.56	23.98	393.4	.0000	4.70	.35
10	21.62	34.52	23.98	394.3	.0395	4.57	.39
20	21.47	34.59	24.07	385.6	.0787	4.53	.40
30	21.18	34.59	24.15	378.4	.1170	4.54	.41
50	19.98	34.52	24.42	353.6	.1906	4.92	.42
75	18.95	34.51	24.68	329.8	.2765	4.97	.44
100	18.10	34.44	24.84	315.4	.3577	5.17	.37
150	15.00	34.06	25.27	275.5	.506	4.79	.69
200	10.75	33.78	25.89	216.3	.630	4.05	1.56
250	9.16	33.95	26.29	178.7	.730	3.51	2.06
300	8.15	34.07	26.54	155.3	.814	3.06	2.40
400	6.68	34.07	26.75	136.0	.961	1.90	3.06
500	5.80	34.16	26.94	119.1	1.089	.95	3.40
600	5.19	34.29	27.11	103.0	1.201	.53	3.51
700	4.78	34.36	27.21	93.8	1.301	.52	3.60
800	4.44	34.42	27.30	86.2	1.392	.53	3.65
1000	3.88	34.49	27.41	76.2	1.556	.79	3.56

STATION 90.235 (Interpolated Values at Standard Depths)

CREST: 26°35'N 131°27.5'W September 14, 1950 1332 GCT Wire angle: 17°
Sounding: 2,580 fms. Depth of observation: 1,143 m. Weather: cloudy
Sea: moderate Wind: 040°, force 4

0	21.71	34.60	24.02	390.5	.0000	5.10	.35
10	21.72	34.60	24.01	391.1	.0392	5.01	.36
20	21.30	34.56	24.10	383.4	.0781	5.10	.36
30	20.50	34.56	24.31	363.1	.1156	5.18	.33
50	19.67	34.61	24.57	339.3	.1862	5.29	.29
75	18.75	34.38	24.63	334.4	.2709	5.47	.31
100	17.53	34.34	24.90	309.3	.3518	5.39	.33
150	15.78	34.33	25.30	272.5	.498	4.99	.55
200	11.36	33.87	25.85	220.3	.622	4.25	1.13
250	9.52	33.99	26.26	181.5	.724	3.37	1.87
300	8.50	34.05	26.47	162.0	.810	2.73	2.27
400	6.75	34.08	26.75	136.3	.960	1.93	2.74
500	5.55	34.15	26.96	116.7	1.088	1.11	3.08
600	4.93	34.28	27.13	100.5	1.197	.65	3.26
700	4.58	34.38	27.25	89.9	1.294	.56	3.38
800	4.36	34.46	27.34	82.3	1.381	.55	3.42
1000	3.90	34.52	27.44	74.2	1.539	.62	3.40

STATION 90.250 (Interpolated Values at Standard Depths)

CREST: 26°05'N 132°29.5'W September 14, 1950 0559 GCT Wire angle: 13°
Sounding: 2,100 fms. Depth of observation: 1,177 m. Weather: cloudy
Sea: moderate Wind: 090°, 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	22.23	34.92	24.11	381.2	.0000	5.12	.39
10	22.24	34.94	24.12	380.4	.0382	5.03	.39
20	22.24	34.91	24.10	383.0	.0766	4.95	.34
30	22.19	34.90	24.11	382.7	.1150	4.92	.30
50	21.71	34.08	24.38	357.7	.1894	4.90	.31
75	20.00	34.90	24.70	327.4	.2755	5.33	.35
100	19.13	34.87	24.91	308.9	.3556	5.23	.43
150	17.30	34.62	25.17	285.3	.505	4.97	.78
200	13.69	34.11	25.58	246.5	.639	4.70	1.92
250	10.57	33.99	26.09	198.9	.751	4.34	2.47
300	8.87	33.96	26.35	174.4	.845	3.88	2.80
400	6.95	34.06	26.71	140.5	1.004	2.14	3.11
500	5.97	34.18	26.93	119.8	1.135	.95	3.37
600	5.44	34.29	27.08	106.1	1.249	.53	3.54
700	4.95	34.37	27.20	95.2?	1.351	.53	3.54
800	4.59	34.43	27.29	87.3	1.443	.53	3.54
1000	4.02	34.46	27.38	80.1	1.612	.74	3.53

STATION 90.265 (Interpolated Values at Standard Depths)

CREST: 25°36.5'N 133°27.5'W September 13, 1950 2157 GCT Wire angle: 5°
Sounding: 2,650 fms. Depth of observation: 1,270 m. Weather: cloudy
Sea: rough Wind: 90°, force 4

0	22.58	34.94	24.03	389.2	.0000	4.90	.46
10	22.58	34.94	24.03	389.6	.0391	4.92	.46
20	22.50	34.93	24.04	388.5	.0782	4.90	.60
30	22.42	34.91	24.05	388.2	.1171	4.92	.59
50	21.96	34.90	24.17	377.3	.1941	5.08	.52
75	20.23	34.81	24.58	339.8	.2842	5.07	.48
100	18.89	34.65	24.80	319.0	.3671	4.93	.48
150	16.80	34.48	25.18	284.1	.519	4.64	.71
200	13.79	34.10	25.55	249.2	.653	4.45	.99
250	11.36	34.04	25.98	209.0	.769	4.14	1.42
300	9.30	34.04	26.34	175.2	.865	3.68	1.94
400	7.12	34.05	26.68	143.6	1.026	2.40	2.75
500	5.96	34.17	26.92	120.4	1.159	1.14	3.30
600	5.22	34.28	27.10	104.1	1.272	.50	3.48
700	4.79	34.34	27.20	95.4	1.373	.45	3.53
800	4.50	34.41	27.29	87.7	1.466	.54	3.54
1000	3.95	34.50	27.42	76.3	1.631	.78	3.61

STATION 90.280 (Interpolated Values at Standard Depths)

CREST: 25°06'N 134°32.5'W September 13, 1950 1435, 1227 GCT Wire angle: 14°, 195° Sounding: 2,200 fms. Depth of observation: 1,252, 2,515 m. Weather: partly cloudy Sea: rough Wind: 70°, 90°, 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	22.30	34.99	24.15	378.0	.0000	4.99	.16
10	22.35	34.97	24.12	381.2	.0381	4.71	.21
20	22.44	35.08	24.17	376.1	.0761	4.95	.21
30	22.51	34.10	24.17	376.9	.1130	5.16	.20
50	22.40	34.70	23.90	403.5	.1924	5.30	.19
75	19.42	34.91	24.86	312.3	.2823	5.07	.14
100	19.04	34.82	24.89	310.3	.3607	5.25	.16
150	18.47	34.88	25.08	293.9	.513	5.14	.24
200	15.65	34.45	25.42	262.4	.653	4.85	.26
250	11.72	34.08	25.95	212.5	.772	4.48	.58
300	9.29	34.00	26.31	178.0	.871	4.08	1.31
400	6.94	34.03	26.68	142.6	1.032	2.44	2.41
500	5.63	34.13	26.93	119.2	1.164	1.52	2.95
600	4.95	34.25	27.11	103.0	1.276	.59	3.26
700	4.68	34.37	27.23	91.8	1.375	.60	3.40
800	4.44	34.44	27.32	84.8	1.464	.71	3.42
1000	3.94	34.50	27.42	76.1	1.627	.91	3.41
1200	3.42	34.53	27.49	69.4	1.774	1.03	3.43
1500	2.79	34.61	27.62	58.3	1.968	1.32	3.39
2000	2.16	34.63	27.68	51.8	2.248	-	3.37
2500	1.74	34.65	27.73	47.2	2.449	-	3.01

STATION 100.30 (Interpolated Values at Standard Depths)

PAOLINA-T: 31°40.5'N 116°46.5'W September 22, 1950 0427 GCT Wire angle: 3° Sounding: 250 fms. Depth of observation: 353 m. Weather: partly cloudy Sea: moderate Wind: 270°, force 1

0	17.85	33.57	24.23	369.5	.0000	4.86	-
10	14.77	33.54	24.92	304.8	.0339	4.95	-
20	13.10	33.45	25.19	278.8	.0632	4.67	-
30	11.15	33.44	25.56	244.5	.0894	4.25	-
50	10.25	33.57	25.81	220.3	.1361	3.80	-
75	9.92	33.78	26.03	199.9	.1889	3.10	-
100	9.96	33.90	26.12	192.2	.2383	2.45	-
150	9.70	34.07	26.30	176.4	.331	1.75	-
200	9.35	34.23	26.48	160.1	.416	1.18	-
250	8.81	34.27	26.60	149.6	.494	1.20	-
300	8.53	34.33	26.69	141.8	.567	.98	-

STATION 100.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 31°24'N 117°20'W September 21, 1950 2241 GCT Wire angle: 3° Sounding: 1051 fms. Depth of observation: 1,231 m. Weather: haze
Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.34	33.61	23.63	426.8	.0000	4.79	-
10	19.39	33.64	23.90	401.4	.0416	4.84	-
20	18.72	33.63	24.07	386.3	.0811	4.82	-
30	18.15	33.57	24.16	377.5	.1195	4.84	-
50	12.92	33.46	25.24	275.4	.1851	5.12	-
75	10.87	33.56	25.70	231.9	.2488	3.84	-
100	9.94	33.72	25.98	205.2	.3038	3.17	-
150	9.09	34.02	26.36	170.5	.398	2.60	-
200	8.55	34.13	26.53	155.1	.480	2.03	-
250	8.19	34.21	26.65	144.7	.556	1.61	-
300	7.92	34.30	26.76	134.9	.626	1.25	-
400	7.19	34.38	26.93	120.1	.755	.57	-
500	6.49	34.38	27.02	111.9	.872	.50	-
600	5.87	34.38	27.10	105.0	.981	.39	-
700	5.34	34.39	27.17	98.6	1.084	.32	-
800	4.84	34.42	27.26	91.2	1.180	.30	-
1000	4.06	34.51	27.41	76.9	1.350	.67	-

STATION 100.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 31°07'N 117°53'W September 21, 1950 1735 GCT Wire angle: 3° Sounding: 1,100 fms. Depth of observation: 1,214 m. Weather: haze
Sea: rough Wind: calm

0	18.63	33.44	23.94	397.3	.0000	4.22	-
10	18.40	33.39	23.96	395.8	.0398	4.05	-
20	18.35	33.39	23.98	394.9	.0795	4.25	-
30	18.34	33.40	23.99	394.3	.1191	4.48	-
50	14.18	33.31	24.87	310.8	.1900	4.55	-
75	12.25	33.34	25.27	272.4	.2633	4.30	-
100	10.66	33.41	25.62	239.9	.3278	3.95	-
150	9.12	33.78	26.17	188.7	.436	3.13	-
200	8.45	34.06	26.49	158.8	.523	2.55	-
250	7.90	34.14	26.63	145.6	.600	1.85	-
300	7.40	34.16	26.72	137.8	.671	1.31	-
400	6.53	34.22	26.89	122.9	.803	.69	-
500	6.02	34.27	27.00	113.8	.922	.42	-
600	5.53	34.35	27.17	98.1	1.029	.30	-
700	5.10	34.41	27.22	94.1	1.126	.32	-
800	4.75	34.43	27.27	89.3	1.218	.35	-
1000	3.95	34.50	27.42	76.3	1.386	.64	-

STATION 100.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 30°49'N 118°31'W September 21, 1950 1052 GCT Wire angle: 3°
Sounding: 1,052 fms. Depth of observation: 1,069 m. Weather: overcast
Sea:moderate Wind: 280°, 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	18.71	33.60	24.05	387.6	.0000	4.46	-
10	18.60	33.66	24.12	380.9	.0386	4.20	-
20	18.35	33.63	24.16	377.5	.0767	4.59	-
30	14.64	33.49	24.91	306.4	.1110	4.60	-
50	11.80	33.46	25.45	254.8	.1674	4.15	-
75	10.55	33.59	25.78	224.3	.2276	3.40	-
100	9.55	33.70	26.03	200.4	.2810	2.70	-
150	8.54	33.96	26.40	166.6	.373	2.20	-
200	7.76	34.05	26.58	149.4	.453	1.87	-
250	7.16	34.13	26.73	135.9	.525	1.52	-
300	6.74	34.19	26.84	126.5	.591	1.15	-
400	6.30	34.26	26.95	116.9	.714	.73	-
500	5.87	34.33	27.06	107.4	.827	.46	-
600	5.37	34.35	27.14	100.8	.932	.37	-
700	4.80	34.38	27.23	92.6	1.029	.35	-
800	4.43	34.44	27.32	84.6	1.119	.47	-
1000	3.86	34.52	27.44	73.7	1.279	.65	-

STATION 100.70 (Interpolated Values at Standard Depths)

PAOLINA-T: 30°20.5'N 119°27'W September 21, 1950 0317 GCT Wire angle: 14°
Sounding: 2,080 fms. Depth of observation: 1,180 m. Weather: cloudy
Sea: moderate Wind: 260°, force 2

0	18.65	33.60	24.06	386.1	.0000	4.77	-
10	18.60	33.56	24.04	386.2	.0389	4.75	-
20	18.57	33.55	24.04	388.5	.0779	4.82	-
30	18.38	33.55	24.09	384.3	.1167	5.12	-
50	14.75	33.42	24.83	314.3	.1869	5.60	-
75	11.75	33.17	25.24	275.9	.2611	5.05	-
100	10.64	33.38	25.60	241.8	.3262	4.38	-
150	9.30	33.55	25.96	208.5	.440	3.62	-
200	8.47	33.90	26.36	170.9	.535	2.94	-
250	7.80	34.04	26.57	151.6	.616	2.50	-
300	6.99	34.10	26.73	136.6	.689	2.12	-
400	5.80	34.16	26.94	117.9	.817	1.20	-
500	5.56	34.22	27.01	111.6	.933	.72	-
600	5.28	34.34	27.14	100.4	1.040	.68	-
700	4.95	34.47	27.28	87.8	1.135	.48	-
800	4.53	34.55	27.39	77.7	1.218	.37	-
1000	3.83	34.56	27.48	70.4	1.368	.67	-

STATION 100.80 (Interpolated Values at Standard Depths)

PAOLINA-T: 30°00'N 120°09'W September 20, 1950 2025 GCT Wire angle: 20°
Sounding: 1,950 fms. Depth of observation: 1,266 m. Weather: cloudy
Sea: 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	19.19	33.37	23.75	415.8	.0000	4.20	-
10	19.04	33.35	23.77	414.0	.0417	4.29	-
20	18.65	33.23	23.78	413.7	.0832	4.45	-
30	17.95	33.22	23.94	398.3	.1240	4.63	-
50	15.50	33.26	24.54	341.6	.1983	4.87	-
75	13.20	33.24	25.01	297.5	.2787	4.77	-
100	11.23	33.21	25.36	264.4	.3493	4.48	-
150	9.54	33.52	25.89	214.5	.470	3.37	-
200	8.63	33.92	26.35	171.8	.567	3.05	-
250	8.03	34.06	26.55	153.4	.649	2.45	-
300	7.59	34.14	26.68	142.0	.723	1.40	-
400	6.78	34.27	26.90	122.6	.857	.80	-
500	6.08	34.33	27.03	110.2	.974	.60	-
600	5.52	34.33	27.10	104.2	1.082	.40	-
700	5.02	34.36	27.19	96.8	1.184	.35	-
800	4.58	34.47	27.32	84.2	1.275	.37	-
1000	3.90	34.57	27.48	70.5	1.432	.55	-

STATION 100.90 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°37'N 120°52'W September 20, 1950 1232 GCT Wire angle: 28°
Sounding: 2,100 fms. Depth of observation: 1,076 m. Weather: partly cloudy
Sea: rough Wind: 350°, force 5

0	18.79	33.24	23.75	415.6	.0000	4.55	-
10	18.79	33.24	23.75	416.0	.0417	4.82	-
20	18.77	33.21	23.73	418.0	.0836	4.83	-
30	18.45	33.26	23.85	407.1	.1250	4.88	-
50	16.74	33.40	24.37	358.3	.2020	5.15	-
75	15.52	33.39	24.64	333.3	.2889	5.40	-
100	13.27	33.35	25.08	291.4	.3675	5.27	-
150	11.60	33.65	25.64	239.6	.501	4.41	-
200	8.95	33.78	26.19	187.1	.609	3.47	-
250	8.04	33.99	26.50	158.8	.696	2.95	-
300	7.44	34.11	26.68	142.1	.771	2.50	-
400	6.60	34.23	26.89	123.10	.905	.94	-
500	5.94	34.30	27.03	110.5	1.023	.80	-
600	5.42	34.39	27.16	98.4	1.128	.49	-
700	4.96	34.47	27.28	87.9	1.222	.30	-
800	4.59	34.50	27.35	82.1	1.308	.43	-
1000	3.94	34.51	27.42	75.4	1.468	.65	-

STATION 100.100 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°15'N 121°37'W September 20, 1950 0448 GCT Wire angle: 15° Sounding: 2,100 fms. Depth of observation: 1,264 m. Weather: partly cloudy Sea: rough Wind: 20°, force 4-5

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	19.30	33.35	23.71	420.0	.0000	4.41	-
10	19.30	33.33	23.69	421.7	.0423	4.42	-
20	19.15	33.30	23.71	420.6	.0845	4.45	-
30	18.65	33.30	23.83	408.9	.1262	4.51	-
50	17.78	33.64	24.31	364.4	.2039	4.72	-
75	16.55	33.69	24.63	333.7	.2916	4.92	-
100	15.20	33.62	24.89	310.4	.3727	4.62	-
150	11.08	33.58	25.68	235.6	.510	4.05	-
200	9.35	33.75	26.10	195.5	.619	3.60	-
250	8.24	34.04	26.51	158.0	.708	2.90	-
300	7.48	34.12	26.68	141.9	.783	2.15	-
400	6.73	34.19	26.84	127.8	.919	1.05	-
500	6.08	34.23	26.96	117.6	1.043	.64	-
600	5.58	34.37	27.13	102.0	1.154	.43	-
700	5.15	34.42	27.22	94.0	1.253	.40	-
800	4.68	34.42	27.27	89.2	1.345	.40	-
1000	3.97	34.50	27.41	76.5	1.513	.57	-

STATION 100.110 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°00.5'N 122°07'W September 19, 1950 2235 GCT Wire angle: 20° Sounding: 2,250 fms. Depth of observation: 1,261 m. Weather: partly cloudy Sea: moderate Wind: 350°, force 3

0	19.50	33.30	23.62	428.5	.0000	4.28	-
10	19.38	33.26	23.62	428.8	.0430	4.36	-
20	19.10	33.27	23.70	421.6	.0857	4.41	-
30	18.35	33.30	23.91	401.8	.1271	4.50	-
50	16.52	33.45	24.46	349.8	.2026	4.70	-
75	16.08	33.60	24.67	330.0	.2880	4.62	-
100	14.87	33.60	24.94	305.0	.3679	4.52	-
150	12.00	33.62	25.54	249.0	.507	4.15	-
200	9.56	33.74	26.06	199.6	.620	3.62	-
250	8.53	33.95	26.39	169.0	.713	3.03	-
300	7.80	34.03	26.56	153.1	.794	2.31	-
400	6.57	34.12	26.81	130.9	.937	1.41	-
500	5.95	34.22	26.96	116.6	1.062	.60	-
600	5.38	34.32	27.11	103.1	1.173	.45	-
700	4.96	34.38	27.21	94.5	1.273	.44	-
800	4.64	34.43	27.29	87.9	1.365	.40	-
1000	3.97	34.48	27.40	78.0	1.533	.57	-

STATION 105.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 30°39'N 116°33'W September 7, 1950 0906 GCT Wire angle: 10°
Sounding: 660 fms. Depth of observation: 1,004 m. Weather: overcast
Sea: smooth Wind: 290°, 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	19.40	33.58	23.86	405.7	.0000	5.08	-
10	19.37	33.64	23.91	400.9	.0405	4.97	-
20	19.25	33.58	23.89	402.7	.0808	5.95	-
30	13.15	33.57	25.28	271.2	.1147	5.90	-
50	11.10	33.58	25.67	233.8	.1654	4.30	-
75	10.35	33.71	25.91	212.1	.2214	3.38	-
100	9.95	33.85	26.08	195.7	.2727	2.62	-
150	9.79	34.14	26.34	172.7	.365	1.84	-
200	8.85	34.16	26.50	157.4	.449	1.93	-
250	8.22	34.17	26.61	148.1	.526	1.81	-
300	7.88	34.18	26.67	143.2	.599	1.39	-
400	7.55	34.35	26.85	127.5	.735	.87	-
500	6.77	34.31	26.93	121.0	.861	.48	-
600	5.93	34.34	27.06	108.7	.977	.42	-
700	5.41	34.43	27.20	96.5	1.080	.37	-
800	4.92	34.47	27.29	88.5	1.174	.43	-
1000	3.98	34.58	27.48	70.7	1.335	.57	-

STATION 110.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°46.5'N 116°00'W September 17, 1950 0640 GCT Wire angle: 28°
Sounding: 700 fms. Depth of observation: 1,066 m. Weather: overcast
Sea: rough Wind: 270°, force 3

0	18.87	33.69	24.07	384.9	.0000	4.97	-
10	18.86	33.60	24.01	391.5	.0390	4.75	-
20	18.75	33.54	23.99	393.5	.0784	5.28	-
30	12.25	33.50	25.40	259.5	.1112	5.17	-
50	12.26	33.49	25.39	260.9	.1635	4.67	-
75	10.70	33.66	25.81	221.6	.2241	3.90	-
100	10.20	33.86	26.05	199.1	.2770	2.87	-
150	9.82	34.19	26.37	169.5	.370	1.78	-
200	9.62	34.31	26.50	158.5	.452	1.28	-
250	9.30	34.38	26.60	149.2	.530	.85	-
300	8.85	34.45	26.73	137.9	.602	.72	-
400	7.65	34.47	26.93	120.1	.732	.37	-
500	6.58	34.43	27.05	109.5	.848	.38	-
600	5.78	34.41	27.14	101.6	.954	.42	-
700	5.18	34.42	27.22	94.3	1.053	.40	-
800	4.69	34.52	27.35	81.9	1.142	.46	-
1000	3.96	34.55	27.45	72.7	1.299	.65	-

STATION 110.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°36.5'N 116°19.5'W September 17, 1950 1035 GCT Wire angle: 10° Sounding: 1,030 fms. Depth of observation: 1,215 m. Weather: overcast Sea: moderate 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	19.00	33.64	24.00	391.6	.0000	4.79	-
10	19.00	33.66	24.02	390.5	.0393	4.62	-
20	18.85	33.62	24.03	390.1	.0784	5.54	-
30	15.80	33.53	24.68	327.7	.1145	5.56	-
50	13.25	33.48	25.19	280.2	.1756	5.20	-
75	11.20	33.61	25.68	233.8	.2402	3.75	-
100	10.48	33.82	25.97	206.6	.2956	2.78	-
150	9.46	34.10	26.36	170.4	.390	1.45	-
200	8.92	34.16	26.49	158.5	.473	.93	-
250	8.85	34.43	26.72	138.4	.548	.67	-
300	8.77	34.54	26.81	130.0	.616	.56	-
400	7.50	34.40	26.90	123.1	.743	.60	-
500	6.68	34.43	27.03	110.8	.861	.33	-
600	5.70	34.36	27.11	104.3	.970	.33	-
700	5.05	34.41	27.22	93.4	1.070	.37	-
800	4.63	34.48	27.33	84.1	1.159	.44	-
1000	3.90	34.53	27.44	73.4	1.319	.72	-

STATION 110.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°19'N 117°02'W September 17, 1950 1627 GCT Wire angle: 5° Sounding: 1,700 fms. Depth of observation: 979 m. Weather: cloudy Sea: moderate Wind: 300°, force 2

0	17.03	33.51	24.39	355.2	.0000	5.60	-
10	16.86	33.49	24.41	353.2	.0356	5.20	-
20	14.25	33.46	24.97	300.5	.0684	4.85	-
30	13.38	33.46	25.15	283.6	.0977	4.67	-
50	11.50	33.57	25.59	241.4	.1505	4.30	-
75	9.90	33.65	25.94	209.2	.2071	3.88	-
100	9.08	33.72	26.12	191.6	.2575	1.07	-
150	10.07	34.31	26.42	164.8	.347	.80	-
200	9.31	34.43	26.64	144.6	.425	.57	-
250	8.70	34.43	26.74	136.1	.496	.50	-
300	8.13	34.43	26.83	128.4	.562	.49	-
400	6.98	34.39	26.96	116.5	.686	.38	-
500	6.20	34.36	27.04	109.5	.800	.35	-
600	5.59	34.37	27.13	102.1	.907	.43	-
700	5.14	34.38	27.19	96.8	1.007	.45	-
800	4.84	34.39	27.23	93.4	1.103	.38	-
1000	(4.15)	(34.48)	(27.38)	(80.2)	(1.279)	(.59)	-

STATION 110.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°59'N 117°41'W September 17, 1950 2231 GCT Wire angle: 0°
Sounding: 2,000 fms. Depth of observation: 1,217 m. Weather: cloudy
Sea: slight Wind: 180°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.29	33.60	23.90	401.5	.0000	4.97	-
10	18.98	33.60	23.98	394.4	.0400	4.92	-
20	18.80	33.59	24.02	391.1	.0794	4.86	-
30	18.40	33.51	24.05	387.7	.1185	4.88	-
50	14.72	33.31	24.75	321.7	.1898	5.32	-
75	12.69	33.43	25.26	273.9	.2647	5.08	-
100	11.05	33.62	25.71	231.1	.3282	4.00	-
150	10.49	33.98	26.09	196.1	.436	2.20	-
200	9.91	34.31	26.45	163.2	.526	1.31	-
250	8.82	34.28	26.60	149.0	.605	1.07	-
300	7.96	34.23	26.70	140.7	.678	1.02	-
400	6.95	34.30	26.90	122.7	.810	.64	-
500	6.45	34.34	26.99	114.4	.930	.48	-
600	5.83	34.41	27.13	102.2	1.039	.30	-
700	5.27	34.43	27.21	94.7	1.139	.32	-
800	4.78	34.43	27.27	89.7	1.232	.38	-
1000	4.08	34.47	27.38	80.0	1.404	.57	-

STATION 110.70 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°36'N 118°18'W September 18, 1950 0434 GCT Wire angle: 0°
Sounding: 2,000 fms. Depth of observation: 1,221 m. Weather: partly cloudy
Sea: moderate Wind: 270°, force 2

0	19.30	33.54	23.85	406.2	.0000	4.89	-
10	18.86	33.49	23.92	399.5	.0404	4.64	-
20	18.45	33.48	24.02	390.8	.0801	4.82	-
30	17.70	33.54	24.18	375.8	.1186	5.08	-
50	14.73	33.30	24.74	322.7	.1888	5.40	-
75	12.30	33.40	25.31	268.9	.2631	5.20	-
100	10.66	33.62	25.78	224.4	.3252	3.85	-
150	10.10	34.13	26.28	178.5	.427	3.12	-
200	10.25	34.41	26.47	161.5	.512	2.37	-
250	10.01	34.44	26.53	156.3	.592	1.35	-
300	9.48	34.45	26.63	147.9	.669	.74	-
400	8.06	34.42	26.83	129.8	.809	.50	-
500	7.25	34.42	26.95	119.6	.935	.50	-
600	6.50	34.35	27.00	115.7	1.053	.45	-
700	5.68	34.37	27.12	104.5	1.165	.38	-
800	4.95	34.42	27.24	92.5	1.264	.30	-
1000	4.16	34.46	27.36	81.8	1.440	.56	-

STATION 110.80 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°20'N 118°58'W September 18, 1950 1100 GCT Wire angle: 2°
Sounding: 2,175 fms. Depth of observation: 1,215 m. Weather: clear
Sea moderate 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	19.80	33.62	23.78	412.6	.0000	4.45	-
10	19.78	33.62	23.79	412.5	.0414	4.45	-
20	19.72	33.64	23.82	409.9	.0827	4.40	-
30	19.68	33.64	23.83	409.2	.1238	4.45	-
50	13.91	33.58	25.13	285.7	.1937	5.19	-
75	11.67	33.65	25.62	239.1	.2596	3.75	-
100	10.27	33.74	25.94	209.1	.3160	3.03	-
150	9.42	33.99	26.28	177.9	.413	2.82	-
200	8.45	34.13	26.54	153.6	.497	2.33	-
250	8.02	34.19	26.66	143.7	.572	1.65	-
300	7.66	34.22	26.73	137.1	.642	1.12	-
400	7.43	34.37	26.88	124.3	.774	.51	-
500	6.71	34.43	27.03	111.3	.893	.35	-
600	5.84	34.43	27.14	100.9	1.000	.35	-
700	5.30	34.44	27.22	94.4	1.099	.34	-
800	4.82	34.46	27.29	88.0	1.191	.34	-
1000	4.10	34.49	27.39	78.8	1.359	.67	-

STATION 110.90 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°04'N 119°42'W September 18, 1950 1725 GCT Wire angle: 2°
Sounding: 2,100 fms. Depth of observation: 1,224 m. Weather: partly cloudy
Sea: rough Wind: 340°, force 2

0	19.76	33.57	23.76	415.3	.0000	4.90	-
10	19.40	33.59	23.86	405.3	.0412	5.04	-
20	19.20	33.59	23.91	400.8	.0817	5.14	-
30	19.05	33.54	23.91	401.1	.1219	5.28	-
50	13.25	33.48	25.19	280.2	.1904	5.68	-
75	10.80	33.64	25.77	224.8	.2538	3.50	-
100	9.73	33.76	26.05	198.8	.3071	3.08	-
150	9.72	34.14	26.35	171.6	.400	1.65	-
200	9.28	34.24	26.50	158.2	.483	1.45	-
250	8.56	34.26	26.63	146.5	.560	1.20	-
300	7.85	34.27	26.74	136.1	.631	.95	-
400	6.85	34.29	26.90	122.1	.761	.58	-
500	6.21	34.35	27.03	110.4	.879	.40	-
600	5.75	34.37	27.11	104.2	.987	.33	-
700	5.26	34.42	27.21	95.4	1.088	.33	-
800	4.76	34.45	27.29	87.9	1.180	.40	-
1000	3.98	34.46	27.38	79.6	1.350	.70	-

STATION 110.100 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°40'N 120°18'W September 18, 1950 2355 GCT Wire angle: 0°
Sounding: 2,200 fms. Depth of observation: 1,217 m. Weather: cloudy
Sea: rough Wind: 30°, 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	20.44	33.40	23.45	444.6	.0000	4.98	-
10	19.71	33.39	23.63	427.4	.0438	4.75	-
20	19.70	33.40	23.64	426.8	.0867	5.00	-
30	19.50	33.39	23.69	422.9	.1293	5.20	-
50	16.10	33.31	24.45	350.8	.2071	5.38	-
75	14.52	33.33	24.81	316.9	.2910	5.50	-
100	13.78	33.64	25.20	280.1	.3661	5.15	-
150	10.85	33.67	25.79	225.0	.493	4.15	-
200	9.23	33.90	26.24	182.5	.596	3.32	-
250	7.98	33.99	26.51	157.9	.682	2.70	-
300	7.27	34.04	26.65	144.9	.758	2.13	-
400	6.48	34.13	26.83	128.9	.896	1.08	-
500	5.67	34.22	27.00	113.0	1.018	.80	-
600	5.15	34.29	27.12	102.5	1.127	.50	-
700	4.75	34.33	27.19	95.7	1.227	.50	-
800	4.44	34.37	27.26	89.9	1.320	.59	-
1000	3.85	34.46	27.39	78.0	1.490	.75	-

STATION 110.110 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°16.5'N 120°54.5'W September 19, 1950 0603 GCT Wire angle: 0°
Sounding: 2,210 fms. Depth of observation: 1,244 Weather: partly cloudy
Sea: rough Wind: 330°, force 1

0	20.34	33.30	23.40	449.3	.0000	4.69	-
10	19.30	33.25	23.63	427.5	.0440	4.24	-
20	18.92	33.26	23.73	418.0	.0865	4.23	-
30	18.60	33.40	23.92	400.5	.1275	4.32	-
50	16.58	33.48	24.47	348.9	.2029	4.63	-
75	15.20	33.38	24.70	327.3	.2879	4.70	-
100	13.40	33.22	24.96	303.4	.3672	4.41	-
150	10.75	33.48	25.66	237.3	.503	3.95	-
200	9.08	33.82	26.20	186.1	.610	3.02	-
250	8.15	34.00	26.49	159.6	.697	2.22	-
300	7.55	34.09	26.65	145.1	.774	1.67	-
400	6.57	34.17	26.84	127.2	.911	1.02	-
500	5.74	34.21	26.98	114.6	1.033	.60	-
600	5.12	34.30	27.13	101.4	1.142	.45	-
700	4.65	34.38	27.25	90.7	1.239	.43	-
800	4.35	34.42	27.31	85.2	1.328	.48	-
1000	3.80	34.48	27.42	75.9	1.491	.75	-

STATION 113.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 29°12'N 115°39'W September 16, 1950 2353 GCT Wire angle: 21°
Sounding: 750 fms. Depth of observation: 1,113 m. Weather: cloudy
Sea: rough Wind: 290°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.10	33.60	23.95	396.9	.0000	5.09	-
10	19.10	33.92	23.92	400.2	.0400	4.80	-
20	19.09	33.55	23.91	401.0	.0802	4.87	-
30	17.45	33.53	24.30	364.2	.1186	5.20	-
50	14.30	33.42	24.92	305.2	.1859	5.43	-
75	11.95	33.54	25.49	252.2	.2560	4.43	-
100	10.65	33.60	25.77	225.7	.3161	3.66	-
150	9.86	33.89	26.13	192.3	.421	2.84	-
200	10.05	34.30	26.42	166.2	.512	1.35	-
250	9.48	34.41	26.60	149.8	.591	1.02	-
300	8.87	34.42	26.71	140.4	.664	.85	-
400	8.05	34.42	26.83	129.7	.800	.57	-
500	7.05	34.43	26.98	116.0	.924	.32	-
600	6.04	34.43	27.12	103.6	1.035	.31	-
700	5.21	34.42	27.21	94.7	1.135	.39	-
800	4.75	34.42	27.27	90.0	1.229	.48	-
1000	4.07	34.48	27.39	79.2	1.400	.56	-

STATION 117.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°37'N 115°16'W September 16, 1950 1730 GCT Wire angle: 0°
Sounding: 123 fms. Depth of observation: 180 m. Weather: overcast
Sea: very rough Wind: 290°, force 2

0	17.40	33.48	24.27	365.8	.0000	5.01	-
10	16.40	33.46	24.49	345.2	.0357	5.04	-
20	14.85	33.42	24.81	315.5	.0689	4.72	-
30	13.95	33.43	25.01	296.9	.0996	4.52	-
50	12.38	33.54	25.40	259.4	.1555	4.33	-
75	11.08	33.71	25.78	224.4	.2163	3.18	-
100	10.36	33.92	26.07	197.3	.2694	2.61	-
150	9.95	34.22	26.37	169.4	.362	1.82	-

STATION 120.27 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°19'N 114°23'W September 16, 1950 0729 GCT Wire angle: 15°
Sounding: 50 fms. Depth of observation: 72 m. Weather: haze Sea: moderate
Wind: 320°, force 4-5

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	19.24	33.73	24.01	390.9	.0000	5.09	-
10	19.25	33.68	23.97	395.1	.0395	5.25	-
20	19.23	33.70	23.99	393.5	.0790	4.91	-
30	19.22	33.70	23.99	393.6	.1186	4.90	-
50	13.75	33.51	25.11	287.7	.1870	5.00	-

STATION 120.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 28°03'N 114°54'W September 16, 1950 0235 GCT Wire angle: 0°
Sounding: 45 fms. Depth of observation: 70 m. Weather: haze Sea: moderate
Wind: 40°, force 3

0	18.99	33.68	24.04	388.5	.0000	5.19	-
10	19.00	33.66	24.02	390.5	.0391	4.34	-
20	18.88	33.73	24.10	382.9	.0779	4.94	-
30	18.30	33.76	24.27	367.2	.1156	5.07	-
50	14.00	33.64	25.16	283.1	.1809	5.05	-

STATION 120.45 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°43'N 115°32'W September 15, 1950 2018 GCT Wire angle: 30° Sounding: 800 fms. Depth of observation: 788 m. Weather: cloudy Sea: rough Wind: 320°, 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	18.01	33.69	24.29	3645	.0000	4.46	-
10	17.90	33.62	24.26	367.4	.0367	4.39	-
20	16.00	33.60	24.69	326.6	.0716	4.67	-
30	13.72	33.59	25.18	280.7	.1021	4.60	-
50	11.35	33.53	25.59	241.8	.1546	3.70	-
75	10.63	33.75	25.89	213.8	.2118	3.09	-
100	9.75	33.81	26.09	195.5	.2633	3.16	-
150	9.17	33.99	26.32	174.0	.356	2.60	-
200	8.87	34.13	26.48	159.9	.440	2.03	-
250	8.72	34.23	26.58	151.2	.519	1.46	-
300	8.64	34.32	26.66	144.2	.593	.97	-
400	8.28	34.42	26.80	133.2	.733	.48	-
500	6.98	34.45	27.01	113.6	.857	.32	-
600	5.90	34.43	27.14	101.7	.966	.31	-
700	5.52	34.45	27.20	96.5	1.066	.27	-

STATION 120.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°21'N 116°10'W September 15, 1950 1335 GCT Wire angle: 30° Sounding: 2,200 fms. Depth of observation: 978 m. Weather: overcast Sea: rough Wind: 320°, force 3

0	19.81	33.71	23.85	406.3	.0000	4.94	-
10	19.82	33.72	23.85	406.2	.0408	5.19	-
20	19.75	33.74	23.89	403.4	.0814	5.21	-
30	18.06	33.77	24.34	360.8	.1198	5.40	-
50	17.52	33.81	24.50	346.1	.1908	5.62	-
75	16.67	33.82	24.71	326.9	.2754	5.25	-
100	14.75	33.83	25.14	285.7	.3525	4.94	-
150	11.02	33.90	25.94	211.0	.478	3.80	-
200	9.24	34.06	26.36	170.9	.574	3.06	-
250	8.43	34.15	26.56	152.7	.655	2.50	-
300	7.69	34.18	26.70	140.5	.729	1.03	-
400	7.30	34.31	26.85	126.9	.864	.72	-
500	7.12	34.51	27.04	111.1	.984	.29	-
600	6.24	34.51	27.16	100.3	1.090	.22	-
700	5.53	34.51	27.25	92.2	1.188	.25	-
800	4.96	34.53	27.33	84.5	1.277	.38	-
1000	(4.19)	(34.56)	27.44	74.8	1.438	(.48)	-

STATION 120.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°05'N 116°43'W September 15, 1950 0715 GCT Wire angle: 6°
Sounding: 2,050 fms. Depth of observation: 1,201 m. Weather: overcast
Sea: rough Wind: 320°, 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	19.81	33.66	23.81	410.0	.0000	4.57	-
10	19.82	33.66	23.81	410.5	.0412	4.48	-
20	19.69	33.65	23.83	408.4	.0823	4.42	-
30	19.40	33.62	23.89	403.8	.1231	4.47	-
50	14.83	33.53	24.90	307.9	.1946	4.91	-
75	13.00	33.53	25.28	272.4	.2675	4.54	-
100	10.95	33.77	25.85	218.3	.3293	3.30	-
150	11.48	34.42	26.26	180.9	.420	.37	-
200	11.36	34.54	26.37	171.1	.518	.42	-
250	11.08	34.66	26.52	158.5	.601	.37	-
300	10.80	34.69	26.59	152.5	.680	.31	-
400	9.82	34.60	26.69	144.5	.829	.31	-
500	8.16	34.49	26.87	128.0	.967	.28	-
600	7.05	34.47	27.02	114.6	1.089	.24	-
700	6.16	34.46	27.13	104.3	1.200	.24	-
800	5.43	34.45	27.21	96.5	1.301	.25	-
1000	4.43	34.52	27.36	80.6	1.480	.46	-

STATION 120.70 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°50'N 117°15'W September 15, 1950 0103 Wire angle: 20°
Sounding: 2,050 fms. Depth of observation: 1,173 m. Weather: overcast
Sea: rough Wind: 350°, force 3

0	19.90	33.64	23.77	413.6	.0000	4.52	-
10	19.91	33.68	23.80	411.3	.0414	4.18	-
20	19.87	33.68	23.81	410.7	.0827	4.35	-
30	19.87	33.68	23.81	411.0	.1239	4.33	-
50	17.25	33.93	24.65	331.2	.1985	4.28	-
75	16.25	33.77	24.77	321.3	.2805	4.64	-
100	12.10	33.64	25.53	248.2	.3522	4.80	-
150	10.30	34.00	26.14	191.4	.463	2.10	-
200	11.21	34.38	26.27	180.2	.556	.80	-
250	10.30	34.42	26.47	162.6	.643	.91	-
300	9.69	34.44	26.59	152.1	.722	.93	-
400	8.98	34.51	26.76	137.4	.868	.40	-
500	7.84	34.52	26.94	120.9	.998	.23	-
600	6.37	34.45	27.09	106.5	1.113	.26	-
700	5.69	34.42	27.15	100.9	1.218	.28	-
800	5.17	34.42	27.22	95.4	1.317	.31	-
1000	4.36	34.49	27.36	82.0	1.496	.50	-

STATION 120.80 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°34'N 117°50'W September 14, 1950 1831. 1849 GCT Wire angles: 15°, missing Sounding: 2,100 fms. Depth of observation: 96 m., 1,160 m. Weather: overcast Sea: rough Wind: 350°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.69	33.64	23.56	433.5	.0000	4.47	-
10	20.66	33.58	23.53	437.5	.0437	4.18	-
20	20.67	33.58	23.52	438.1	.0877	4.04	-
30	20.62	33.59	23.54	436.4	.1316	4.07	-
50	18.00	33.67	24.27	367.3	.2123	4.52	-
75	16.65	33.68	24.60	336.6	.3008	4.72	-
100	14.45	33.61	25.04	295.7	.3804	4.80	-
150	11.70	33.65	25.62	241.4	.516	3.75	-
200	10.44	34.01	26.12	194.1	.625	2.40	-
250	9.66	34.22	26.42	166.8	.716	1.50	-
300	8.91	34.28	26.59	151.4	.796	1.05	-
400	7.59	34.29	26.80	132.5	.939	.73	-
500	6.62	34.36	26.99	115.2	1.064	.40	-
600	5.90	34.38	27.10	105.4	1.176	.32	-
700	5.34	34.41	27.19	97.1	1.278	.31	-
800	4.82	34.44	27.27	89.4	1.372	.31	-
1000	4.09	34.50	27.40	78.0	1.541	.60	-

STATION 120.90 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°12'N 118°30'W September 14, 1950 1200 GCT Wire angle: 5° Sounding: 2,200 fms. Depth of observation: 1,213 m. Weather: overcast Sea: moderate Wind: 020°, force 2

0	21.15	33.86	23.61	429.4	.0000	4.82	-
10	21.16	33.82	23.57	432.9	.0433	4.68	-
20	21.18	33.86	23.60	430.9	.0867	4.72	-
30	21.19	33.86	23.60	431.5	.1299	4.91	-
50	17.65	33.65	24.34	360.7	.2096	5.22	-
75	15.85	33.53	24.67	330.1	.2964	5.19	-
100	14.37	33.67	25.10	289.7	.3744	5.14	-
150	11.15	33.76	25.80	223.6	.504	4.00	-
200	10.85	34.21	26.21	186.4	.607	1.81	-
250	10.10	34.46	26.53	156.3	.693	1.29	-
300	9.20	34.52	26.73	138.2	.767	1.04	-
400	8.20	34.47	26.85	128.3	.902	.61	-
500	6.80	34.43	27.02	112.5	1.023	.44	-
600	6.20	34.52	27.17	99.2	1.130	.40	-
700	5.63	34.50	27.23	94.2	1.227	.41	-
800	5.07	34.47	27.27	90.4	1.321	.43	-
1000	4.17	34.58	27.46	73.0	1.486	.63	-

STATION 120.100 (Interpolated Values at Standard Depths)

PAOLINA-T: 25°51'N 119°10'W September 14, 1950 0528 GCT Wire angle: 10°
Sounding: 2,150 fms. Depth of observation: 1,212 m. Weather: overcast
Sea: rough Wind: 010°, force 3-4

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	21.51	34.05	23.65	425.0	.0000	4.68	-
10	21.51	34.04	23.65	426.1	.0427	4.05	-
20	21.47	34.03	23.65	426.1	.0855	4.21	-
30	21.43	34.03	23.66	425.5	.1283	4.22	-
50	18.25	33.62	24.18	376.8	.2089	4.23	-
75	15.75	33.51	24.68	329.4	.2977	5.02	-
100	14.00	33.57	25.10	289.5	.3755	4.63	-
150	11.05	33.81	25.86	218.2	.503	3.25	-
200	9.75	34.15	26.35	172.4	.602	2.25	-
250	9.05	34.34	26.61	148.2	.682	1.45	-
300	8.54	34.40	26.74	136.8	.754	.93	-
400	7.63	34.38	26.86	126.4	.887	.50	-
500	6.75	34.36	26.97	117.0	1.019	.30	-
600	5.95	34.41	27.11	103.8	1.121	.29	-
700	5.38	34.48	27.24	92.5	1.220	.30	-
800	4.95	34.52	27.32	85.2	1.310	.32	-
1000	4.22	34.52	27.40	78.1	1.475	.48	-

STATION 120.110 (Interpolated Values at Standard Depths)

PAOLINA-T: 25°32'N 119°45'W September 13, 1950 2300, 2323 GCT Wire angles: 14°, 13° Sounding: 2,150 fms. Depths of observation: 97, 1,191 m. Weather: overcast Sea: rough Wind: 360°, force 3

0	21.20	33.82	23.56	433.6	.0000	4.54	-
10	21.20	33.77	23.53	437.6	.0437	4.50	-
20	21.17	33.82	23.57	433.5	.0875	4.53	-
30	21.09	33.82	23.59	431.8	.1309	4.75	-
50	17.54	33.66	24.15	379.3	.2124	5.17	-
75	16.21	33.63	24.67	330.6	.3016	5.05	-
100	14.71	33.60	24.98	301.7	.3812	4.51	-
150	14.00	33.71	25.21	280.6	.528	3.30	-
200	11.30	34.03	25.99	207.5	.651	2.06	-
250	9.87	34.19	26.36	172.4	.746	1.39	-
300	8.80	34.28	26.61	149.7	.827	.89	-
400	7.70	34.36	26.84	128.9	.968	.37	-
500	6.53	34.36	27.00	114.0	1.090	.34	-
600	5.80	34.36	27.09	105.6	1.201	.32	-
700	5.30	34.40	27.19	97.4	1.304	.35	-
800	4.89	34.47	27.29	88.1	1.397	.42	-
1000	4.11	34.52	27.41	76.7	1.564	.58	-

STATION 123.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 27°15'N 114°54'W September 8, 1950 1353, 1406 GCT Wire angles: 31°, 35° Sounding: 285 fms. Depths of observation: 84, 372 m. Weather: partly cloudy Sea: smooth Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.02	33.69	23.78	413.0	.0000	-	-
10	20.02	33.66	23.76	415.5	.0416	4.95	-
20	20.02	33.66	23.76	415.9	.0833	5.16	-
30	16.75	33.57	24.50	345.5	.1216	5.18	-
50	12.41	33.50	25.37	262.9	.1827	4.89	-
75	11.09	33.67	25.74	227.5	.2443	4.00	-
100	10.21	33.79	25.99	204.4	.2987	3.04	-
150	9.15	33.94	26.29	177.4	.395	2.84	-
200	9.24	34.16	26.44	163.6	.481	2.06	-
250	8.62	34.11	26.50	158.5	.562	1.91	-
300	8.47	34.28	26.66	144.6	.658	1.15	-

STATION 123.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°57'N 115°30'W September 8, 1950 1938 GCT Wire angle: 18° Sounding: 2,050 fms. Depth of observation: 1,347 m. Weather: cloudy Sea: moderate Wind: 320°, force 4

0	19.55	33.66	23.88	403.6	.0000	4.57	-
10	19.43	33.68	23.92	399.5	.0403	4.05	-
20	19.35	33.62	23.90	402.2	.0806	5.00	-
30	16.15	33.58	24.64	331.6	.1174	5.16	-
50	12.80	33.60	25.37	262.8	.1771	4.30	-
75	10.47	33.73	25.90	212.6	.2369	3.38	-
100	10.00	33.84	26.07	197.3	.2885	2.78	-
150	9.85	34.26	26.42	164.8	.380	1.45	-
200	9.55	34.30	26.50	158.1	.461	1.09	-
250	9.05	34.33	26.61	148.9	.538	.86	-
300	8.55	34.45	26.78	133.3	.609	.39	-
400	7.57	34.49	26.96	117.4	.736	.20	-
500	6.55	34.39	27.02	112.0	.851	.25	-
600	5.60	34.37	27.13	102.2	.959	.36	-
700	5.08	34.46	27.26	90.1	1.057	.40	-
800	4.73	34.50	27.33	83.9	1.144	.45	-
1000	4.02	34.52	27.42	75.6	1.306	.56	-

STATION 123.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°38.5'N 116°09'W September 9, 1950 0214 GCT Wire angle: 30°
Sounding: 2,100 fms. Depth of observation: 1,141 m. Weather: overcast
Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.84	33.61*	23.77	414.3	.0000	4.72	-
10	19.83	33.63*	23.78	413.0	.0415	4.38	-
20	19.81	33.64*	23.80	412.1	.0829	4.36	-
30	19.80	33.62*	23.78	413.6	.1244	4.65	-
50	14.87	33.44*	24.82	315.3	.1977	5.54	-
75	12.83	33.48*	25.27	272.8	.2716	4.76	-
100	11.58	33.63*	25.62	238.9	.3359	4.42	-
150	9.77	33.86*	26.12	193.1	.445	3.43	-
200	9.65	34.23*	26.43	164.8	.535	1.61	-
250	9.38	34.31*	26.54	155.6	.616	1.13	-
300	9.10	34.38*	26.64	147.0	.692	.87	-
400	8.88	34.44*	26.72	141.0	.837	.32	-
500	7.21	34.46*	26.99	116.1	967	.30	-
600	6.17	34.48*	27.14	101.6	1.077	.37	-
700	5.40	34.48*	27.24	92.7	1.175	.32	-
800	4.84	34.48*	27.30	86.7	1.265	.34	-
1000	3.95	34.50*	27.42	76.3	1.430	.51	-

* Sequence of salinity samples uncertain

STATION 127.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°43.5'N 114°29.5'W September 9, 1950 2123 GCT Wire angle: 23° Sounding: 1,600 fms. Depth of observation: 1,277 m.
Weather: haze Sea: rough Wind: 320°, force 5

0	20.37	33.64	23.65	425.4	.0000	4.63	-
10	20.22	33.61	23.67	424.2	.0426	4.35	-
20	20.05	33.57	23.68	423.1	.0852	4.32	-
30	17.05	33.57	24.43	352.2	.1241	4.33	-
50	15.80	33.60	24.74	323.2	.1920	4.93	-
75	13.90	33.55	25.11	288.4	.2689	4.85	-
100	11.93	33.59	25.53	248.8	.3364	4.12	-
150	9.37	33.81	26.15	190.4	.447	3.23	-
200	8.85	34.02	26.32	175.3	.539	2.65	-
250	8.55	34.20	26.58	150.8	.621	1.93	-
300	8.26	34.29	26.70	140.7	.695	1.19	-
400	7.45	34.33	26.85	127.5	.830	.68	-
500	6.57	34.36	26.99	114.5	.952	.35	-
600	5.90	34.40	27.11	103.9	1.062	.30	-
700	5.34	34.47	27.24	92.7	1.161	.31	-
800	4.90	34.51	27.32	85.3	1.251	.32	-
1000	4.18	34.53	27.42	76.8	1.415	.45	-

STATION 127.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°23.5'N 115°08'W September 9, 1950 1441 GCT Wire angle: 20°
Sounding: 2,000 fms. Depth of observation: 1,217 m. Weather: cloudy
Sea: very rough Wind: 320°, force 5-6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.40	33.55	23.57	432.7	.0000	4.82	-
10	20.39	33.57	23.59	431.3	.0434	5.05	-
20	20.38	33.51	23.55	435.8	.0869	4.88	-
30	17.80	33.48	24.18	375.9	.1276	4.78	-
50	16.50	33.52	24.52	344.2	.2000	4.96	-
75	14.93	33.76	25.05	293.9	.2802	4.96	-
100	13.38	33.75	25.37	264.2	.3504	4.80	-
150	12.12	34.20	25.96	208.6	.469	1.00	-
200	11.30	34.52	26.37	171.5	.565	.65	-
250	10.45	34.50	26.50	159.3	.648	.65	-
300	9.62	34.42	26.58	152.4	.727	.63	-
400	8.22	34.41	26.80	133.0	.871	.50	-
500	7.24	34.43	26.96	118.7	.998	.28	-
600	6.40	34.43	27.07	108.4	1.112	.25	-
700	5.75	34.44	27.16	100.2	1.218	.39	-
800	5.23	34.47	27.25	92.4	1.315	.51	-
1000	4.26	34.57	27.44	74.9	1.484	.55	-

STATION 127.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°03.5'N 115°46.5'W September 9, 1950 0803 GCT Wire angle: 20° Sounding: 2,050 fms. Depth of observation: 1,236 m.
Weather: partly cloudy Sea: rough Wind: 320°, force 5

0	20.53	33.56 *	23.55	435.3	.0000	4.99	-
10	20.53	33.58 *	23.56	434.2	.0436	5.03	-
20	20.53	33.54 *	23.53	437.4	.0874	5.12	-
30	18.60	33.47 *	23.97	395.4	.1292	5.28	-
50	16.05	33.40 *	24.53	343.2	.2034	5.68	-
75	14.75	33.37 *	24.79	318.7	.2866	5.85	-
100	13.75	33.64 *	25.21	279.5	.3619	5.40	-
150	10.98	33.75 *	25.83	221.4	.488	3.77	-
200	11.15	34.41 *	26.31	176.9	.588	1.04	-
250	10.70	34.46 *	26.43	166.5	.675	.52	-
300	10.00	34.47 *	26.56	155.0	.756	.29	-
400	9.02	34.48 *	26.73	140.3	.904	.19	-
500	7.60	34.52 *	26.98	117.3	1.034	.21	-
600	6.41	34.52 *	27.14	101.9	1.145	.23	-
700	5.65	34.52 *	27.24	93.0	1.243	.26	-
800	5.13	34.53 *	27.31	86.7	1.334	.29	-
1000	4.28	34.55 *	27.42	76.6	1.499	.52	-

* Sequence of salinity samples uncertain

STATION 130.35 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°19'N 113°48.5'W September 11, 1950 2023 GCT Wire angle: 5°
Sounding: 260 fms. Depth of observation: 407 m. Weather: haze
Sea: moderate Wind: 270°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.34	34.38	24.22	371.0	.0000	4.54	-
10	20.00	34.33	24.27	366.4	.0370	4.19	-
20	19.15	34.33	24.49	345.8	.0728	4.26	-
30	17.85	34.33	24.82	315.2	.1060	4.24	-
50	13.75	34.20	25.64	237.1	.1615	1.42	-
75	10.19	33.75	25.96	206.5	.2172	3.33	-
100	12.48	34.54	26.16	189.1	.2670	.50	-
150	12.03	34.72	26.38	168.8	.357	.06	-
200	11.45	34.72	26.49	159.5	.440	.40	-
250	10.89	34.62	26.52	158.1	.520	.19	-
300	10.38	34.63	26.62	149.7	.597	.16	-
400	8.52	34.51	26.83	130.2	.738	.15	-

STATION 130.40 (Interpolated Values at Standard Depths)

PAOLINA-T: 26°07'N 114°11'W September 12, 1950 0000 GCT Wire angle: 33°
Sounding: 1,400 fms. Depth of observation: 1,031 m. Weather: haze
Sea: slight Wind: 320°, force 4

0	18.71	33.55	24.01	391.2	.0000	4.68	-
10	18.57	33.53	24.03	389.7	.0392	4.80	-
20	17.00	33.57	24.44	350.8	.0764	4.85	-
30	16.32	33.58	24.60	335.3	.1108	4.80	-
50	14.60	33.53	24.95	303.2	.1750	4.58	-
75	12.75	33.70	25.46	255.2	.2452	4.29	-
100	11.70	33.77	25.71	231.4	.3064	3.73	-
150	9.75	34.00	26.23	182.4	.411	2.20	-
200	9.62	34.25	26.45	162.9	.497	1.24	-
250	9.55	34.41	26.59	151.0	.577	.77	-
300	9.10	34.45	26.69	141.8	.650	.56	-
400	7.80	34.40	26.85	127.5	.786	.34	-
500	6.58	34.36	26.99	114.6	.908	.33	-
600	6.02	34.40	27.10	105.5	1.019	.28	-
700	5.45	34.45	27.21	95.6	1.121	.27	-
800	4.91	34.48	27.30	87.6	1.213	.32	-
1000	4.08	34.49	27.39	78.6	1.381	.52	-

STATION 130.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 25°47'N 114°55'W September 12, 1950 0606 GCT Wire angle: 10°
Sounding: 2,100 fms. Depth of observation: 1,232 m. Weather: haze
Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^3\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.87	33.57	23.73	418.0	.0000	4.83	-
10	19.87	33.57	23.73	418.3	.0420	4.64	-
20	19.75	33.57	23.76	415.7	.0838	4.69	-
30	18.75	33.57	24.01	391.7	.1244	4.85	-
50	16.47	33.54	24.54	342.1	.1981	5.14	-
75	14.10	33.51	25.04	295.3	.2782	5.20	-
100	12.43	33.60	25.44	257.2	.3477	4.93	-
150	11.31	34.08	26.02	202.9	.464	1.52	-
200	10.61	34.30	26.32	175.6	.559	1.28	-
250	10.02	34.41	26.51	158.7	.643	1.00	-
300	9.45	34.48	26.66	145.2	.720	.64	-
400	8.45	34.51	26.84	129.1	.858	.35	-
500	7.20	34.43	26.96	118.2	.983	.30	-
600	6.47	34.50	27.12	104.2	1.095	.27	-
700	5.87	34.52	27.21	95.9	1.196	.28	-
800	5.27	34.50	27.27	90.7	1.290	.35	-
1000	4.25	34.50	27.38	79.9	1.463	.50	-

STATION 130.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 25°27'N 115°34'W September 12, 1950 1232 GCT Wire angle: 31°
Sounding: 2,100 fms. Depth of observation: 1,174 m. Weather: partly cloudy
Sea: rough Wind: 320°, force 5

0	19.55	33.60	23.83	407.9	.0000	4.51	-
10	19.55	33.57	23.81	410.4	.0411	4.61	-
20	19.51	33.58	23.83	409.0	.0822	4.62	-
30	18.65	33.57	24.04	389.3	.1223	4.71	-
50	14.45	33.31	24.81	316.3	.1932	5.03	-
75	12.17	33.50	25.41	259.1	.2655	4.55	-
100	11.65	33.68	25.65	237.1	.3280	3.62	-
150	12.01	34.53	26.24	182.4	.434	.40	-
200	12.15	34.63	26.29	178.9	.525	.47	-
250	11.21	34.65	26.48	161.5	.610	.33	-
300	10.25	34.64	26.65	146.7	.688	.27	-
400	8.35	34.46	26.82	131.3	.828	.45	-
500	6.97	34.37	26.95	119.3	.954	.48	-
600	6.39	34.49	27.12	103.9	1.067	.29	-
700	5.69	34.49	27.21	95.8	1.168	.27	-
800	5.07	34.49	27.28	88.9	1.261	.29	-
1000	4.29	34.55	27.42	76.7	1.428	.42	-

STATION 130.70 (Interpolated Values at Standard Depths)

PAOLINA -T: 25°08'N 116°06'W September 12, 1950 1821 GCT Wire angle: 5°
Sounding: 2,100 fms. Depth of observation: 1,201 m. Weather: cloudy
Sea: rough Wind: 350°, 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	21.65	33.84	23.45	44.39	.0000	4.00	-
10	21.63	33.86	23.48	442.3	.0445	4.22	-
20	21.50	33.82	23.48	442.1	.0889	4.65	-
30	18.00	33.53	24.17	376.9	.1300	4.83	-
50	14.40	33.42	24.90	307.2	.1988	4.95	-
75	12.43	33.64	25.47	253.6	.2692	4.13	-
100	11.32	33.69	25.72	230.6	.3302	3.02	-
150	10.72	34.16	26.19	186.7	.435	1.70	-
200	10.30	34.45	26.49	159.4	.522	.87	-
250	9.63	34.48	26.63	147.1	.599	.52	-
300	8.93	34.47	26.73	137.7	.671	.37	-
400	7.75	34.43	26.88	124.5	.803	.28	-
500	6.70	34.40	27.01	113.3	.923	.35	-
600	6.05	34.43	27.12	103.7	1.033	.30	-
700	5.40	34.47	27.23	93.5	1.132	.33	-
800	4.89	34.49	27.31	86.6	1.223	.43	-
1000	4.17	34.51	27.40	78.2	1.390	.60	-

STATION 130.80 (Interpolated Values at Standard Depths)

PAOLINA-T: 24°48.5'N 116°40'W September 12, 1950 2355 GCT Wire angle: 22° Sounding: 2,150 fms. Depth of observation: 1,147 m.
Weather: cloudy Sea: rough Wind: 340°, force 3

0	22.18	33.91	23.36	452.9	.0000	3.63	-
10	22.14	33.86	23.33	455.8	.0456	3.46	-
20	21.98	33.86	23.38	451.9	.0912	3.40	-
30	21.96	33.85	23.38	452.4	.1366	3.44	-
50	14.60	33.44	24.88	309.8	.2132	4.34	-
75	12.37	33.60	25.45	255.5	.2842	3.78	-
100	11.31	33.69	25.72	230.4	.3454	2.18	-
150	10.70	34.29	26.30	176.8	.448	.98	-
200	10.13	34.42	26.50	158.7	.532	.61	-
250	9.73	34.45	26.59	151.0	.610	.32	-
300	9.18	34.45	26.68	143.1	.684	.20	-
400	7.86	34.42	26.86	126.9	.820	.22	-
500	6.84	34.42	27.01	113.8	.942	.20	-
600	6.04	34.41	27.10	105.0	1.052	.26	-
700	5.38	34.35	27.14	102.1	1.157	.31	-
800	4.85	34.35	27.20	96.5	1.257	.37	-
1000	4.03	34.50	27.41	77.2	1.433	.50	-

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