

DRAFTING ROOM  
NOT CORRECTED

UNIVERSITY OF CALIFORNIA  
SCRIPPS INSTITUTION OF OCEANOGRAPHY

Physical and Chemical Data  
Cruise 20  
Marine Life Research Program

9-28 November 1950

Prepared by  
Marine Life Research Program Division of Oceanography

Sponsored by  
Marine Research Committee

Reference 51-47  
15 November 1951

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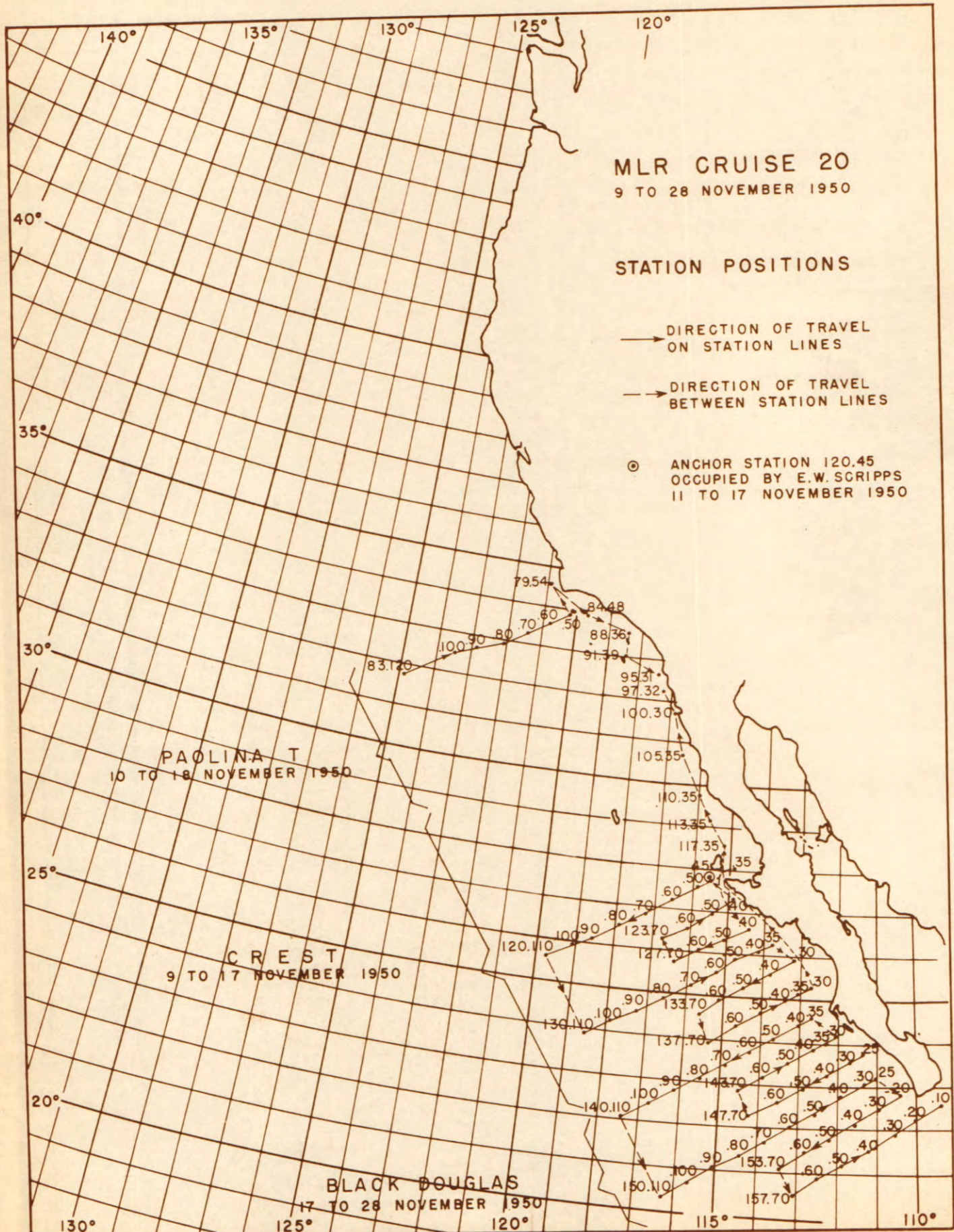
15 November 1951

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## INTRODUCTION

The data presented in this report were collected on the twentieth full-scale cruise conducted in the Marine Life Research Program. The four ships participating were the MV PAOLINA-T, the MV CREST and the MV E. W. SCRIPPS 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 for the PAOLINA-T, CREST and BLACK DOUGLAS data, and of tabulated values at both standard and observed depths and graphs of time variation for the E. W. SCRIPPS. 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 97.32, 113.35, 117.35, 120.50, 123.50, 130.35, 130.40, 137.40, 137.60, 143.40, 147.40, 153.30 and cast K-15 of the anchor series, 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.

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., Associate in Oceanography

Marine Superintendent

Stose, Clemens W.

Ships' Captains

Brandal, G., MV CREST  
Davis, L. E. MV PAOLINA-T  
Joelson, S. M., MV BLACK DOUGLAS  
Newbegin, R. C., MV E. W. SCRIPPS

## PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Beckwith, Warren W., Jr., Senior Marine Technician  
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Eckles, Howard H., Marine Biologist  
Colter, John C., Chemistry Aid  
Counts, Robert C., Marine Biologist  
Dougherty, Jack B., Marine Biologist  
Widrig, Theodore M., Statistician  
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MV CREST

Horrer, Paul L., Associate in Oceanography  
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Koide, Minoru, Marine Technician, Chemical  
Mao, Han-Lee, Research Assistant  
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MV E. W. SCRIPPS

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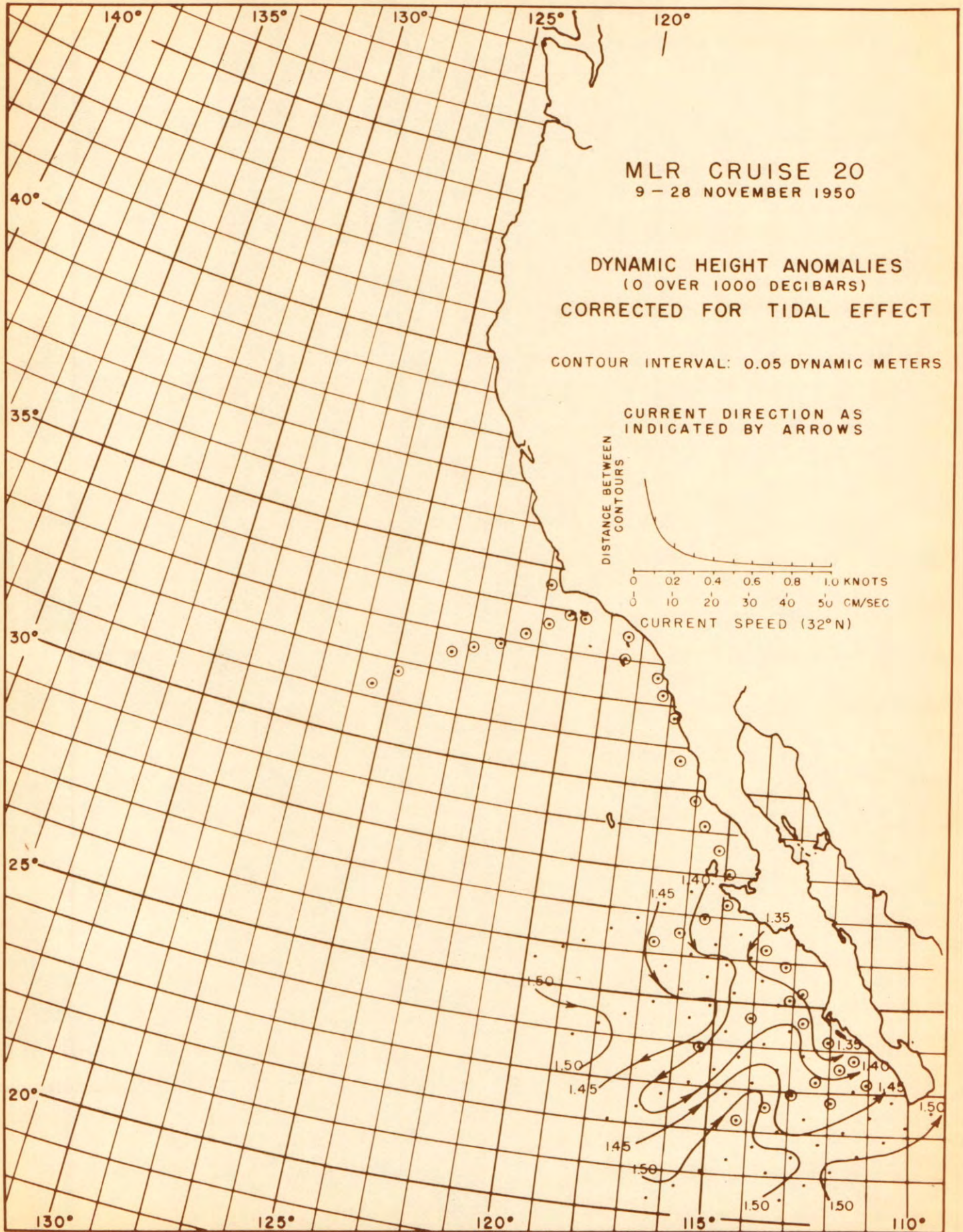
MV PAOLINA-T

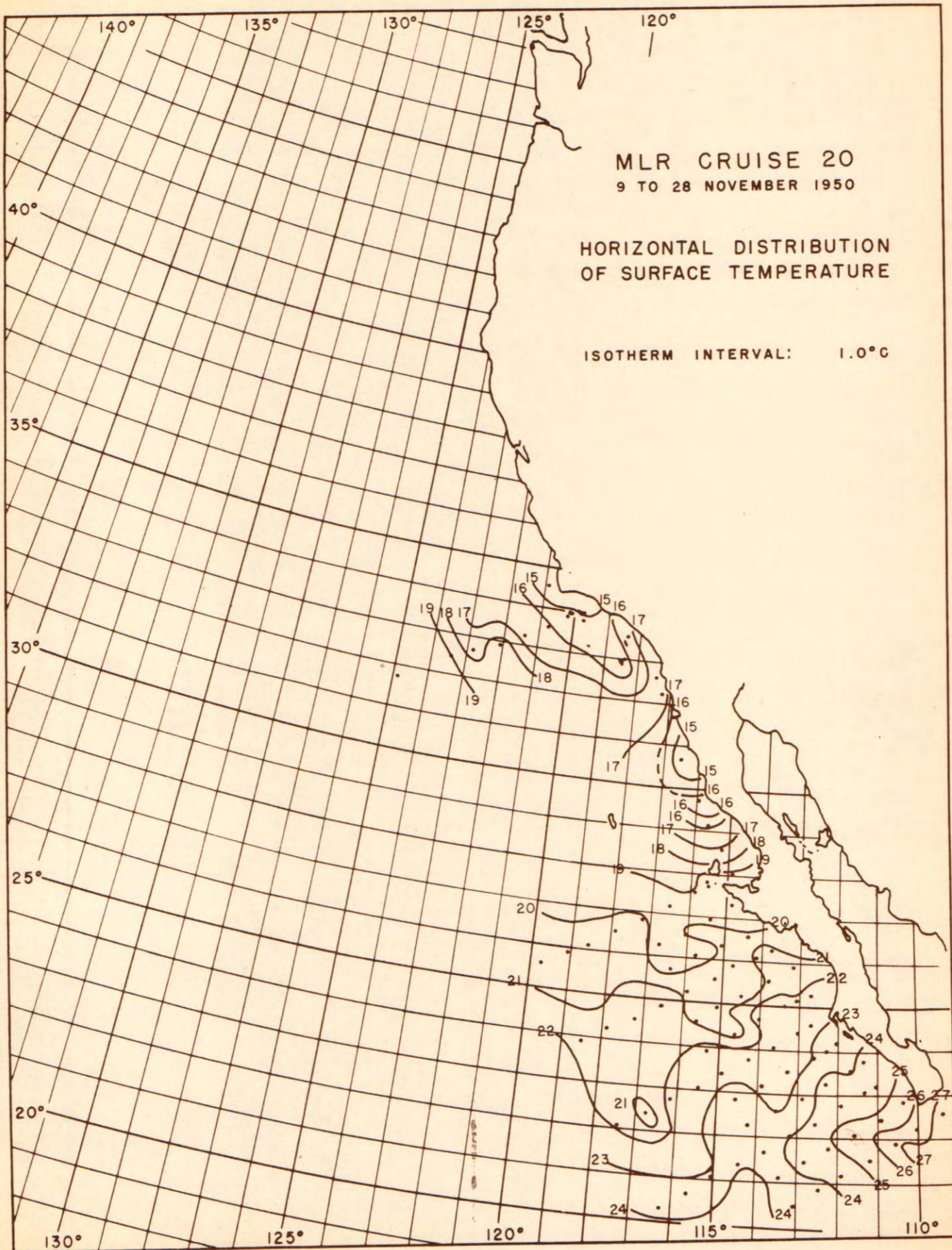
Sampson, Robert K., Jr., Senior Marine Technician  
Johnson, Norman W., Marine Technician  
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Riley, Gordon A., Bingham Oceanography Laboratory, Yale University

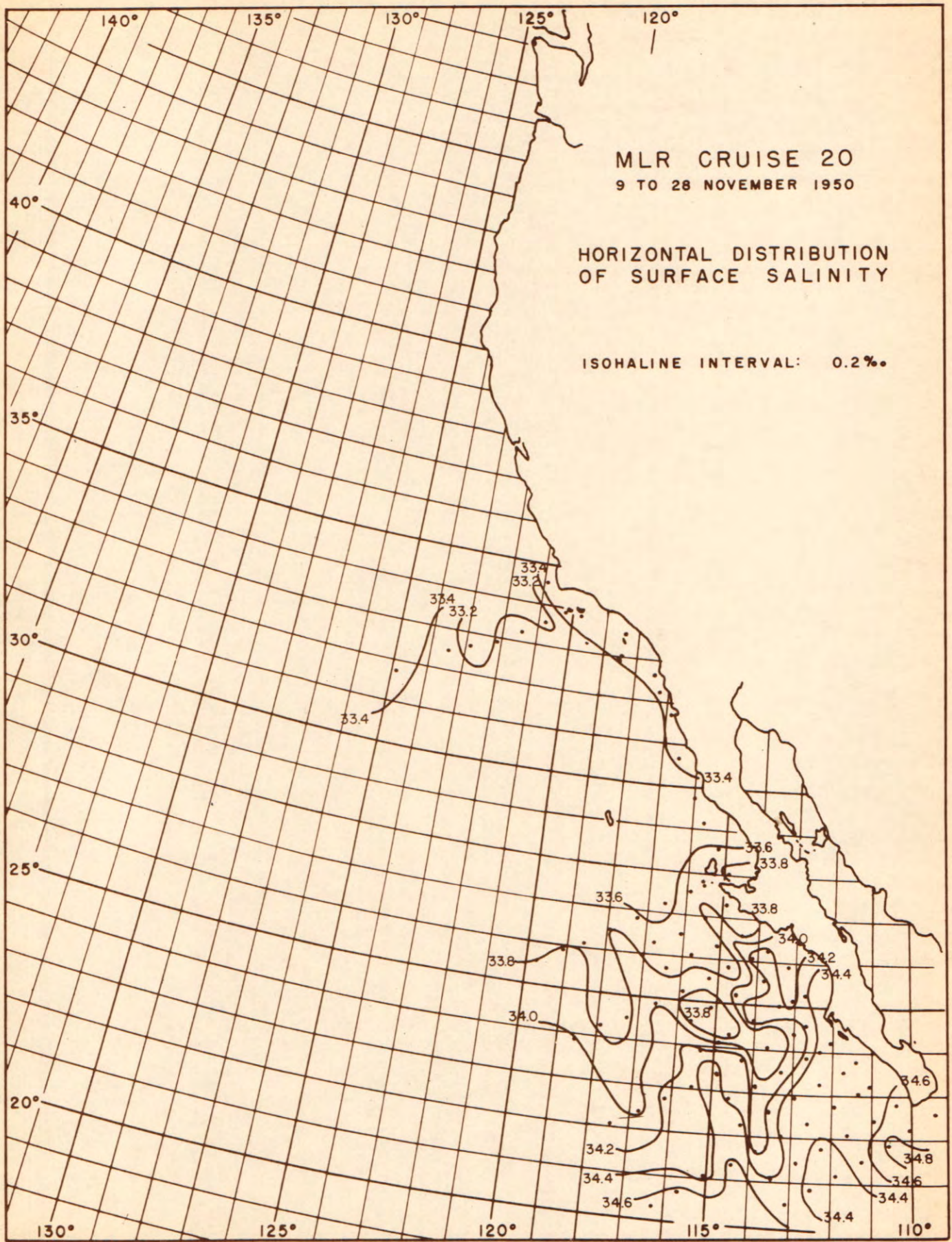
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Barstow, Mary C., Laboratory Technician  
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Eby, Lorraine L., Engineering Aid  
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Haddow, Robert W., Marine Technician  
Haulman, Doris V., Engineering Aid  
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Hutchins, Dorsey M., Typist-Clerk  
Jellison, Donald L., Engineering Aid  
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Kartrude, Robert C., Senior Engineering Aid  
Kirk, Robert W., Laboratory Technician  
Klein, Hans T., Principal Laboratory Technician  
Love, Cuthbert M., Research Assistant  
Mao, Han-Lee, Research Assistant  
Matheny, Gladys K., Engineering Aid  
McClendon, Robert I., Marine Technician  
Mead, Richard V., Principal Marine Technician  
Messner, Gordon P., Marine Technician  
Metzger, June C., Typist-Clerk  
Miller, Bernadette L., Engineering Aid  
Payne, Miles M., Marine Technician  
Propsner, Ruth O., Engineering Aid  
Ratty, Donald K., Marine Technician  
Ridgely, Johanna W., Laboratory Technician  
Sease, Jean R., Marine Technician  
Smith, Alan C., Senior Marine Technician  
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







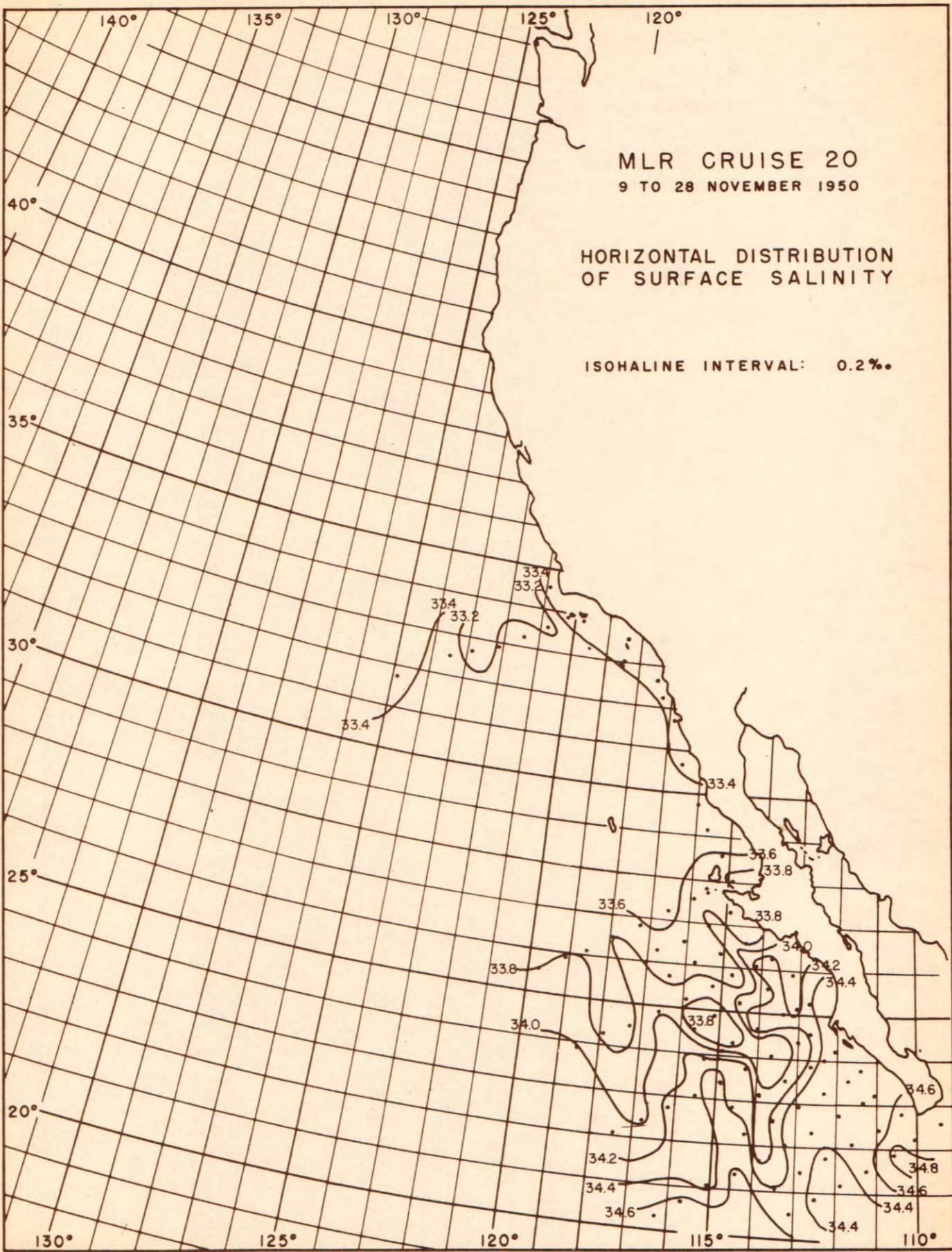


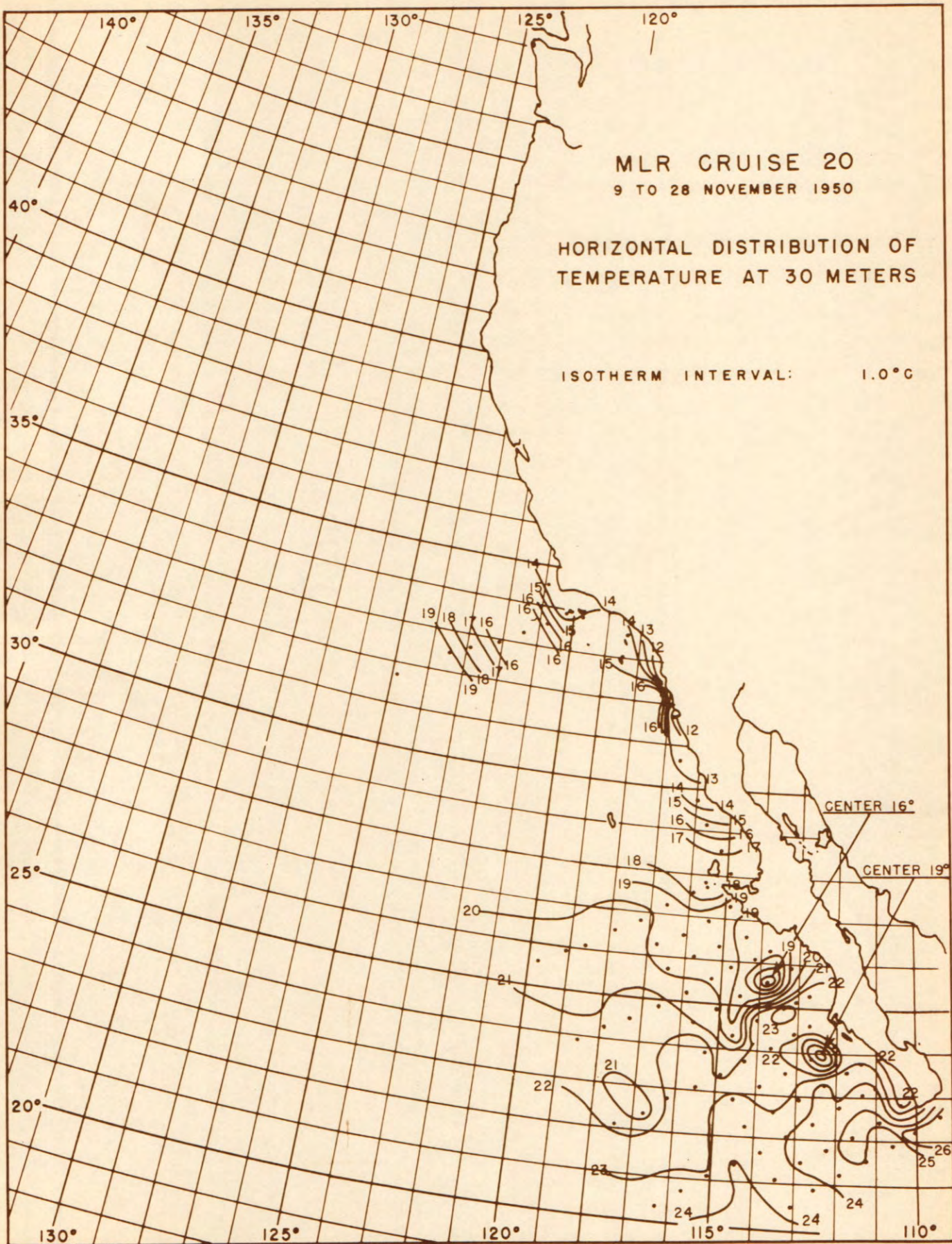
MLR CRUISE 20

9 TO 28 NOVEMBER 1950

HORIZONTAL DISTRIBUTION  
OF SURFACE SALINITY

ISOHALINE INTERVAL: 0.2‰





CAST: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

# TIME VARIATION OF DYNAMIC HEIGHT ANOMALIES

(0 OVER 300 DECIBARS)

MIB CRUISE 20

STA. 120.45

DYNAMIC METERS

.690

.680

.670

.660

.650

.640

DATE & TIME: GCT →

NOV. 13, 1950

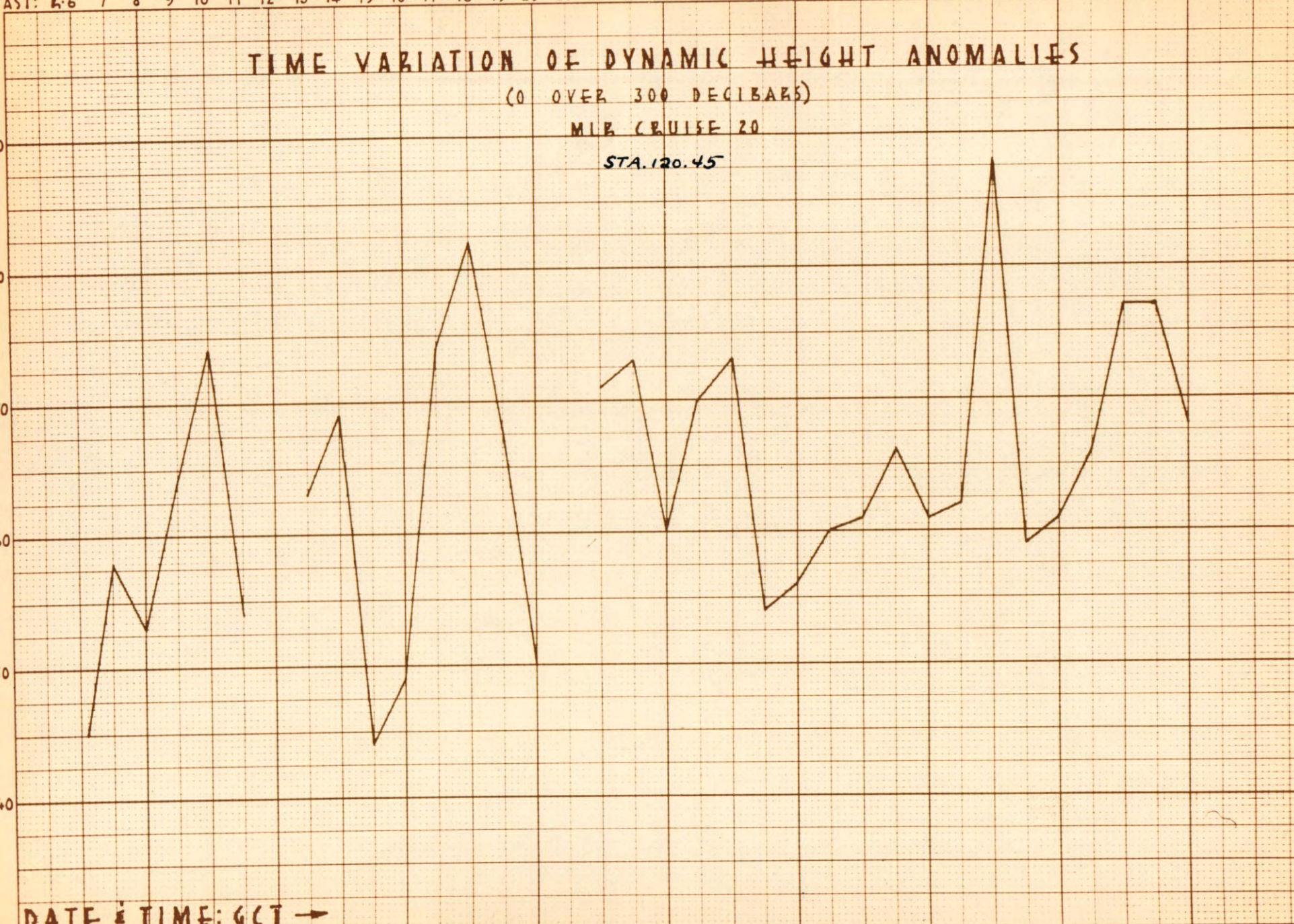
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NOV. 15

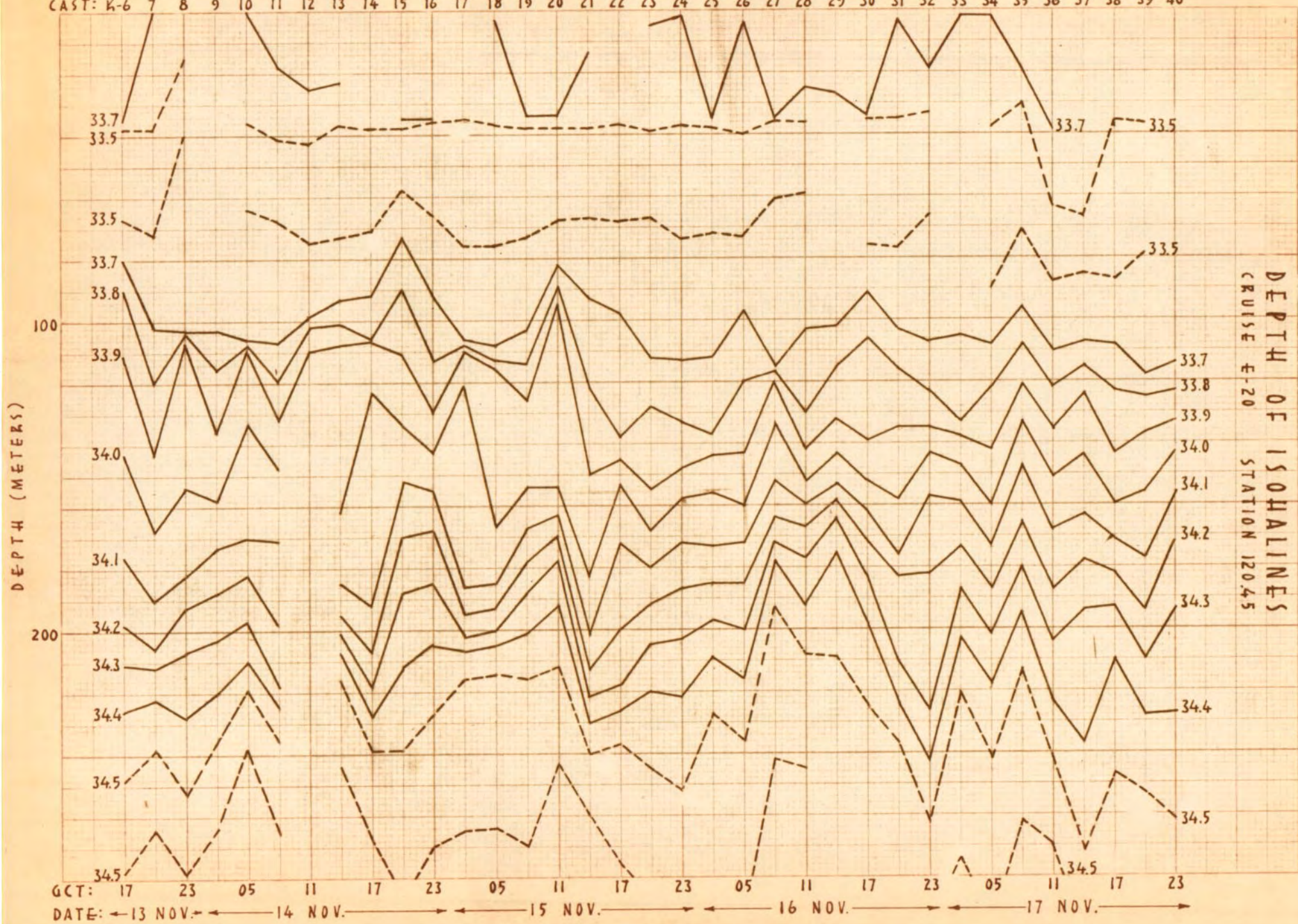
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NOV. 17

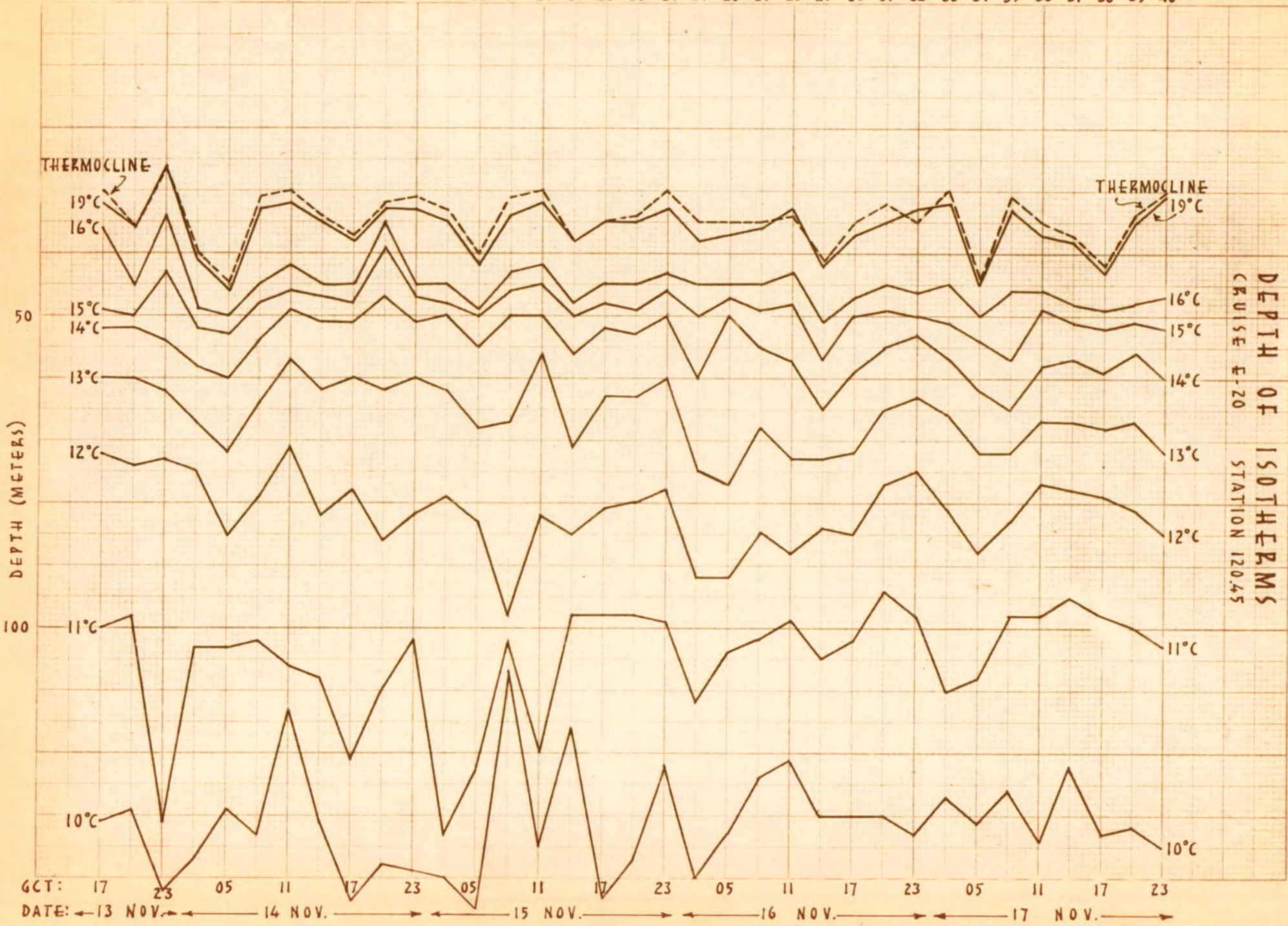
20 02 08 14 20 02 08 14 20 02 08 14 20 02 08 14 20



CAST: 6-6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40



CAST: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40



## STATION 83.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°53'N 120°12'W November 12, 1950 2225 GCT Wire angle: 0°  
 Sounding: 100 fms. Depth of observation: 150 m. Weather: partly cloudy  
 Sea: slight Wind: calm

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	15.35	33.46	24.73	322.8	.0000	-	-
10	15.11	33.54	24.84	312.2	.0319	-	-
20	14.72	33.57	24.95	302.2	.0627	-	-
30	13.97	33.59	25.12	286.1	.0923	-	-
50	11.47	33.62	25.64	237.6	.1449	-	-
75	10.75	33.65	25.79	223.5	.2028	-	-
100	9.75	33.69	25.99	204.6	.2567	-	-
150	9.07	33.86	26.24	182.1	.354	-	-

## STATION 83.50 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°50'N 120°07'W November 13, 1950 1720 GCT Wire angle: 12°  
 Sounding: 210 fms. Depth of observation: 307 m. Weather: squally  
 Sea: slight Wind: 180°, force 3

0	15.12	33.51	24.82	314.0	.0000	-	-
10	15.00	33.57	24.89	307.4	.0312	-	-
20	14.72	33.48	24.88	308.5	.0621	-	-
30	13.65	33.48	25.11	287.4	.0920	-	-
50	11.00	33.49	25.62	238.7	.1449	-	-
75	9.94	33.63	25.91	211.3	.2015	-	-
100	9.54	33.76	26.08	195.8	.2527	-	-
150	8.79	34.05	26.43	163.7	.343	-	-
200	8.48	34.05	26.48	159.9	.425	-	-
250	8.16	34.28	26.71	139.1	.500	-	-
300	7.79	34.24	26.73	137.5	.570	-	-



## STATION 79.54 (Interpolated Values at Standard Depths)

PAOLINA-T: 34°34'N 120°51'W November 14, 1950 1614 GCT Wire angle: 5°  
 Sounding: 145 fms. Depth of observation: 149 m. Weather: partly cloudy  
 Sea: moderate Wind: 260°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	14.30	33.48	24.97	299.4	.0000	-	-
10	14.30	33.36	24.87	308.5	.0305	-	-
20	14.20	33.42	24.95	302.4	.0612	-	-
30	13.85	33.46	25.05	292.8	.0911	-	-
50	11.65	33.31	25.36	263.2	.1469	-	-
75	10.45	33.57	25.78	224.1	.2082	-	-
100	9.62	33.64	25.97	206.0	.2623	-	-
150	(8.97)	(33.92)	(26.30)	(176.1)	(.358)	-	-

## STATION 84.48 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°53.5'N 119°46'W November 15, 1950 1705 GCT Wire  
 angle: 6° Sounding: 650 fms. Depth of observation: 312 m. Weather:  
 partly cloudy Sea: slight Wind: 200°, force 1

0	15.06	33.46	24.79	316.4	.0000	-	-
10	14.90	33.46	24.83	313.4	.0316	-	-
20	14.62	33.46	24.89	307.9	.0628	-	-
30	14.07	33.46	25.00	297.1	.0932	-	-
50	10.93	33.53	25.66	234.5	.1466	-	-
75	9.95	33.60	25.89	213.7	.2029	-	-
100	9.67	33.78	26.08	196.4	.2545	-	-
150	9.03	33.98	26.34	172.6	.347	-	-
200	8.86	34.02	26.39	167.9	.433	-	-
250	8.43	34.08	26.51	157.9	.515	-	-
300	8.06	34.14	26.61	148.8	.592	-	-

## STATION 88.36 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°35.3'N 118°26.5'W November 16, 1950 1705 GCT Wire angle: 0°  
 Sounding: 450 fms. Depth of observation: 315 m. Weather: partly cloudy  
 Sea: slight Wind: 340°, force 1

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	16.89	33.51	24.42	352.1	.0000	-	-
10	16.91	33.60	24.48	346.3	.0351	-	-
20	16.00	33.46	24.58	336.8	.0694	-	-
30	14.05	33.46	25.01	296.7	.1012	-	-
50	11.42	33.46	25.52	248.1	.1559	-	-
75	10.54	33.58	25.77	224.8	.2154	-	-
100	10.05	33.69	25.94	209.2	.2700	-	-
150	9.04	33.93	26.30	176.4	.367	-	-
200	8.82	34.12	26.48	159.9	.452	-	-
250	8.50	34.22	26.61	148.6	.529	-	-
300	7.90	34.17	26.66	144.2	.603	-	-

## STATION 91.39 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°00'N 118°29'W November 17, 1950 1655 GCT Wire angle: 0°  
 Sounding: 650 fms. Depth of observation: 315 m. Weather: drizzle  
 Sea: slight Wind: 340°, force 2

0	15.99	33.42	24.56	339.0	.0000	-	-
10	15.95	33.43	24.57	337.7	.0340	-	-
20	15.50	33.40	24.65	330.5	.0675	-	-
30	14.05	33.39	24.95	301.9	.0993	-	-
50	11.04	33.48	25.61	240.1	.1537	-	-
75	9.99	-	-	-	-	-	-
100	9.60	-	-	-	-	-	-
150	8.97	-	-	-	-	-	-
200	8.72	-	-	-	-	-	-
250	8.29	-	-	-	-	-	-
300	7.91	-	-	-	-	-	-



## STATION 83.70 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°15'N 121°26'W November 12, 1950 0755 GCT Wire  
 angle: 3° Sounding: 2,000 fms. Depth of observation: 313 m.  
 Weather: clear Sea: moderate Wind: 340°, force 1

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	16.28	33.33	24.42	351.8	.0000	-	-
10	16.27	33.33	24.42	351.9	.0353	-	-
20	16.28	33.36	24.44	350.2	.0706	-	-
30	15.50	33.37	24.63	333.0	.1049	-	-
50	12.10	33.28	25.26	273.5	.1658	-	-
75	9.83	33.51	25.84	218.4	.2276	-	-
100	9.00	33.77	26.18	186.7	.2786	-	-
150	7.95	33.84	26.39	166.9	.368	-	-
200	7.43	33.96	26.56	151.5	.448	-	-
250	7.21	34.08	26.69	140.3	.521	-	-
300	6.93	34.16	26.79	131.3	.590	-	-

## STATION 83.80 (Interpolated Values at Standard Depths)

PAOLINA-T: 32°56'N 122°02'W November 12, 1950 0228 GCT Wire  
 angle: 9° Sounding: 2,000 fms. Depth of observation: 310 m.  
 Weather: clear Sea: slight Wind: 060°, force 1

0	18.32	33.28	23.90	401.6	.0000	-	-
10	17.40	33.22	24.08	385.0	.0395	-	-
20	16.72	33.10	24.14	378.8	.0778	-	-
30	15.75	32.97	24.26	367.6	.1153	-	-
50	11.12	32.95	25.18	280.6	.1804	-	-
75	9.15	33.13	25.65	235.9	.2454	-	-
100	9.19	33.39	25.85	217.7	.3024	-	-
150	8.63	33.89	26.33	173.1	.401	-	-
200	7.97	34.09	26.58	149.5	.482	-	-
250	7.50	34.07	26.64	145.1	.556	-	-
300	7.35	34.12	26.70	140.1	.628	-	-

## STATION 83.90 (Interpolated Values at Standard Depths)

PAOLINA-T: 32°41'N 122°51'W November 11, 1950 1958 GCT Wire  
 angle: 4° Sounding: 2,200 fms. Depth of observation: 1,198 m.  
 Weather: clear Sea: rough Wind: 060°, force 1

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	(17.70)	(33.08)	23.90	401.8	.0000	-	-
10	17.52	33.10	23.96	396.5	.0401	-	-
20	17.58	33.16	23.99	393.8	.0797	-	-
30	17.62	33.18	23.99	393.6	.1193	-	-
50	16.62	33.19	24.24	370.9	.1961	-	-
75	13.50	33.08	24.83	315.0	.2823	-	-
100	10.40	33.08	25.41	259.9	.3546	-	-
150	8.87	33.57	26.04	200.5	.471	-	-
200	8.24	33.96	26.44	163.1	.562	-	-
250	7.75	34.13	26.65	144.2	.639	-	-
300	7.17	34.18	26.77	133.1	.709	-	-
400	6.07	34.21	26.94	117.6	.836	-	-
500	5.20	34.23	27.06	106.4	.949	-	-
600	4.67	34.32	27.20	94.4	1.050	-	-
700	4.39	34.38	27.27	87.6	1.142	-	-
800	4.22	34.43	27.33	82.9	1.228	-	-
1000	3.85	34.51	27.43	74.3	1.387	-	-

## STATION 83.100 (Interpolated Values at Standard Depths)

PAOLINA-T: 32°29'N 123°29'W November 11, 1950 1355 GCT Wire  
 angle: 0° Sounding: 2,000 fms. Depth of observation: 606 m.  
 Weather: cloudy Sea: rough Wind: 040°, force 1

0	19.09	(33.37)	23.77	413.4	.0000	-	-
10	19.09	33.35	23.76	413.5	.0416	-	-
20	19.13	33.32	23.73	418.7	.0835	-	-
30	19.23	33.31	23.69	422.1	.1257	-	-
50	19.53	33.58	23.82	410.5	.2093	-	-
75	16.07	33.30	24.45	351.6	.3051	-	-
100	13.35	33.26	25.00	299.5	.3871	-	-
150	9.80	33.26	25.65	237.9	.522	-	-
200	8.58	33.80	26.27	180.0	.628	-	-
250	7.97	33.98	26.50	158.5	.713	-	-
300	7.40	34.08	26.66	143.7	.789	-	-
400	6.28	34.21	26.91	120.3	.922	-	-
500	5.46	34.25	27.05	108.1	1.037	-	-
600	4.99	34.27	27.12	102.0	1.143	-	-

## STATION 83.120 (Interpolated Values at Standard Depths)

PAOLINA-T: 31°42'N 124°51'W November 10, 1950 1814 GCT Wire  
 angle: 7° Sounding: 2,460 fms. Depth of observation: 314 m.  
 Weather: cloudy Sea: high Wind: 350°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	19.55	33.46	23.73	418.1	.0000	-	-
10	19.55	33.44	23.71	419.9	.0420	-	-
20	19.66	33.46	23.70	421.4	.0843	-	-
30	19.68	33.45	23.69	423.0	.1267	-	-
50	18.73	33.40	23.89	404.2	.2098	-	-
75	15.55	33.39	24.63	333.9	.3026	-	-
100	13.27	33.19	24.96	303.1	.3827	-	-
150	11.47	33.46	25.51	251.3	.522	-	-
200	8.75	33.78	26.22	184.0	.632	-	-
250	8.00	33.97	26.49	159.6	.718	-	-
300	7.32	33.99	26.60	149.3	.796	-	-

## STATION 97.32 (Interpolated Values at Standard Depths)

CREST: 32°12.5'N 117°17.5'W November 21, 1950 1953 GCT Wire angle: 26°  
 Sounding: 780 fms. Depth of observation: 1,123 m. Weather: overcast  
 Sea: very rough Wind: 320°, force 4

0	17.41	33.53	24.31	362.4	.0000	5.31	.64
10	17.39	33.53	24.32	362.2	.0364	5.35	.66
20	17.17	33.51	24.35	359.0	.0726	5.45	.68
30	16.00	33.37	24.52	343.7	.1079	5.48	.77
50	11.70	33.17	25.25	274.4	.1700	5.37	1.10
75	10.66	33.37	25.59	242.3	.2349	4.75	1.50
100	10.25	33.60	25.84	219.1	.2930	3.87	1.80
150	9.36	34.00	26.30	176.2	.392	2.78	2.42
200	8.53	34.08	26.49	158.5	.477	7.21	2.71
250	7.88	34.11	26.61	147.5	.554	1.95	2.93
300	7.43	34.15	26.71	139.0	.626	1.66	3.11
400	6.81	34.29	26.91	121.5	.757	.64	3.51
500	6.23	34.33	27.02	112.1	.875	.52	3.79
600	5.65	34.42	27.16	99.2	.982	.44	3.79
700	5.14	34.51	27.29	87.2	1.076	.37	3.80
800	4.68	34.51	27.35	82.5	1.161	.39	3.80
1000	3.84	34.51	27.34	74.2	1.320	.53	-

## STATION 100.30 (Interpolated Values at Standard Depths)

CREST: 31°41'N 116°48'W November 21, 1950 1416 GCT Wire angle: 20°  
 Sounding: 270 fms. Depth of observation: 414 m. Weather: fog  
 Sea: rough Wind: 320°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	15.64	(33.38)	(24.60)	(334.4)	(.0000)	5.30	.76
10	14.60	33.38	24.83	313.1	.0325	5.30	.79
20	14.45	33.39	24.87	309.6	.0638	5.19	1.16
30	11.30	33.40	25.50	250.0	.0919	4.80	1.36
50	10.57	33.55	25.74	227.0	.1398	4.38	1.57
75	9.45	33.65	26.01	202.0	.1937	3.68	1.86
100	9.65	33.90	26.17	187.2	.2427	2.94	2.26
150	9.32	34.06	26.35	171.1	.333	1.98	2.55
200	8.93	34.10	26.45	163.1	.417	1.64	2.80
250	8.61	34.21	26.58	151.0	.496	1.28	2.97
300	8.11	34.26	26.70	140.7	.570	1.05	3.06
400	6.92	34.25	26.86	126.0	.704	.70	3.27

## STATION 105.35 (Interpolated Values at Standard Depths)

CREST: 30°39.5'N 116°32.5'W November 21, 1950 0414 GCT Wire angle: 30°  
 Sounding: 630 fms. Depth of observation: 868 m. Weather: clear  
 Sea: very rough Wind: 340°, force 5

0	14.70	33.33	24.77	318.5	.0000	5.63	.68
10	14.58	33.35	24.81	314.9	.0318	5.80	.69
20	14.55	33.33	24.80	316.0	.0635	5.40	.76
30	12.50	33.35	25.23	275.1	.0931	4.80	.95
50	11.24	33.50	25.59	242.1	.1451	4.05	1.48
75	10.92	33.63	25.74	227.7	.2042	3.31	1.88
100	10.65	33.78	25.91	212.4	.2595	2.85	2.09
150	9.75	33.96	26.20	185.4	.360	2.18	2.59
200	9.44	34.06	26.33	174.0	.450	1.55	2.78
250	9.21	34.38	26.62	147.7	.531	1.05	2.88
300	8.50	34.32	26.68	142.1	.604	.98	2.92
400	7.50	34.30	26.82	130.5	.742	.67	3.01
500	6.42	34.31	26.97	116.2	.866	.42	3.23
600	5.76	34.39	27.12	102.8	.976	.36	3.25
700	5.20	34.43	27.22	93.9	1.076	.39	3.33
800	4.68	34.46	27.31	86.2	1.167	.42	3.43
1000	(4.00)	(34.48)	(27.39)	(78.3)	(1.333)	-	-

## STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°48'N 116°00'W November 20, 1950 2024 GCT Wire angle: 20°  
 Sounding: 600 fms. Depth of observation: 854 m. Weather: partly cloudy  
 Sea: rough Wind: 290°, force 4

Depth	T	S	$\sigma_t$	$10^5 \delta$	$\Delta D$	O <sub>2</sub>	PO <sub>4</sub> -P
(m)	(°C)	(‰)	(mg/cm <sup>3</sup> )		(dyn.m.)	(ml/L)	( $\mu$ g at/L)
0	16.50	33.51	24.51	343.5	.0000	5.40	.55
10	16.42	33.53	24.54	340.6	.0343	5.58	.58
20	14.85	33.37	24.77	319.2	.0675	5.65	.59
30	13.81	33.37	24.99	298.6	.0985	5.67	.66
50	12.25	33.44	25.35	264.4	.1551	5.00	1.07
75	10.18	33.61	25.86	216.7	.2155	3.63	1.88
100	9.61	33.73	26.05	199.1	.2678	3.40	1.99
150	9.56	34.27	26.48	159.4	.358	2.07	2.49
200	9.66	34.36	26.53	155.4	.437	1.20	2.85
250	9.21	34.36	26.60	149.2	.514	.81	3.12
300	8.44	34.35	26.72	139.0	.587	.69	3.25
400	7.17	34.33	26.89	123.6	.719	.46	3.45
500	6.45	34.35	27.00	113.6	.839	.31	3.59
600	5.80	34.37	27.10	104.8	.949	.33	3.59
700	5.23	34.40	27.19	96.5	1.050	.34	3.58
800	4.76	34.41	27.26	90.9	1.145	.41	3.52
1000	(4.01)	(34.46)	(27.38)	(79.9)	(1.318)	-	-

## STATION 113.35 (Interpolated Values at Standard Depths)

CREST: 29°11.5'N 115°41.5'W November 20, 1950 1417 GCT Wire angle: 43°  
 Sounding: 850 fms. Depth of observation: 909 m. Weather; partly cloudy  
 Sea: very rough Wind: 300°, force 5

0	15.99	33.45	24.58	336.8	.0000	5.18	.71
10	15.97	33.45	24.58	336.6	.0338	5.53	.66
20	15.85	33.51	24.66	330.0	.0673	5.52	.66
30	15.05	33.46	24.80	317.0	.0997	5.75	.69
50	12.89	33.26	25.09	289.5	.1607	5.66	.80
75	10.85	33.55	25.69	232.3	.2263	4.25	1.79
100	9.51	33.93	26.22	182.8	.2785	2.78	2.27
150	9.25	34.13	26.42	164.9	.366	1.88	2.57
200	9.18	34.23	26.47	160.7	.448	1.37	2.76
250	9.18	34.31	26.57	152.4	.527	.97	2.95
300	8.40	34.32	26.70	140.6	.601	.69	3.09
400	7.25	34.29	26.85	127.6	.736	.64	3.19
500	6.48	34.33	26.98	115.5	.853	.45	3.29
600	5.83	34.38	27.11	104.5	.969	.28	3.38
700	5.19	34.41	27.21	95.2	1.070	.35	3.43
800	4.64	34.40	27.26	90.2	1.164	.39	-
1000	(4.00)	(34.37)	(27.31)	(86.5)	(1.342)	-	-



## STATION 117.35 (Interpolated Values at Standard Depths)

CREST: 28°38'N 115°16'W November 20, 1950 0818 GCT Wire angle: 20°  
 Sounding: 125 fms. Depth of observation: 105 m. Weather: partly cloudy  
 Sea: very rough Wind: 320°, force 6

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	(17.01)	(33.62)	24.47	346.8	.0000	(4.84)	(.54)
10	17.01	33.60	24.46	348.5	.0349	5.22	.54
20	17.00	33.54	24.42	353.0	.0701	5.54	.53
30	16.95	33.62	24.49	346.3	.1052	5.00	.51
50	11.39	33.55	25.60	241.0	.1643	4.46	1.46
75	11.19	33.70	25.75	227.0	.2231	3.40	1.81
100	11.62	34.04	25.93	210.1	.2781	1.76	2.26

## STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°04.5'N 114°55.5'W November 9, 1950 0538 GCT Wire angle: 3°  
 Sounding: 47 fms. Depth of observation: 69 m. Weather partly cloudy  
 Sea: slight Wind: calm

0	19.07	33.82	24.12	380.2	.0000	5.33	.42
10	19.00	33.73	24.07	385.4	.0384	5.29	.43
20	18.88	33.71	24.09	384.3	.0771	5.23	.38
30	17.97	33.66	24.27	366.7	.1148	5.31	.41
50	13.86	33.69	25.22	276.6	.1794	3.71	1.28

## STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°43'N 115°33'W November 11, 1950 1148 GCT Wire angle: 0°  
 Sounding: 1,260 fms. Depth of observation: 1,197 m. Weather: clear  
 Sea: moderate Wind: 360°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.65	33.73	23.91	400.9	.0000	4.52	.48
10	19.65	33.69	23.88	404.2	.0404	4.42	.63
20	19.63	33.71	23.90	402.6	.0809	4.26	.91
30	17.27	33.69	24.47	348.5	.1186	4.05	1.25
50	14.46	33.63	25.05	293.0	.1831	3.42	1.69
75	12.06	33.58	25.50	251.3	.2515	3.53	1.99
100	11.85	33.86	25.75	227.5	.3117	2.37	2.24
150	9.34	34.01	26.31	175.2	.413	2.17	2.59
200	8.86	34.13	26.48	159.8	.497	1.81	2.83
250	8.36	34.18	26.60	149.4	.575	1.34	2.94
300	8.03	34.25	26.70	140.2	.648	.86	3.04
400	7.78	34.43	26.88	124.9	.782	.90	3.15
500	6.67	34.38	27.00	114.4	.903	.23	3.30
600	5.93	34.41	27.12	103.6	1.013	.19	3.27
700	5.33	34.41	27.19	97.0	1.114	.22	3.31
800	4.79	34.42	27.26	90.5	1.209	.27	3.35
1000	4.06	34.49	27.40	78.3	1.379	.46	3.29

## STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°33.5'N 115°52'W November 11, 1950 1126 GCT Wire angle: 11°  
 Sounding: 2,040 fms. Depth of observation: 1,190 m. Weather: clear  
 Sea: moderate Wind: 360°, force 3

0	19.03	33.70	24.04	388.0	.0000	5.16	.57
10	19.22	33.72	24.01	391.5	.0391	5.12	.60
20	18.94	33.73	24.09	384.3	.0781	5.17	.55
30	17.87	33.71	24.34	360.8	.1155	5.27	.54
50	15.45	33.41	24.67	329.6	.1849	5.43	.67
75	13.05	33.70	25.40	260.8	.2591	3.90	1.47
100	10.95	33.76	25.84	219.0	.3194	3.20	1.91
150	9.47	33.96	26.25	180.9	.420	2.86	2.12
200	8.88	34.14	26.48	159.4	.506	2.64	2.59
250	8.48	34.25	26.63	146.1	.583	1.87	2.86
300	8.14	34.32	26.74	136.7	.654	.75	3.00
400	7.58	34.40	26.89	124.2	.735	.40	3.14
500	6.72	34.40	27.01	113.6	.905	.28	3.21
600	5.82	34.39	27.12	103.6	1.015	.30	3.36
700	5.24	34.43	27.22	94.4	1.115	.32	3.39
800	4.82	34.43	27.27	90.2	1.208	.33	3.40
1000	4.08	34.44	27.35	82.3	1.382	.54	3.39

## STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°14'N 116°34.5'W November 11, 1950 2054, missing GCT Wire  
 angles: 19°, 30° Sounding: 2,050 fms. Depth of observation: 267, 1,076 m.  
 Weather: clear Sea: moderate Wind: 360°, force 3

Depth (m)	T (°C)	S (%)	$\sigma^t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	19.54	33.53	23.78	412.7	.0000	5.13	.48
10	19.39	33.49	23.79	412.3	.0414	5.19	.52
20	19.35	33.53	23.83	408.8	.0826	5.01	.65
30	19.32	33.52	23.83	409.1	.1237	5.08	.64
50	15.25	33.31	24.64	332.7	.1982	5.75	.65
75	12.65	33.38	25.23	276.8	.2749	5.20	.78
100	11.50	33.49	25.53	248.5	.3409	4.12	1.26
150	9.82	33.82	26.08	196.8	.453	2.90	2.06
200	9.38	34.15	26.41	166.4	.544	2.10	2.45
250	9.05	34.29	26.57	151.9	.625	1.56	2.63
300	8.60	34.32	26.67	143.6	.699	1.11	2.77
400	7.37	34.34	26.87	125.7	.835	.52	2.95
500	6.50	34.34	26.99	115.0	.956	.29	3.05
600	5.87	34.37	27.09	105.7	1.068	.31	3.14
700	5.32	34.41	27.19	96.9	1.170	.35	3.20
800	4.81	34.43	27.27	90.0	1.264	.37	3.21
1000	4.04	34.47	27.38	79.6	1.436	.52	3.23

## STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°51'N 117°14.5'W November 12, 1950 0227, 0246 GCT Wire  
 angles: 7°, 10° Sounding: 2,030 fms. Depth of observation: 397, 1,195 m.  
 Weather: clear Sea: moderate Wind: 020°, force 3

0	20.33	33.61	23.64	426.6	.0000	4.31	.51
10	20.32	33.60	23.63	427.4	.0429	4.11	.52
20	20.33	33.61	23.64	427.3	.0858	4.14	.53
30	20.33	33.62	23.64	426.9	.1287	4.18	.53
50	18.20	33.51	24.10	383.7	.2101	4.33	.47
75	16.20	33.54	24.60	336.9	.3007	4.78	.49
100	14.17	33.67	25.14	285.6	.3790	4.60	.57
150	11.43	33.86	25.83	221.1	.507	3.05	1.55
200	10.72	34.36	26.35	173.1	.606	1.29	2.58
250	10.11	34.48	26.55	155.0	.688	.86	2.81
300	9.42	34.51	26.69	142.5	.763	.57	2.92
400	8.17	34.41	26.81	132.2	.902	.55	3.02
500	6.53	34.33	26.98	116.2	1.027	.62	3.09
600	5.83	34.45	27.16	99.3	1.136	.25	3.28
700	5.24	34.45	27.23	92.9	1.233	.35	3.32
800	4.77	34.45	27.29	88.1	1.324	.45	3.30
1000	4.11	34.53	27.42	76.0	1.490	.52	3.31

## STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°30'N 117°56.5'W November 12, 1950 0758 GCT Wire angle: 2°  
 Sounding: 1,950 fms. Depth of observation: 1,200 m. Weather: clear  
 Sea: missing Wind: 020°, force 2

Depth	T	S	$\sigma^t$	$10^5 \delta$	$\Delta D$	O <sub>2</sub>	PO <sub>4</sub> -P
(m)	(°C)	(‰)	(mg/cm <sup>3</sup> )		(dyn.m.)	(ml/L)	( $\mu\text{g at/L}$ )
0	20.38	33.80	23.77	414.1	.0000	4.67	.47
10	20.41	33.82	23.78	413.7	.0416	5.11	.48
20	20.44	33.84	23.78	413.4	.0831	4.50	.49
30	20.44	33.84	23.78	413.7	.1246	4.35	.50
50	18.05	33.68	24.27	367.8	.2031	5.29	.53
75	15.30	33.57	24.82	315.5	.2890	5.22	.55
100	13.22	33.69	25.35	265.5	.3621	5.45	.74
150	10.66	33.90	26.00	204.9	.480	3.25	1.96
200	10.79	34.43	26.39	169.2	.575	1.11	2.55
250	10.51	34.57	26.55	155.2	.656	.69	2.81
300	10.15	34.61	26.64	147.2	.733	.60	2.94
400	8.47	34.40	26.75	137.6	.876	.71	3.03
500	7.75	34.54	26.97	118.1	1.005	.36	3.16
600	6.67	34.56	27.14	102.6	1.116	.20	3.16
700	5.85	34.56	27.25	92.7	1.215	.25	3.17
800	5.16	34.56	27.33	84.9	1.305	.31	3.20
1000	4.24	34.56	27.43	75.4	1.467	.43	3.19

## STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°09'N 118°37.5'W November 12, 1950 1339 GCT Wire angle: 11°  
 Sounding: 2,230 fms. Depth of observation: 1,190 m. Weather: clear  
 Sea: moderate Wind: 360°, force 2

0	20.30	33.77	23.77	414.2	.0000	4.95	.54
10	20.30	33.84	23.82	409.5	.0414	5.08	.49
20	20.33	33.82	23.80	412.0	.0826	4.92	.48
30	20.30	33.77	23.77	415.3	.1241	5.00	.49
50	16.75	33.66	24.57	339.6	.2000	5.85	.51
75	13.90	33.61	25.15	284.0	.2784	5.35	.61
100	12.55	33.75	25.53	248.4	.3453	4.70	1.15
150	10.67	34.12	26.17	188.8	.455	2.25	2.42
200	11.05	34.50	26.40	168.5	.545	.57	2.79
250	10.80	34.58	26.50	159.4	.628	.36	3.05
300	10.42	34.61	26.59	151.8	.706	.32	3.19
400	9.15	34.61	26.81	132.8	.850	.33	3.24
500	7.78	34.57	26.99	116.3	.975	.30	3.25
600	6.54	34.54	27.14	102.2	1.086	.32	3.35
700	5.85	34.55	27.24	93.5	1.184	.32	3.41
800	5.26	34.58	27.33	84.7	1.274	.34	3.43
1000	4.37	34.63	27.47	71.8	1.433	.45	3.43

## STATION 120.100 (Interpolated Values at Standard Depths)

CREST: 25°56'N 119°08'W November 12, 1950 1747 GCT Wire angle: 13°  
 Sounding: 2,200 fms. Depth of observation: 1,173 m. Weather: partly cloudy  
 Sea: moderate Wind: 020°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma^t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	20.36	33.80	23.77	413.6	.0000	4.70	.47
10	20.32	33.77	23.76	415.1	.0416	4.89	.50
20	20.34	33.77	23.76	415.9	.0833	4.89	.48
30	20.34	33.77	23.76	416.3	.1251	5.02	.47
50	16.99	33.66	24.51	344.9	.2016	5.60	.47
75	14.80	33.64	24.99	299.9	.2827	5.60	.57
100	13.57	33.70	25.29	271.5	.3545	5.18	.77
150	10.93	33.97	26.01	204.3	.474	3.08	1.91
200	10.95	34.34	26.29	178.6	.571	1.12	2.65
250	10.11	34.42	26.50	159.5	.656	.70	2.85
300	9.35	34.46	26.66	145.1	.733	.51	2.96
400	8.16	34.46	26.85	128.4	.870	.35	3.11
500	6.69	34.37	26.99	115.4	.993	.40	3.11
600	5.93	34.46	27.16	99.9	1.102	.28	3.21
700	5.39	34.51	27.26	90.4	1.198	.30	3.25
800	4.96	34.54	27.34	83.8	1.286	.32	3.32
1000	4.09	34.47	27.38	80.2	1.452	.58	3.46

## STATION 120.110 (Interpolated Values at Standard Depths)

CREST: 25°33'W 119°44'W November 12, 1950 2300 GCT Wire angle: 11°  
 Sounding: 2,280 fms. Depth of observation: 1,179 m. Weather: cloudy  
 Sea: moderate Wind: 020°, force 3

0	20.57	33.80	23.72	418.9	.0000	5.40	.56
10	20.46	33.71	23.68	423.0	.0423	5.20	.55
20	20.49	33.74	23.69	421.9	.0847	4.89	.53
30	20.50	33.80	23.74	418.1	.1268	4.87	.51
50	18.40	33.86	24.32	362.9	.2053	5.02	.49
75	16.55	33.82	24.73	324.2	.2917	4.19	.54
100	14.66	33.87	25.19	280.9	.3678	4.41	.66
150	11.00	33.82	25.88	216.6	.493	3.40	1.29
200	9.94	34.08	26.26	180.6	.593	2.56	2.41
250	9.19	34.24	26.51	157.8	.678	1.81	2.84
300	8.57	34.35	26.70	140.9	.754	1.23	3.00
400	7.64	34.41	26.88	124.4	.887	.58	3.28
500	6.68	34.34	26.96	117.5	1.009	.23	3.44
600	5.91	34.44	27.14	101.1	1.120	.22	3.43
700	5.36	34.57	27.31	85.5	1.214	.27	3.49
800	4.87	34.61	27.40	77.5	1.296	.35	3.57
1000	4.22	34.60	27.47	72.2	1.447	.47	3.57

## STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°19.5'N 114°53.5'W November 11, 1950 0628 GCT Wire  
 angle : 23° Sounding: 230 fms. Depth of observation: 326 m.  
 Weather: clear Sea: moderate Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma^t$ (ng/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.79	33.69	23.84	407.3	.0000	4.82	.47
10	19.79	33.69	23.84	407.6	.0409	4.62	.49
20	19.80	33.72	23.86	406.0	.0818	4.66	.47
30	19.80	33.73	23.87	405.7	.1225	4.74	.47
50	19.76	33.61	23.79	414.0	.2049	4.88	.55
75	12.64	33.53	25.35	265.6	.2903	4.89	.83
100	11.77	33.57	25.54	247.4	.3548	3.98	1.58
150	10.62	34.13	26.19	187.2	.464	1.75	2.32
200	10.44	34.41	26.44	164.7	.553	.89	2.70
250	9.74	34.41	26.56	154.1	.633	.78	2.80
300	9.09	34.40	26.65	145.3	.709	.66	2.83

## STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 26°59.5'N 115°30'W November 11, 1950 0052 GCT Wire angle: 13°  
 Sounding: 1,800 fms. Depth of observation: 1,251 m. Weather: haze  
 Sea: moderate Wind: 360°, force 3

0	19.96	(33.88)	(23.94)	(397.7)	(.0000)	4.81	.60
10	19.96	33.87	23.93	398.8	.0400	4.61	.62
20	19.86	33.80	23.90	401.7	.0802	4.59	.63
30	19.68	33.73	23.90	402.7	.1206	4.59	.62
50	15.25	33.55	24.82	315.2	.1927	4.42	.94
75	11.86	33.68	25.61	240.3	.2625	3.75	1.46
100	10.65	33.76	25.89	213.9	.3197	3.17	1.83
150	9.25	34.43	26.65	142.7	.409	.95	2.93
200	8.96	34.51	26.76	133.2	.479	.61	3.04
250	8.78	34.54	26.81	129.2	.545	.47	3.12
300	8.61	34.57	26.86	125.3	.609	.40	3.18
400	8.10	34.59	26.96	117.9	.732	.31	3.24
500	6.73	34.55	27.12	102.7	.843	.25	3.24
600	5.78	34.47	27.18	97.2	.944	.22	3.21
700	5.36	34.56	27.31	86.2	1.036	.23	3.22
800	4.99	34.63	27.40	77.5	1.119	.31	3.23
1000	4.07	34.65	27.52	66.6	1.265	.57	3.21

## STATION 123.60 (Interpolated Values at Standard Depths)

CREST: 26°37'N 116°09'W November 10, 1950 1910 GCT Wire angle: 15°  
 Sounding: 2,050 fms. Depth of observation: 1,157 m. Weather: partly cloudy  
 Sea: moderate Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	20.00	33.75	23.83	403.2	.0000	4.83	.41
10	19.92	33.78	23.87	404.3	.0408	4.62	.42
20	19.92	33.87	23.94	398.1	.0811	4.64	.44
30	19.91	33.85	23.93	399.7	.1211	4.73	.46
50	14.60	33.62	25.02	296.6	.1911	5.00	.47
75	12.46	33.69	25.50	250.5	.2599	3.66	.77
100	11.90	33.70	25.62	240.1	.3216	3.50	1.02
150	9.55	34.02	26.28	177.7	.427	2.55	1.56
200	9.42	34.18	26.43	164.9	.513	1.57	1.94
250	9.19	34.28	26.54	154.8	.594	.75	2.26
300	8.60	34.34	26.68	142.1	.668	.56	2.59
400	7.29	34.36	26.90	123.0	.802	.58	2.90
500	6.53	34.37	27.01	113.2	.921	.39	3.04
600	5.65	34.45	27.18	96.9	1.027	.30	3.30
700	5.08	34.46	27.26	90.1	1.122	.33	3.30
800	4.62	(34.48)	(27.33)	(84.1)	(1.210)	(.39)	(3.30)
1000	3.84	(34.60)	(27.50)	(68.0)	(1.363)	(.60)	(3.34)

## STATION 123.70 (Interpolated Values at Standard Depths)

CREST: 26°18.5'N 116°47'W November 10, 1950 1344 GCT Wire angle: 15°  
 Sounding: 2,080 fms. Depth of observation: 1,107 m. Weather: cloudy  
 Sea: moderate Wind: 340°, force 3

0	19.66	33.71	23.89	402.6	.0000	4.55	.33
10	19.69	33.73	23.90	402.3	.0404	4.96	.28
20	19.69	33.75	23.91	401.1	.0807	4.92	.28
30	19.60	33.75	23.93	399.3	.1209	5.01	.31
50	16.45	33.57	24.57	339.5	.1952	5.56	.44
75	14.95	33.44	24.80	317.7	.2778	6.20	.54
100	12.57	33.51	25.34	266.4	.3512	5.10	.78
150	10.42	33.97	26.10	195.6	.468	4.00	1.71
200	9.51	34.77	26.41	167.0	.559	2.04	2.32
250	8.94	34.27	26.58	151.6	.639	1.25	2.60
300	8.28	34.39	26.77	133.6	.711	.99	2.77
400	7.24	34.52	27.03	110.5	.834	.63	3.05
500	6.65	34.45	27.05	103.9	.945	.33	3.19
600	5.72	34.44	27.17	98.6	1.049	.30	3.20
700	5.12	34.52	27.30	86.2	1.143	.30	3.20
800	4.64	34.59	27.41	76.1	1.225	.31	3.20
1000	3.95	34.68	27.56	63.0	1.365	.47	3.11

## STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°40'N 114°27'W November 9, 1950 1538 GCT Wire angle: 10°  
 Sounding: 1,590 fms Depth of observation: 1,210 m Weather: cloudy  
 Sea: moderate Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn m)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	20.01	33.73	23.81	409.9	.0000	4.95	.34
10	20.00	33.73	23.81	410.0	.0412	5.05	.40
20	19.68	33.78	23.94	398.7	.0817	5.09	.43
30	18.50	33.80	24.25	369.0	.1203	5.08	.43
50	14.65	33.48	24.90	307.9	.1883	4.68	.42
75	13.47	33.80	25.39	261.6	.2599	3.80	.84
100	11.74	33.80	25.73	229.9	.3217	3.31	1.50
150	11.49	34.40	26.24	182.5	.426	2.67	2.50
200	10.50	34.40	26.42	166.4	.513	2.15	2.72
250	9.75	34.42	26.56	153.5	.594	1.64	2.84
300	9.17	34.43	26.66	144.4	.669	1.18	2.93
400	8.19	34.44	26.83	130.3	.807	.89	3.00
500	6.88	34.51	27.07	107.7	.927	.44	3.16
600	6.04	34.57	27.23	93.2	1.029	.35	3.15
700	5.42	34.51	27.26	90.8	1.122	.38	3.20
800	4.86	34.46	27.29	88.5	1.212	.43	3.31
1000	4.22	34.63	27.49	70.0	1.372	.55	3.37

## STATION 127.50 (Interpolated Values at Standard Depths)

CREST: 26°21'N 115°07'W November 9, 1950 2112 GCT Wire angle: 9°  
 Sounding: 1,860 fms. Depth of observation: 1,177 m. Weather: cloudy  
 Sea: moderate Wind: 320°, force 4

0	20.05	33.57	23.68	422.5	.0000	5.19	.41
10	19.86	33.58	23.74	417.3	.0422	4.70	.35
20	19.85	33.66	23.80	411.6	.0838	4.83	.34
30	19.84	33.65	23.80	412.4	.1251	5.23	.34
50	16.00	33.36	24.51	345.0	.2013	5.64	.35
75	13.92	33.28	24.90	308.5	.2834	5.59	.40
100	12.31	33.49	25.38	263.0	.3553	5.20	.78
150	10.11	33.86	26.06	198.6	.4715	3.84	1.45
200	9.62	34.20	26.41	166.6	.563	2.09	1.93
250	9.06	34.31	26.59	150.5	.643	1.35	2.29
300	8.39	34.31	26.69	141.2	.717	.94	2.57
400	7.37	34.39	26.91	122.0	.849	.62	2.83
500	6.81	34.50	27.07	107.5	.965	.22	2.98
600	5.79	34.54	27.24	92.1	1.066	.24	3.06
700	5.24	34.56	27.32	84.7	1.155	.28	3.12
800	4.77	34.56	27.37	79.9	1.238	.38	3.16
1000	4.04	34.65	27.53	66.3	1.386	.56	(3.26)



## STATION 127.60 (Interpolated Values at Standard Depths)

CREST: 26°03.5'N 115°46.5'W November 10, 1950 0248 GCT Wire angle: 20°  
 Sounding: 2,060 fms. Depth of observation: 1,134 m. Weather: clear  
 Sea: moderate Wind: 040°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^3\delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	19.69	33.71	23.88	403.4	.0000	4.62	.42
10	19.71	33.71	23.88	404.2	.0405	4.52	.38
20	19.69	33.59	23.79	412.8	.0816	4.86	.36
30	19.55	33.54	23.79	413.3	.1230	5.34	.34
50	17.35	33.44	24.26	369.1	.2016	5.68	.37
75	13.92	33.22	24.85	312.9	.2874	5.68	.46
100	12.20	33.31	25.26	274.3	.3612	5.20	.72
150	9.95	33.83	26.07	198.2	.480	3.32	1.76
200	9.56	34.13	26.37	170.8	.573	2.02	2.31
250	9.14	34.35	26.61	148.9	.654	1.24	2.66
300	8.61	34.41	26.74	137.1	.726	.84	2.79
400	7.34	34.37	26.90	123.0	.857	.66	2.89
500	6.49	34.47	27.09	105.3	1.074	.34	3.08
600	5.83	34.48	27.18	97.1	1.074	.31	3.24
700	5.23	34.51	27.28	88.3	1.167	.32	3.32
800	4.74	34.57	27.39	78.8	1.252	.36	3.39
1000	4.06	34.62	27.50	68.7	1.401	.51	3.48

## STATION 127.70 (Interpolated Values at Standard Depths)

CREST: 25°44'N 116°25'W November 10, 1950 0819 GCT Wire angle: 6°  
 Sounding: 2,120 fms. Depth of observation: 1,188 m. Weather: overcast  
 Sea: moderate Wind: 320°, force 2

0	19.91	33.73	23.84	407.4	.0000	3.97	.33
10	19.91	33.78	23.88	404.1	.0407	3.72	.33
20	19.92	33.74	23.84	407.6	.0815	3.80	.37
30	19.86	33.64	23.78	413.7	.1227	4.00	.39
50	16.12	33.46	24.56	340.3	.1985	4.47	.39
75	14.84	33.40	24.79	318.3	.2813	5.50	.59
100	12.19	33.52	25.42	258.6	.3538	4.48	.74
150	11.28	34.03	25.99	206.0	.471	1.78	2.02
200	10.23	34.31	26.39	168.5	.565	.83	2.40
250	9.69	34.49	26.63	147.4	.645	.59	2.58
300	9.32	34.53	26.72	139.4	.717	.40	2.72
400	8.22	34.40	26.79	133.7	.855	.21	2.82
500	6.41	34.33	26.99	114.6	.980	.24	2.92
600	5.89	34.43	27.14	101.6	1.089	.28	2.96
700	5.39	34.50	27.25	91.1	1.186	.28	2.96
800	4.84	34.50	27.32	85.3	1.275	.30	3.00
1000	4.05	34.46	27.37	80.4	1.443	.43	3.19

## STATION 130.35 (Interpolated Values at Standard Depths)

CREST: 26°19.5'N 113°49'W November 15, 1950 0712 GCT Wire angle: 5°  
 Sounding: 450 fms. Depth of observation: 418 m. Weather: clear  
 Sea: moderate Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	21.10	34.27	23.93	398.4	.0000	4.43	.80
10	21.10	34.27	23.93	398.8	.0400	4.71	.78
20	20.55	34.19	24.02	390.8	.0797	4.28	.84
30	18.25	34.03	24.49	346.4	.1167	3.85	1.01
50	14.44	33.93	25.29	270.7	.1787	3.20	1.73
75	12.70	34.02	25.71	230.7	.2417	2.22	2.21
100	12.18	34.23	25.98	206.3	.2967	1.40	2.62
150	11.70	34.44	26.23	183.3	.395	.78	2.91
200	10.86	34.56	26.48	160.8	.481	.67	2.92
250	9.89	34.54	26.63	147.0	.559	.55	2.94
300	9.41	34.50	26.68	143.1	.632	.53	2.95
400	7.53	34.46	26.94	119.1	.764	.41	3.13

## STATION 130.40 (Interpolated Values at Standard Depths)

CREST: 26°05'N 114°09'W November 15, 1950 0135 GCT Wire angle: 10°  
 Sounding: 1,080 fms. Depth of observation: 869 m. Weather: partly cloudy  
 Sea: slight Wind: 290°, force 2

0	21.20	(34.26)	(23.90)	(401.7)	(.0000)	4.96	.82
10	20.95	34.25	23.96	396.4	.0401	5.03	.74
20	20.47	34.15	24.01	391.7	.0796	4.99	.75
30	18.45	34.07	24.47	348.2	.1168	4.87	.85
50	13.48	33.95	25.50	250.1	.1769	4.43	1.27
75	12.65	33.90	25.63	238.6	.2383	2.72	2.02
100	11.85	34.21	26.02	201.7	.2937	1.70	2.53
150	11.09	34.40	26.31	175.5	.389	.87	2.76
200	10.66	34.53	26.49	159.6	.473	.59	2.90
250	9.77	34.58	26.68	142.0	.549	.48	2.97
300	8.53	34.53	26.84	127.0	.617	.48	3.02
400	7.85	34.45	26.88	124.5	.744	.35	3.17
500	6.82	34.45	27.03	111.3	.862	.28	3.31
600	5.98	34.44	27.13	102.0	.970	.24	3.37
700	5.38	34.42	27.19	96.9	1.070	.31	3.37
800	4.90	34.45	27.27	89.7	1.165	.35	3.38
1000	(4.09)	(34.53)	(27.42)	(75.7)	(1.332)	-	-

## STATION 130.50 (Interpolated Values at Standard Depths)

CREST: 25°52'N 114°45'W November 14, 1950 1958 GCT Wire angle: 10°  
 Sounding: 1,900 fms. Depth of observation: 1,169 m. Weather: partly cloudy  
 Sea: slight Wind: calm

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	20.14	33.55	23.64	426.2	.0000	4.93	.41
10	19.90	33.62	23.76	415.4	.0422	5.14	.47
20	19.53	33.61	23.85	407.4	.0836	4.90	.47
30	19.53	33.56	23.81	411.3	.1246	4.93	.47
50	15.52	33.33	24.59	336.9	.1998	5.40	.58
75	14.56	33.60	25.01	298.0	.2797	5.30	.58
100	12.30	33.54	25.42	259.2	.3497	4.97	1.16
150	11.83	34.19	26.01	204.1	.466	1.52	2.53
200	10.47	34.43	26.45	163.7	.559	1.15	2.69
250	9.82	34.51	26.62	148.0	.637	.82	2.86
300	9.35	34.54	26.72	139.2	.710	.43	3.02
400	7.79	34.57	26.99	114.8	.838	.35	3.27
500	6.98	34.56	27.10	105.4	.949	.25	3.29
600	6.03	34.44	27.13	102.7	1.054	.15	3.32
700	5.51	34.52	27.26	91.2	1.152	.21	3.33
800	5.05	34.54	27.33	84.9	1.241	.28	3.33
1000	4.17	34.53	27.42	76.7	1.404	.46	3.34

## STATION 130.60 (Interpolated Values at Standard Depths)

CREST: 25°35'N 115°16'W November 14, 1950 1534 GCT Wire angle: 7°  
 Sounding: 2,080 fms. Depth of observation: 1,187 m. Weather: cloudy  
 Sea: slight Wind: calm

0	20.71	(33.88)	(23.74)	(416.7)	(.0000)	4.87	.53
10	20.70	33.86	23.73	418.2	.0419	4.63	.49
20	20.60	33.80	23.71	420.3	.0840	4.65	.49
30	19.85	33.72	23.85	407.6	.1256	4.99	.59
50	16.80	33.66	24.55	340.7	.2008	5.47	.51
75	14.85	33.64	24.98	301.0	.2814	5.35	.58
100	12.72	33.74	25.49	252.3	.3510	4.23	1.26
150	10.78	33.99	26.05	200.3	.465	2.90	2.15
200	10.43	34.40	26.43	165.2	.557	1.34	2.68
250	9.86	34.46	26.57	152.4	.637	.92	2.90
300	9.09	34.49	26.72	138.7	.710	.71	3.06
400	8.14	34.56	26.93	120.7	.841	.28	3.28
500	6.94	34.56	27.10	104.9	.955	.25	3.32
600	6.19	34.49	27.15	101.1	1.059	.15	3.47
700	5.56	34.51	27.24	92.6	1.156	.27	3.47
800	4.86	34.57	27.37	80.3	1.244	.37	3.47
1000	4.12	34.67	27.53	65.8	1.392	.47	3.49

## STATION 130.70 (Interpolated Values at Standard Depths)

CREST: 25°13.5'N 115°55.5'W November 14, 1950 1004 GCT Wire angle: 5°  
 Sounding: 2,200 fms. Depth of observation: 1,193 m. Weather: clear  
 Sea: slight Wind: 220°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	20.96	33.89	23.68	422.3	.0000	4.71	.50
10	20.96	33.80	23.61	429.2	.0427	4.68	.53
20	20.99	33.81	23.61	429.6	.0859	4.68	.49
30	20.95	33.83	23.64	427.5	.1289	4.74	.43
50	17.50	33.91	24.58	338.3	.2058	5.25	.41
75	15.67	33.94	25.03	296.3	.2856	4.79	.52
100	13.08	33.94	25.58	244.5	.3536	4.51	.97
150	10.64	33.98	26.07	198.6	.465	2.83	2.02
200	10.18	34.30	26.39	168.4	.558	1.48	2.51
250	9.70	34.44	26.59	151.2	.638	.78	2.80
300	9.09	34.49	26.72	138.7	.711	.48	2.98
400	7.87	34.49	26.91	121.9	.842	.29	3.19
500	6.82	34.56	27.12	103.2	.956	.20	3.21
600	6.20	34.51	27.16	99.8	1.058	.25	3.34
700	5.61	34.52	27.24	92.5	1.155	.26	3.35
800	4.98	34.52	27.32	85.5	1.245	.28	3.38
1000	4.18	34.63	27.49	69.5	1.402	.43	3.44

## STATION 130.80 (Interpolated Values at Standard Depths)

CREST: 24°52'N 116°36'W November 14, 1950 0416 GCT Wire angle: 0°  
 Sounding: 2,100 fms. Depth of observation: 1,194 m. Weather: cloudy  
 Sea: slight Wind: calm

0	21.58	33.96	23.57	433.4	.0000	4.86	.48
10	21.58	34.00	23.60	430.8	.0434	4.98	.51
20	21.61	34.00	23.59	432.0	.0867	5.00	.50
30	21.60	33.96	23.56	435.0	.1302	5.02	.49
50	17.64	33.62	24.32	362.6	.2104	5.26	.53
75	16.22	33.68	24.70	327.2	.2971	5.65	.60
100	14.30	33.68	25.12	287.5	.3744	5.09	.63
150	10.77	33.82	25.92	212.6	.500	3.25	1.27
200	10.29	34.18	26.28	179.1	.599	2.00	2.61
250	9.74	34.34	26.50	159.2	.684	1.23	2.86
300	9.17	34.44	26.67	143.7	.760	.68	2.99
400	8.10	34.51	26.89	123.8	.895	.56	3.11
500	7.10	34.40	26.95	118.9	1.018	.37	3.24
600	6.29	34.43	27.09	106.9	1.132	.25	3.35
700	5.64	34.50	27.22	94.4	1.233	.27	3.37
800	5.05	34.52	27.31	86.4	1.325	.34	3.38
1000	4.27	34.52	27.40	78.7	1.491	.43	3.35

## STATION 130.90 (Interpolated Values at Standard Depths)

CREST: 24°31'N 117°16'W November 13, 1950 2203 GCT Wire angle: 0°  
 Sounding: 2,050 fms. Depth of observation: 1,201 m. Weather: cloudy  
 Sea: slight Wind: calm

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	21.32	33.78	23.50	439.6	.0000	5.19	.58
10	21.25	33.80	23.53	436.7	.0440	4.77	.57
20	21.25	33.79	23.53	437.8	.0879	4.95	.53
30	21.27	33.78	23.51	439.4	.1319	5.22	.53
50	18.29	33.58	24.13	380.7	.2143	5.53	.58
75	16.54	33.69	24.64	333.5	.3041	5.36	.52
100	14.40	33.62	25.06	293.9	.3830	5.07	.82
150	11.35	33.88	25.86	218.3	.512	3.39	1.83
200	10.10	34.14	26.28	178.8	.612	2.17	2.29
250	9.65	34.32	26.50	159.2	.697	1.26	2.76
300	9.35	34.42	26.63	148.0	.774	.61	3.22
400	8.18	34.49	26.87	126.5	.913	.36	3.28
500	6.94	34.51	27.06	108.6	1.031	.25	3.45
600	6.05	34.52	27.19	97.0	1.135	.25	3.49
700	5.40	34.48	27.24	92.7	1.231	.29	3.51
800	4.87	34.45	27.28	89.3	1.323	.36	3.52
1000	4.13	34.56	27.44	74.0	1.488	.44	3.54

## STATION 130.100 (Interpolated Values at Standard Depths)

CREST: 24°18.5'N 117°56'W November 13, 1950 1648 GCT Wire angle: 4°  
 Sounding: 2,170 fms. Depth of observation: 1,191 m. Weather: cloudy  
 Sea: moderate Wind: calm

0	21.14	33.73	23.51	438.6	.0000	4.94	(.70)
10	21.15	33.77	23.54	436.3	.0439	4.94	.61
20	21.17	33.76	23.53	437.9	.0878	4.90	.55
30	21.11	33.73	23.52	438.8	.1318	4.91	.51
50	17.55	33.68	24.39	356.2	.2117	5.48	.47
75	16.32	33.64	24.65	332.3	.2983	5.45	.46
100	14.50	33.62	25.04	295.9	.3773	5.31	.51
150	11.90	33.68	25.60	242.8	.513	4.28	.56
200	10.78	34.24	26.24	183.0	.620	1.75	2.63
250	9.92	34.41	26.52	157.0	.706	1.07	2.91
300	9.10	34.47	26.71	140.3	.781	.71	3.07
400	8.00	34.47	26.88	125.3	.914	.31	3.29
500	6.85	34.43	27.01	113.2	1.035	.25	3.31
600	6.03	34.45	27.14	101.9	1.143	.25	3.41
700	5.39	34.46	27.22	94.1	1.242	.27	3.48
800	4.84	34.47	27.30	87.5	1.334	.32	3.51
1000	4.02	34.58	27.47	71.2	1.494	.58	3.51

## STATION 130.110 (Interpolated Values at Standard Depths)

CREST: 23°57'N 118°33'W November 13, 1950 1110 GCT Wire angle: 0°  
 Sounding: 2,280 fms. Depth of observation: 1,199 m. Weather: clear  
 Sea: slight Wind: calm

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	21.98	34.03	23.51	438.9	.0000	4.93	.50
10	22.00	34.09	23.55	435.4	.0439	4.92	.53
20	21.97	34.07	23.54	436.4	.0877	4.90	.60
30	21.85	34.01	23.53	438.0	.1316	4.93	.61
50	19.01	33.98	24.26	368.8	.2126	5.40	.58
75	16.47	33.68	24.65	332.7	.3008	5.60	.57
100	14.50	33.73	25.12	287.9	.3789	5.49	.69
150	11.11	33.86	25.89	215.5	.506	3.34	2.00
200	10.37	34.27	26.34	173.8	.604	1.56	2.64
250	9.69	34.42	26.57	152.5	.686	1.08	2.95
300	8.97	34.48	26.74	137.6	.759	.76	3.10
400	8.08	34.51	26.90	123.5	.890	.25	3.25
500	6.88	34.47	27.04	110.7	1.009	.23	3.45
600	6.06	34.54	27.20	95.7	1.113	.25	3.52
700	5.40	34.51	27.26	90.5	1.207	.29	3.52
800	4.83	34.50	27.32	85.1	1.295	.37	3.52
1000	4.08	34.62	27.50	69.0	1.451	.53	3.51

## STATION 133.30 (Interpolated Values at Standard Depths)

CREST: 25°56.5'N 113°11'W November 15, 1950 1128 GCT Wire angle: 4°  
 Sounding: 108 fms. Depth of observation: 154 m. Weather: clear  
 Sea: slight Wind: 320°, force 2

0	21.17	34.13	23.81	410.4	.0000	4.85	.58
10	21.17	34.10	23.78	412.9	.0413	4.63	.61
20	20.85	34.00	23.79	412.2	.0828	4.75	.61
30	19.30	33.88	24.11	382.5	.1226	5.02	.64
50	14.30	33.66	25.11	287.6	.1900	5.22	.90
75	12.51	33.81	25.59	242.6	.2566	3.61	1.58
100	12.22	34.21	25.95	208.5	.3134	1.95	2.22
150	12.53	34.64	26.23	184.0	.412	.45	2.85

## STATION 133.40 (Interpolated Values at Standard Depths)

CREST: 25°36.5'N 113°49'W November 15, 1950 1623 GCT Wire angle: 6°  
 Sounding: 1,690 fms. Depth of observation: 1,189 m. Weather: partly cloudy  
 Sea: moderate Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	21.10	34.16	23.85	406.4	.0000	4.39	.76
10	21.09	34.23	23.90	401.4	.0406	4.75	.83
20	19.65	34.09	24.18	375.5	.0796	5.55	.74
30	15.40	33.54	24.78	318.5	.1144	5.55	.77
50	13.10	33.64	25.34	265.6	.1731	4.85	1.11
75	11.45	33.79	25.77	224.9	.2347	3.45	1.84
100	12.67	34.62	26.18	186.8	.2865	.52	3.14
150	12.62	34.76	26.30	176.9	.378	.25	3.21
200	11.89	34.77	26.45	163.8	.464	.25	3.33
250	11.23	34.75	26.56	154.5	.544	.22	3.35
300	10.52	34.72	26.66	145.4	.620	.16	3.35
400	8.74	34.57	26.84	129.2	.758	.24	3.41
500	7.20	34.47	26.99	115.2	.881	.28	3.45
600	6.19	34.45	27.12	104.1	.992	.20	3.59
700	5.47	34.46	27.21	95.1	1.092	.24	3.63
800	4.88	34.47	27.29	88.0	1.185	.33	3.63
1000	4.08	34.48	27.39	79.3	1.354	.52	3.66

## STATION 133.50 (Interpolated Values at Standard Depths)

CREST: 25°15'N 114°30.5'W November 15, 1950 2200 GCT Wire angle: 29°  
 Sounding: 2,100 fms. Depth of observation: 1,016 m. Weather: cloudy  
 Sea: moderate Wind: 330°, force 4

0	20.50	34.05	23.93	399.0	.0000	4.50	.61
10	20.29	34.04	23.97	394.8	.0398	4.50	.62
20	20.11	34.00	23.99	393.5	.0794	4.50	.58
30	18.60	33.84	24.26	368.5	.1177	4.60	.55
50	15.55	33.33	24.59	337.6	.1886	5.05	.55
75	13.85	33.55	25.12	287.4	.2672	3.92	1.07
100	12.85	34.12	25.76	226.9	.3319	2.20	1.93
150	11.50	34.40	26.24	182.7	.435	1.01	2.60
200	10.87	34.60	26.51	158.1	.521	.54	2.81
250	10.68	34.74	26.65	145.6	.597	.23	3.02
300	10.09	34.64	26.68	144.0	.670	.18	3.03
400	8.40	34.54	26.87	126.2	.806	.19	3.07
500	7.10	34.49	27.02	112.3	.927	.22	3.14
600	6.20	34.47	27.13	102.7	1.035	.21	3.19
700	5.52	34.48	27.22	94.3	1.135	.20	3.21
800	4.98	34.53	27.33	84.8	1.225	.26	3.21
1000	4.07	34.54	27.43	74.8	1.386	.50	3.24

## STATION 133.60 (Interpolated Values at Standard Depths)

CREST: 24°53'N 115°09.5'W November 16, 1950 0315 GCT Wire angle: 19°  
 Sounding: 1,990 fms. Depth of observation: 1,136 m. Weather: missing  
 Sea: moderate Wind: 360°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	20.93	33.69	23.54	436.1	.0000	4.89	.52
10	20.93	33.66	23.51	438.6	.0439	4.81	.52
20	20.88	33.67	23.54	436.9	.0879	4.90	.53
30	20.87	33.72	23.58	433.4	.1315	5.38	.53
50	17.95	33.80	24.39	356.7	.2109	5.57	.51
75	15.63	33.56	24.74	323.2	.2964	5.56	.55
100	13.40	33.51	25.18	282.1	.3726	5.38	.76
150	11.08	33.85	25.89	215.7	.498	2.90	2.07
200	10.77	34.30	26.29	178.4	.597	1.54	2.61
250	10.07	34.50	26.57	152.9	.681	.94	2.88
300	9.25	34.53	26.73	138.3	.754	.55	3.03
400	8.23	34.46	26.84	129.5	.839	.35	3.20
500	7.08	34.52	27.05	109.8	1.010	.30	3.20
600	6.22	34.53	27.17	98.6	1.115	.25	3.26
700	5.58	34.54	27.26	90.6	1.210	.29	3.27
800	5.04	34.55	27.34	84.1	1.298	.34	3.30
1000	4.13	34.58	27.46	72.5	1.457	.52	3.35

## STATION 133.70 (Interpolated Values at Standard Depths)

CREST: 24°35'N 115°40'W November 16, 1950 0820 GCT Wire angle: 11°  
 Sounding: 2,000 fms. Depth of observation: 1,180 m. Weather: partly cloudy  
 Sea: moderate Wind: 360°, force 4

0	20.87	33.68	23.55	435.2	.0000	5.01	.39
10	20.88	33.73	23.58	432.2	.0435	4.95	.40
20	20.89	33.72	23.57	433.6	.0870	5.00	.39
30	20.90	33.71	23.56	434.9	.1306	5.22	.38
50	17.78	33.67	24.33	362.2	.2107	5.60	.39
75	16.70	33.73	24.63	334.1	.2982	5.73	.42
100	13.59	33.50	25.13	286.6	.3763	5.37	.78
150	11.38	33.84	25.82	221.7	.504	2.99	1.97
200	10.58	34.31	26.33	174.4	.604	1.41	2.37
250	9.99	34.44	26.54	156.0	.687	.90	2.67
300	9.40	34.49	26.67	143.7	.763	.59	2.87
400	8.12	34.51	26.89	124.1	.898	.48	2.99
500	7.14	34.42	26.96	118.0	1.020	.27	3.04
600	6.22	34.51	27.16	100.1	1.130	.25	3.23
700	5.57	34.51	27.24	92.7	1.227	.25	3.34
800	5.00	34.52	27.32	85.8	1.317	.30	3.35
1000	4.20	34.59	27.46	72.7	1.477	.52	3.21



## STATION 137.30 (Interpolated Values at Standard Depths)

CREST: 25°19.5'N 112°45'W November 17, 1950 1600 GCT Wire angle: 15°  
 Sounding: 202 fms. Depth of observation: 293 m. Weather: partly cloudy  
 Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	22.62	34.40	23.61	429.3	.0000	4.46	.59
10	22.63	34.38	23.59	431.4	.0432	4.77	.59
20	22.61	34.35	23.57	433.4	.0866	4.77	.61
30	22.60	34.04	23.34	455.9	.1313	4.80	.65
50	15.15	33.69	24.95	302.9	.2075	5.23	.87
75	14.07	34.01	25.43	258.1	.2780	2.75	1.94
100	13.55	34.45	25.87	216.2	.3377	.75	2.85
150	12.69	34.66	26.21	185.5	.439	.22	3.09
200	11.80	34.69	26.41	168.0	.528	.20	3.17
250	10.91	34.66	26.55	155.5	.609	.20	3.19
300	(10.55)	(34.56)	(26.53)	(157.7)	(.688)	(.19)	(3.22)

## STATION 137.35 (Interpolated Values at Standard Depths)

CREST: 25°09.5'N 113°03.5'W November 17, 1950 1310 GCT Wire angle: 18°  
 Sounding: 350 fms. Depth of observation: 475 m. Weather: partly cloudy  
 Sea: very rough Wind: missing

0	22.30	34.18	23.53	436.6	.0000	4.74	.69
10	22.32	34.17	23.52	438.2	.0439	4.80	.66
20	22.31	34.18	23.53	437.6	.0879	4.80	.63
30	22.30	34.14	23.50	440.6	.1320	4.83	.63
50	15.45	33.60	24.81	315.7	.2080	5.35	.66
75	13.74	33.58	25.16	283.0	.2832	4.50	1.60
100	13.52	33.65	25.26	274.2	.3533	1.99	2.17
150	11.12	34.40	26.31	176.0	.467	1.18	2.43
200	10.65	34.60	26.55	154.2	.550	.55	2.96
250	10.12	34.62	26.65	144.9	.625	.42	3.04
300	9.46	34.58	26.73	138.0	.696	.32	3.05
400	7.88	34.53	26.94	119.0	.826	.29	3.05

## STATION 137.40 (Interpolated Values at Standard Depths)

CREST: 25°00'N 113°23.5'W November 17, 1950 0925 GCT Wire angle: 35°  
 Sounding: 1,600 fms. Depth of observation: 1,109 m. Weather: partly cloudy  
 Sea: very rough Wind: 360°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	23.13	34.34	23.42	447.6	.0000	4.67	.63
10	23.15	34.36	23.43	447.0	.0449	4.72	.65
20	23.16	34.35	23.42	448.4	.0899	4.60	.63
30	23.15	34.25	23.34	455.7	.1352	4.60	.65
50	17.27	34.03	24.73	324.3	.2136	5.10	1.00
75	12.85	33.87	25.57	244.6	.2852	3.45	1.71
100	11.76	33.87	25.78	225.1	.3442	2.69	2.00
150	11.56	34.70	26.46	161.7	.442	.70	2.86
200	11.31	34.85	26.62	147.4	.519	.20	3.00
250	10.60	34.74	26.66	144.2	.593	.23	3.00
300	9.78	34.61	26.70	141.0	.665	.27	2.99
400	8.41	34.45	26.80	132.9	.803	.30	3.19
500	7.17	34.61	27.10	104.4	.923	.29	3.27
600	6.30	34.58	27.20	96.0	1.024	.25	3.25
700	5.64	34.53	27.25	92.2	1.119	.26	3.25
800	5.09	34.54	27.32	85.5	1.208	.30	3.31
1000	4.21	34.60	27.47	72.0	1.368	.52	3.39

## STATION 137.50 (Interpolated Values at Standard Depths)

CREST: 24°39'N 114°01.5'W November 17, 1950 0328 GCT Wire angle: 18°  
 Sounding: 2,050 fms. Depth of observation: 1,214 m. Weather: clear  
 Sea: rough Wind: 360°, force 5

0	22.47	34.23	23.52	437.5	.0000	4.49	.67
10	22.55	34.16	23.45	445.1	.0443	4.55	.63
20	22.49	34.22	23.51	439.5	.0887	4.85	.68
30	22.49	34.16	23.46	444.2	.1331	4.87	.77
50	14.30	33.68	25.12	286.2	.2065	4.87	1.03
75	12.15	33.78	25.63	238.2	.2724	3.15	1.97
100	10.75	33.99	26.05	198.7	.3274	2.70	2.26
150	9.46	34.14	26.39	167.4	.420	2.29	2.65
200	9.74	34.42	26.56	152.3	.500	1.04	3.05
250	9.58	34.46	26.62	147.8	.576	.65	3.19
300	8.98	34.46	26.72	139.2	.648	.43	3.26
400	7.74	34.52	26.96	117.7	.777	.34	3.48
500	7.02	34.58	27.11	104.5	.889	.27	3.53
600	5.99	34.52	27.20	96.2	.991	.27	3.64
700	5.33	34.52	27.28	88.9	1.034	.34	3.58
800	4.90	34.51	27.32	85.3	1.172	.44	3.51
1000	4.10	34.55	27.44	74.4	1.333	.53	3.49

## STATION 137.60 (Interpolated Values at Standard Depths)

CREST: 24°20'N 114°39.5'W November 16, 1950 2129 GCT Wire angle: 31°  
 Sounding: 2,040 fms. Depth of observation: 1,165 m. Weather: cloudy  
 Sea: very rough Wind: 360°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	20.32	33.72	23.72	418.4	.0000	5.08	.54
10	20.34	33.75	23.74	417.0	.0419	4.93	.54
20	20.40	33.82	23.78	413.8	.0836	4.81	.57
30	19.25	33.68	23.97	395.8	.1243	4.82	.59
50	14.73	33.35	24.78	319.0	.1961	5.00	.61
75	13.15	33.78	25.44	256.9	.2685	4.35	1.00
100	11.35	33.69	25.71	231.1	.3299	3.59	1.65
150	10.44	34.48	26.49	158.4	.428	1.54	2.51
200	11.08	34.64	26.50	158.8	.508	.58	2.87
250	10.74	34.62	26.55	155.5	.587	.38	3.01
300	9.85	34.57	26.66	145.1	.663	.34	3.06
400	8.44	34.52	26.85	128.2	.800	.29	3.15
500	7.14	34.46	27.00	115.1	.923	.31	3.28
600	6.07	34.44	27.12	103.2	1.033	.33	3.36
700	5.38	34.47	27.23	93.2	1.132	.25	3.39
800	4.99	34.50	27.30	87.1	1.224	.27	3.40
1000	4.23	(34.52)	27.40	78.2	1.391	(.45)	(3.31)

## STATION 137.70 (Interpolated Values at Standard Depths)

CREST: 23°56'N 115°21.5'W November 16, 1950 1443 GCT Wire angle: 28°  
 Sounding: 2,100 fms. Depth of observation: 540 m. Weather: partly cloudy  
 Sea: very rough Wind: 320°, force 5

0	22.79	34.25	23.45	444.8	.0000	4.58	.55
10	22.80	34.23	23.43	446.8	.0443	4.42	.57
20	22.80	34.32	23.50	440.7	.0893	4.51	.57
30	22.79	34.18	23.39	450.9	.1341	5.00	.58
50	16.18	33.71	24.74	323.4	.2119	5.42	1.26
75	13.35	33.82	25.43	257.8	.2849	3.65	1.46
100	11.74	33.86	25.77	225.5	.3457	2.61	2.16
150	11.48	34.69	26.47	161.0	.443	.95	2.87
200	11.69	34.77	26.49	160.1	.524	.40	3.08
250	10.60	34.70	26.63	147.2	.601	.34	3.11
300	9.32	34.61	26.78	133.5	.672	.28	3.15
400	7.80	34.44	26.88	124.5	.802	.25	3.25
500	6.87	34.46	27.03	111.3	.921	.22	3.31

## STATION 140.35 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°36'N 112°43'W November 20, 1950 1120 GCT  
 Wire angle: 11° Sounding: 220 fms. Depth of observation: 237 m.  
 Weather: clear Sea: very rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	22.76	34.23	23.43	445.4	.0000	3.83	.50
10	22.77	34.27	23.47	443.1	.0446	4.14	.51
20	22.68	34.26	23.49	441.8	.0890	4.43	.51
30	22.62	34.23	23.48	442.7	.1334	4.66	.51
40	18.30	33.98	24.44	351.9	.2133	4.91	.59
75	14.57	33.86	25.21	279.1	.2926	3.49	1.10
100	12.01	33.88	25.74	228.9	.3565	2.30	1.76
150	11.95	34.44	26.18	187.9	.461	1.17	2.19
200	10.84	34.43	26.38	170.0	.552	.83	2.39

## STATION 140.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°25.5'N 113°02'W November 20, 1950 1514 GCT  
 Wire angle: 10° Sounding: 1,950 fms. Depth of observation: 1,158 m.  
 Weather: partly cloudy Sea: very rough Wind: 320°, force 4

0	22.50	34.02	23.35	453.5	.0000	4.19	(.49)
10	22.50	34.04	23.37	452.4	.0455	3.86	.43
20	22.50	34.02	23.35	454.3	.0910	4.62	.38
30	22.53	33.90	23.26	464.1	.1371	4.65	.38
50	17.06	33.66	24.49	346.5	.2186	4.46	.42
75	13.65	33.58	25.18	281.2	.2975	4.10	.58
100	12.22	33.87	25.69	233.5	.3622	3.27	1.39
150	11.48	34.36	26.21	185.3	.468	1.23	1.93
200	11.86	34.50	26.25	183.0	.560	.39	2.15
250	11.03	34.57	26.45	164.2	.648	.37	2.36
300	9.78	34.58	26.68	143.2	.725	.37	2.56
400	8.63	34.54	26.84	129.7	.863	.27	2.86
500	7.49	34.54	27.01	114.2	.986	.20	2.99
600	6.45	34.51	27.13	103.2	1.096	.31	3.02
700	5.63	34.54	27.26	91.3	1.194	.36	3.05
800	5.03	34.56	27.34	83.2	1.282	.37	3.08
1000	4.17	34.53	27.42	76.7	1.444	.42	3.09

## STATION 140.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°05.5'N 113°39.5'W November 20, 1950 2105 GCT Wire  
 angle: 8° Sounding: 1,820 fms. Depth of observation: 1,186 m.  
 Weather: partly cloudy Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	22.50	33.97	23.32	457.1	.0000	5.08	.35
10	22.47	34.04	23.38	451.6	.0456	5.01	.37
20	22.36	34.04	23.41	449.0	.0908	4.89	.34
30	22.26	34.03	23.43	447.4	.1358	4.88	.34
50	19.02	33.79	24.11	382.9	.2193	5.47	.42
75	14.49	33.55	24.98	300.2	.3051	5.79	.49
100	13.13	34.16	25.74	229.3	.3717	2.10	1.84
150	11.22	34.33	26.23	182.9	.475	1.69	2.13
200	10.33	34.43	26.47	161.3	.562	1.18	2.38
250	10.02	34.53	26.60	149.8	.641	.54	2.54
300	9.79	34.61	26.70	141.2	.714	.21	2.68
400	8.54	34.58	26.88	125.4	.848	.25	2.87
500	7.37	34.51	27.00	114.7	.969	.21	3.01
600	6.49	34.47	27.09	106.7	1.081	.30	3.15
700	5.68	34.49	27.21	95.6	1.183	.30	3.32
800	5.02	34.52	27.31	86.0	1.275	.31	3.40
1000	4.19	34.54	27.42	76.2	1.439	.56	3.41

## STATION 140.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°45.5'N 114°17.5'W November 21, 1950 0303 GCT Wire  
 angle: 21° Sounding: 2,180 fms. Depth of observation: 1,151 m.  
 Weather: cloudy Sea: rough Wind: 320°, force 3

0	22.62	34.31	23.54	435.8	.0000	4.99	.54
10	22.58	34.26	23.51	438.7	.0439	4.94	.53
20	22.56	34.25	23.51	439.3	.0880	4.93	.45
30	22.60	34.24	23.49	441.4	.1322	5.01	.47
50	14.95	33.66	24.97	300.9	.2068	5.01	.62
75	12.35	33.69	25.53	248.5	.2758	3.99	1.12
100	11.50	34.03	25.95	208.7	.3334	2.59	1.67
150	11.35	34.54	26.37	169.7	.429	1.05	2.21
200	11.32	34.70	26.50	158.6	.511	.29	2.38
250	10.80	34.69	26.59	151.4	.589	.20	2.46
300	9.88	34.66	26.73	139.1	.662	.17	2.54
400	8.40	34.57	26.90	123.9	.795	.18	2.62
500	7.21	34.49	27.01	113.9	.915	.25	2.78
600	6.50	34.51	27.12	103.9	1.025	.21	2.86
700	5.76	34.51	27.22	95.2	1.125	.24	2.92
800	5.09	34.51	27.30	87.7	1.218	.26	2.94
1000	4.28	34.55	27.42	76.6	1.384	.47	2.94



## STATION 140.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°45'N 116°10.5'W November 21, 1950 2212 GCT Wire  
 angle: 30° Sounding: 2,220 fms. Depth of observation: 1,122 m.  
 Weather: cloudy Sea: very rough Wind: 330°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	22.10	34.27	23.66	424.7	.0000	5.11	.48
10	22.08	34.27	23.66	424.5	.0426	4.63	.40
20	22.17	34.32	23.67	423.7	.0852	4.98	.42
30	22.17	34.34	23.69	422.6	.1277	4.99	.77
50	16.35	34.34	25.18	281.2	.1984	3.10	1.56
75	12.95	34.33	25.90	212.7	.2605	1.65	2.09
100	10.99	34.18	26.16	188.8	.3110	1.10	2.32
150	11.28	34.59	26.42	164.8	.400	.73	2.63
200	10.32	34.64	26.64	145.7	.478	.49	2.71
250	9.51	34.54	26.70	140.7	.550	.42	2.78
300	8.83	34.51	26.78	133.1	.619	.39	2.84
400	7.52	34.51	26.98	115.2	.745	.28	2.86
500	6.62	34.51	27.11	104.1	.855	.25	2.98
600	5.93	34.52	27.20	95.4	.956	.24	3.08
700	5.19	34.54	27.31	85.6	1.047	.31	3.12
800	4.73	34.56	27.38	79.4	1.131	.37	3.13
1000	4.28	34.55	27.42	76.6	1.288	.38	3.15

## STATION 140.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°25.5'N 116°47'W November 22, 1950 0424 GCT Wire  
 angle: 21° Sounding 2,280 fms. Depth of observation: 1,095 m.  
 Weather: cloudy Sea: rough Wind: 350°, force 3

0	20.95	33.98	23.75	415.6	.0000	5.00	.46
10	20.95	33.98	23.75	415.9	.0417	5.28	.47
20	20.92	33.98	23.76	415.5	.0835	5.15	.44
30	20.95	33.97	23.74	417.3	.1253	4.97	.40
50	17.70	33.74	24.40	355.3	.2029	4.92	.35
75	15.45	33.67	24.87	311.3	.2867	5.75	.36
100	13.55	33.70	25.30	271.1	.3600	4.50	.78
150	11.35	34.29	26.18	188.1	.476	1.79	2.09
200	10.30	34.41	26.46	162.3	.564	1.28	2.39
250	9.77	34.52	26.64	146.4	.642	.87	2.62
300	9.29	34.54	26.73	138.2	.713	.53	2.72
400	8.13	34.53	26.91	122.8	.845	.29	2.91
500	6.75	34.53	27.10	104.4	.959	.17	3.12
600	5.83	34.51	27.21	94.9	1.060	.20	3.21
700	5.42	34.54	27.28	88.5	1.152	.32	3.26
800	4.99	34.54	27.33	84.2	1.240	.40	3.29
1000	4.15	34.54	27.43	75.7	1.401	.52	3.40

## STATION 140.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°05.5'N 117°24.5'W November 22, 1950 1030 GCT Wire  
 angle: 9° Sounding: 2,200 fms. Depth of observation: 1,184 m.  
 Weather: overcast Sea: rough Wind: 340°, force 3

Depth (m)	T (°C)	S (%)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	21.95	34.05	23.53	436.6	.0000	3.80	(.58)
10	21.96	34.09	23.56	434.4	.0437	3.85	.56
20	21.94	34.09	23.56	434.2	.0873	3.81	.52
30	21.93	34.08	23.56	435.0	.1310	3.75	.49
50	19.00	33.73	24.07	386.7	.2135	4.42	.50
75	16.30	33.69	24.69	328.2	.3034	4.31	.64
100	14.10	33.69	25.17	282.8	.3803	3.58	.88
150	11.04	33.80	25.85	218.7	.506	2.70	1.55
200	10.34	34.35	26.41	167.4	.604	1.41	2.31
250	9.76	34.48	26.61	149.2	.683	.79	2.59
300	9.09	34.51	26.74	137.2	.756	.50	2.76
400	8.03	34.51	26.91	122.8	.887	.30	2.92
500	7.10	34.51	27.04	110.8	1.004	.20	3.17
600	6.32	34.43	27.11	104.6	1.113	.20	3.19
700	5.45	34.53	27.27	89.7	1.211	.24	3.22
800	4.94	34.60	27.39	79.1	1.296	.34	3.25
1000	4.11	34.58	27.46	72.3	1.450	.43	3.24

## STATION 143.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°11'N 112°03'W November 20, 1950 0446 GCT Wire  
 angle: 20° Sounding 120 fms. Depth of observation 143 m.  
 Weather: cloudy Sea: rough Wind: 320°, force 3

0	23.44	34.43	23.40	449.6	.0000	4.89	.39
10	23.47	34.43	23.39	450.8	.0452	4.70	.44
20	23.32	34.42	23.42	447.8	.0903	4.76	.46
30	22.00	34.13	23.58	433.3	.1345	5.16	.45
50	16.80	33.80	24.66	330.5	.2113	5.59	.38
75	14.25	33.85	25.27	273.4	.2872	3.95	1.09
100	13.35	34.20	25.72	230.6	.3506	2.03	2.01
150	(12.92)	(34.54)	(26.07)	(198.7)	(.459)	(.29)	(2.63)



## STATION 143.35 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°00'N 112°20'W November 20, 1950 0020 GCT; Wire  
 angle: 22° Sounding: 1,260 fms. Depth of observation: 1,232 m.  
 Weather: partly cloudy Sea: moderate Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^6 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	23.10	34.51	23.55	434.4	.0000	4.98	.44
10	23.10	34.42	23.48	441.3	.0440	4.90	.48
20	23.10	34.40	23.47	443.1	.0884	5.20	.48
30	19.00	34.39	24.65	331.2	.1272	5.22	.52
50	13.48	33.64	25.26	272.9	.1880	4.97	.70
75	11.98	33.73	25.63	238.8	.2523	3.40	1.23
100	11.77	34.09	25.95	209.1	.3086	2.30	1.84
150	11.83	34.56	26.30	176.9	.406	.78	2.44
200	11.73	34.72	26.51	158.0	.490	.39	2.52
250	10.75	34.70	26.61	149.8	.568	.29	2.61
300	10.07	34.66	26.69	142.2	.641	.25	2.73
400	8.56	34.57	26.87	126.4	.777	.21	2.87
500	7.05	34.51	27.05	110.1	.896	.22	2.97
600	6.02	34.52	27.19	96.6	1.000	.24	3.05
700	5.49	34.54	27.27	89.4	1.094	.25	3.06
800	5.01	34.56	27.35	83.0	1.181	.26	3.02
1000	4.11	34.59	27.47	71.6	1.338	.51	3.02

## STATION 143.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°50'N 112°39'W November 19, 1950 1944 GCT Wire  
 angle: 25° Sounding: 1,780 fms. Depth of observation: 1,047 m.  
 Weather: cloudy Sea: rough Wind: 330°, force 3

0	23.01	34.25	23.38	450.8	.0000	4.64	.63
10	22.96	34.25	23.40	449.8	.0452	4.20	.56
20	22.93	34.25	23.41	449.3	.0903	4.24	.61
30	20.80	34.24	23.99	393.9	.1327	4.52	.61
50	15.78	33.66	24.79	318.4	.2043	4.81	.60
75	13.25	33.69	25.35	265.4	.2776	4.14	1.05
100	11.99	34.20	25.99	205.0	.3368	2.60	1.61
150	12.29	34.76	26.37	170.7	.4314	.44	2.90
200	11.85	34.77	26.46	163.1	.515	.20	3.00
250	11.15	34.73	26.56	154.6	.595	.20	2.99
300	10.22	34.68	26.68	143.2	.670	.18	2.98
400	8.63	34.58	26.87	126.8	.807	.16	3.04
500	7.50	34.53	27.00	115.1	.928	.17	3.10
600	6.54	34.51	27.12	104.4	1.039	.21	3.14
700	5.78	34.51	27.21	95.5	1.140	.26	3.17
800	5.11	34.53	27.31	86.5	1.232	.27	3.21
1000	4.24	34.58	27.45	73.9	1.394	.40	3.18

## STATION 143.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°31'N 113°18'W November 19, 1950 1318 Wire  
 angle: 8° Sounding: 1,780 fms. Depth of observation: 1,163 m.  
 Weather: overcast Sea: rough Wind: 330°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	22.65	34.09	23.37	452.5	.0000	4.09	.37
10	22.65	34.07	23.35	454.3	.0455	4.38	.36
20	22.62	34.07	23.36	453.9	.0911	4.27	.37
30	22.64	34.07	23.35	454.8	.1367	4.29	.39
50	18.00	33.68	24.28	366.6	.2193	5.00	.41
75	14.60	33.69	25.07	292.2	.3021	4.82	.46
100	12.88	33.69	25.42	259.0	.3714	3.76	.96
150	11.85	34.35	26.13	192.7	.485	1.58	2.04
200	10.44	34.44	26.46	162.5	.575	1.31	2.51
250	10.01	34.56	26.63	147.5	.653	.81	2.79
300	9.79	34.60	26.70	141.9	.725	.31	2.96
400	8.83	34.60	26.85	128.4	.862	.28	3.24
500	7.52	34.56	27.02	113.2	.984	.19	3.39
600	6.65	34.57	27.15	101.6	1.092	.25	3.46
700	5.82	34.56	27.25	92.3	1.190	.25	3.50
800	5.13	34.54	27.32	86.0	1.280	.26	3.52
1000	4.25	34.57	27.44	74.7	1.442	.45	3.49

## STATION: 143.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°10.5'N 113°55.5'W November 19, 1950 0650 GCT Wire  
 angle: 8° Sounding 2,120 fms. Depth of observation: 1,186 m.  
 Weather: partly cloudy Sea: moderate Wind 330°, force 3

0	22.95	34.07	23.26	462.1	.0000	5.00	.40
10	22.96	34.05	23.25	464.2	.0465	4.89	.37
20	22.92	34.05	23.26	463.5	.0931	4.88	.36
30	22.90	34.05	23.26	463.3	.1396	4.99	.36
50	16.80	33.44	24.39	356.7	.2220	5.95	.37
75	14.40	33.53	24.99	299.8	.3045	5.54	.40
100	12.85	33.62	25.37	263.6	.3754	4.45	1.08
150	11.43	34.18	26.08	197.6	.491	1.65	2.12
200	11.22	34.52	26.38	170.1	.584	.52	2.54
250	10.42	34.51	26.52	158.1	.667	.32	2.69
300	9.72	34.49	26.62	148.9	.744	.27	2.78
400	8.35	34.47	26.83	130.5	.885	.26	2.86
500	7.24	34.43	26.96	118.7	1.011	.25	2.93
600	6.46	34.46	27.09	107.0	1.124	.17	3.04
700	5.78	34.47	27.18	98.4	1.228	.20	3.15
800	5.17	34.47	27.26	91.7	1.324	.26	3.22
1000	4.37	34.52	27.39	79.9	1.498	.46	3.19

## STATION 143.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°50.5'N 114°33'W November 19, 1950 0018 GCT Wire  
 angle: 7° Sounding: 2,060 fms. Depth of observation: 1,266 m.  
 Weather: partly cloudy Sea: very rough Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	23.37	34.34	23.35	454.2	.0000	4.97	.38
10	23.39	34.35	23.35	454.4	.0456	4.89	.44
20	23.34	34.40	23.40	449.8	.0910	4.89	.38
30	23.30	34.42	23.43	447.6	.1360	4.96	.37
50	21.00	33.87	23.66	426.6	.2239	5.78	.39
75	15.25	33.57	24.84	314.4	.3170	5.80	.47
100	13.33	33.62	25.28	272.7	.3909	4.27	1.00
150	10.83	34.12	26.14	191.6	.508	2.34	1.99
200	10.33	34.40	26.45	163.5	.597	1.24	2.37
250	10.00	34.46	26.55	154.7	.677	.68	2.56
300	9.37	34.48	26.67	143.9	.753	.38	2.68
400	8.09	34.48	26.87	125.9	.888	.25	2.86
500	7.07	34.43	26.98	116.3	1.011	.23	2.96
600	6.28	34.42	27.08	107.5	1.124	.21	3.04
700	5.55	34.43	27.18	98.4	1.227	.26	3.16
800	4.94	34.44	27.26	90.9	1.323	.35	3.27
1000	4.15	34.48	27.38	80.2	1.496	.51	3.23

## STATION: 147.25 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°46.5'N 111°22.5'W November 17, 1950 1308 GCT Wire  
 angle: 2° Sounding 240 fms. Depth of observation 296 m.  
 Weather: partly cloudy Sea: rough Wind 360°, force 4

0	24.15	34.45	23.20	468.1	.0000	4.19	.41
10	24.16	34.47	23.21	467.3	.0470	4.46	.44
20	24.14	34.47	23.22	467.1	.0939	4.29	.47
30	23.00	34.46	23.55	436.5	.1392	4.11	.52
50	16.06	33.83	24.85	312.0	.2144	3.94	.67
75	14.20	33.91	25.32	268.0	.2873	3.85	1.17
100	13.32	34.05	25.61	241.0	.3514	2.40	1.91
150	12.19	34.64	26.29	177.6	.457	.57	2.59
200	11.75	34.73	26.45	164.2	.543	.26	2.89
250	11.18	34.76	26.57	152.9	.623	.14	(2.95)
300	(10.55)	(34.72)	(26.66)	(146.0)	(.698)	(.17)	-

## STATION 147.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°35'N 111°42.5'W November 17, 1950 1643 GCT Wire  
 angle: 7° Sounding: 220 fms. Depth of observation: 293 m.  
 Weather: partly cloudy Sea: moderate Wind: 340°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	23.89	34.49	23.31	457.9	.0000	5.09	.44
10	23.87	34.45	23.28	460.6	.0461	4.18	.55
20	23.87	34.45	23.28	461.0	.0924	3.67	.60
30	23.86	34.45	23.29	461.1	.1387	3.62	.61
50	16.18	33.68	24.71	325.6	.2177	3.76	.57
75	13.95	33.90	25.37	263.7	.2918	3.54	1.33
100	12.95	34.37	25.93	210.4	.3514	.50	2.27
150	11.84	34.76	26.45	162.4	.445	.27	2.85
200	11.26	34.72	26.53	156.1	.525	.38	3.03
250	10.72	34.52	26.47	162.5	.606	.15	(3.07)
300	(10.20)	(34.68)	(26.69)	(142.9)	(.683)	(.23)	-

## STATION 147.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°16'N 112°19'W November 17, 1950 2302 GCT Wire  
 angle: 20° Sounding: 1,880 fms. Depth of observation: 1,085 m.  
 Weather: clear Sea: rough Wind: 320°, force 4

0	24.51	34.52	23.15	473.3	.0000	4.91	.45
10	24.51	34.63	23.23	465.7	.0471	4.78	.51
20	24.50	34.57	23.19	470.2	.0941	4.82	.50
30	24.53	34.27	22.95	493.0	.1425	5.05	.51
50	14.00	33.75	25.24	275.0	.2197	5.45	.68
75	12.95	33.96	25.62	239.9	.2844	2.15	2.11
100	12.04	34.33	26.08	196.4	.3393	1.80	2.23
150	12.04	34.67	26.34	172.6	.432	1.13	2.56
200	11.48	34.76	26.52	157.1	.515	.37	2.80
250	10.80	34.76	26.64	146.2	.592	.32	2.89
300	10.11	34.71	26.73	139.2	.663	.27	2.94
400	8.50	34.56	26.87	126.2	.797	.24	3.00
500	7.46	34.52	27.00	115.3	.919	.15	3.11
600	6.50	34.56	27.16	100.2	1.028	.19	3.24
700	5.63	34.60	27.30	86.8	1.122	.25	3.36
800	4.93	34.59	27.38	79.7	1.206	.28	3.38
1000	4.08	34.56	27.45	73.4	1.361	.46	3.35

## STATION: 147.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°56'N 112°56.5'W November 18, 1950 0432 GCT Wire  
 angle: 16° Sounding: 1,740 fms. Depth of observation: 1,152 m.  
 Weather: clear Sea: rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^7 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	23.89	34.54	23.35	454.3	.0000	4.94	.43
10	23.91	34.49	23.30	458.8	.0458	4.77	.43
20	23.75	34.44	23.31	458.3	.0919	4.81	.41
30	23.59	34.40	23.33	457.1	.1378	5.09	.40
50	18.00	33.81	24.38	357.2	.2197	5.88	.42
75	14.64	33.78	25.13	286.4	.3006	4.90	1.30
100	13.25	34.31	25.83	220.6	.3643	2.01	2.02
150	11.85	34.59	26.32	175.0	.464	.81	2.41
200	11.37	34.74	26.52	156.6	.547	.31	2.63
250	10.52	34.70	26.65	145.8	.624	.19	2.64
300	9.68	34.64	26.74	137.2	.695	.16	2.66
400	8.32	34.51	26.86	127.1	.828	.19	2.88
500	7.28	34.51	27.01	113.4	.949	.19	3.00
600	6.44	34.52	27.14	102.3	1.058	.18	3.08
700	5.75	34.54	27.24	92.9	1.157	.20	3.12
800	5.24	34.57	27.33	85.2	1.247	.26	3.16
1000	4.32	34.59	27.45	74.1	1.408	.38	3.25

## STATION 147.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°36'N 113°33.5'W November 18, 1950 1113 GCT Wire  
 angle: 19° Sounding: 2,120 fms. Depth of observation: 1,132 m.  
 Weather: clear Sea: rough Wind 320°, force 4

0	22.99	34.21	23.36	453.1	.0000	(4.06)	.36
10	23.00	34.23	23.37	452.3	.0455	4.14	.35
20	23.00	34.19	23.34	455.6	.0910	4.23	.46
30	23.00	34.05	23.24	466.1	.1373	4.32	.44
50	16.50	33.79	24.72	324.6	.2167	4.41	.37
75	14.48	33.78	25.16	283.2	.2931	4.29	.67
100	13.50	33.79	25.38	263.6	.3619	2.07	1.60
150	12.47	34.70	26.28	178.4	.473	.57	2.46
200	11.68	34.78	26.50	159.2	.558	.20	2.63
250	10.98	34.74	26.60	150.8	.636	.15	2.73
300	10.27	34.70	26.69	142.6	.710	.19	2.77
400	8.84	34.65	26.89	124.9	.845	.24	2.84
500	7.55	34.56	27.02	113.6	.965	.16	2.96
600	6.57	34.51	27.11	104.9	1.076	.20	3.03
700	5.81	34.52	27.22	95.1	1.177	.31	3.06
800	5.23	34.53	27.30	88.0	1.269	.36	3.10
1000	4.40	34.59	27.44	75.1	1.434	.39	3.20

## STATION 147.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°17'N 114°14'W November 18, 1950 1728 GCT Wire  
 angle: 4° Sounding: 2,140 fms. Depth of observation: 1,189 m.  
 Weather: clear Sea: rough Wind: 320°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	23.41	34.43	23.40	448.8	.0000	3.84	.35
10	23.40	34.43	23.41	448.9	.0451	4.50	.34
20	23.32	34.44	23.44	446.3	.0900	4.25	.34
30	23.30	34.44	23.44	446.2	.1348	4.22	.35
50	19.85	34.13	24.16	378.6	.2177	4.80	.42
75	14.37	33.64	25.08	291.2	.3019	4.63	.50
100	13.23	33.85	25.48	253.9	.3705	3.94	.99
150	11.25	34.15	26.09	196.6	.484	1.80	1.97
200	10.42	34.43	26.45	162.8	.574	1.18	2.37
250	9.76	34.56	26.67	143.3	.651	.68	2.63
300	9.20	34.61	26.80	131.6	.721	.35	2.79
400	8.25	34.51	26.87	126.1	.851	.30	2.87
500	7.22	34.54	27.05	110.3	.970	.25	2.93
600	6.27	34.51	27.15	100.7	1.076	.25	3.05
700	5.52	34.51	27.25	92.1	1.174	.29	3.06
800	4.98	34.52	27.32	85.5	1.263	.36	3.07
1000	4.19	34.60	27.47	71.8	1.422	.61	3.10

## STATION 150.25 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°12'N 111°01.5'W November 25, 1950 0619 GCT Wire  
 angle: 9° Sounding: 720 fms. Depth of observation: 1,180 m.  
 Weather: cloudy Sea: rough Wind: 340°, force 3

0	24.40	34.58	23.23	466.1	.0000	4.48	.44
10	24.40	34.58	23.23	466.5	.0468	4.65	.40
20	24.40	34.43	23.11	477.7	.0942	4.61	.42
30	24.40	34.20	22.94	494.6	.1430	4.57	.42
50	18.32	33.68	24.20	374.2	.2303	5.50	.43
75	14.02	33.66	25.17	283.1	.3130	4.00	1.20
100	12.65	33.90	25.63	239.4	.3787	2.20	1.90
150	11.88	34.61	26.33	174.3	.483	.60	2.63
200	11.32	34.67	26.48	160.8	.567	.23	2.79
250	10.70	34.68	26.60	150.4	.646	.17	2.84
300	10.01	34.67	26.71	140.6	.719	.15	2.86
400	8.50	34.57	26.88	125.6	.853	.20	3.04
500	7.40	34.52	27.01	114.4	.974	.20	3.15
600	6.50	34.51	27.12	104.1	1.084	.20	3.24
700	5.68	34.51	27.23	94.3	1.185	.25	3.27
800	5.03	34.51	27.31	87.1	1.276	.28	3.30
1000	4.35	34.58	27.44	75.5	1.441	.41	3.29

## STATION 150.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°02'N 111°20'W November 25, 1950 0155 GCT Wire  
 angle: 7° Sounding: 1,520 fms. Depth of observation: 1,165 m.  
 Weather: cloudy Sea: rough Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	24.30	34.42	23.14	474.5	.0000	4.19	.34
10	24.34	34.41	23.12	476.8	.0478	4.08	.36
20	24.32	34.43	23.14	475.1	.0955	4.15	.34
30	24.30	34.43	23.14	474.9	.1432	4.30	.36
50	17.35	33.70	24.45	350.2	.2262	4.98	.50
75	13.61	33.66	25.25	274.6	.3047	3.98	.98
100	12.25	33.92	25.72	230.3	.3682	2.50	1.66
150	12.10	34.57	26.26	181.1	.472	.64	2.60
200	11.45	34.69	26.47	161.7	.558	.25	2.75
250	10.86	34.68	26.57	153.1	.637	.21	2.83
300	10.24	34.64	26.65	146.5	.713	.20	2.89
400	8.68	34.59	26.87	126.8	.851	.17	2.91
500	7.47	34.51	26.99	116.2	.973	.15	3.06
600	6.56	34.51	27.11	104.7	1.085	.20	3.22
700	5.85	34.51	27.21	96.4	1.186	.21	3.26
800	5.21	34.52	27.29	88.5	1.279	.25	3.26
1000	4.27	34.60	27.46	72.8	1.443	.40	3.26

## STATION 150.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°42'N 111°57.5'W November 24, 1950 1921 GCT Wire  
 angle: 16° Sounding: 1,780 fms. Depth of observation: 1,143 m.  
 Weather: cloudy Sea: rough Wind: 340°, force 4

0	24.07	-	-	-	-	3.97	.48
10	24.06	-	-	-	-	4.52	.48
20	24.02	-	-	-	-	4.30	.44
30	24.02	-	-	-	-	4.40	.37
50	16.65	-	-	-	-	5.42	.38
75	14.00	-	-	-	-	4.30	.79
100	12.55	-	-	-	-	2.20	1.78
150	12.23	-	-	-	-	.76	2.40
200	11.67	-	-	-	-	.30	2.54
250	10.93	-	-	-	-	.20	2.60
300	10.10	-	-	-	-	.18	2.62
400	8.61	-	-	-	-	.15	2.65
500	7.09	-	-	-	-	.15	2.78
600	6.25	-	-	-	-	.23	2.92
700	5.56	-	-	-	-	.27	2.95
800	4.95	-	-	-	-	.28	2.96
1000	4.08	-	-	-	-	.50	2.98

## STATION 150.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°22'N 112°35'W November 24, 1950 1205 GCT Wire  
 angle: 4° Sounding: 1,940 fms. Depth of observation: 1,190 m.  
 Weather: Cloudy Sea: rough Wind: 320°, force 1

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^6 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	24.09	34.47	23.24	465.0	.0000	4.87	.62
10	24.11	34.46	23.22	466.6	.0468	4.15	.38
20	24.10	34.48	23.24	465.3	.0935	3.71	.40
30	24.10	34.49	23.25	464.9	.1402	3.67	.42
50	18.11	33.68	24.26	369.2	.2241	5.00	.42
75	14.25	33.70	25.15	284.4	.3062	3.97	1.12
100	12.95	34.16	25.77	225.8	.3704	2.15	1.74
150	11.97	34.58	26.29	178.0	.472	.80	2.35
200	11.15	34.63	26.48	160.8	.557	.40	2.51
250	10.38	34.65	26.63	147.1	.635	.25	2.63
300	9.69	34.65	26.75	136.6	.706	.22	2.71
400	8.40	34.51	26.85	128.4	.840	.27	2.76
500	7.33	34.50	27.00	114.9	.963	.20	2.84
600	6.55	34.49	27.10	106.1	1.074	.18	2.96
700	5.77	34.50	27.21	96.1	1.176	.23	3.06
800	5.06	34.51	27.30	87.3	1.269	.32	3.14
1000	4.18	34.52	27.41	77.6	1.435	.47	3.25

## STATION 150.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°02'N 113°12'W November 24, 1950 0558 GCT Wire  
 angle: 2° Sounding: 2,020 fms. Depth of observation: 1,186 m.  
 Weather: cloudy Sea: rough Wind: 320°, force 2

0	23.98	34.43	23.24	464.7	.0000	4.70	.46
10	24.00	34.42	23.22	466.4	.0467	4.78	.43
20	24.00	34.43	23.23	466.1	.0936	4.26	.43
30	24.00	34.43	23.23	466.4	.1403	4.23	.42
50	19.79	33.82	23.94	399.6	.2274	5.14	.38
75	14.84	33.84	25.13	286.2	.3136	4.18	1.02
100	13.40	34.15	25.67	235.3	.3792	2.25	1.73
150	12.31	34.60	26.24	182.8	.484	.60	2.28
200	11.00	34.54	26.44	164.7	.572	.57	2.34
250	10.20	34.54	26.58	152.1	.652	.47	2.44
300	9.57	34.55	26.69	142.0	.726	.29	2.57
400	8.46	34.54	26.86	127.1	.861	.22	2.73
500	7.36	34.49	26.99	116.0	.984	.17	2.77
600	6.39	34.51	27.14	102.4	1.094	.25	2.85
700	5.70	34.51	27.22	94.4	1.194	.29	2.90
800	5.13	34.51	27.29	88.2	1.286	.30	2.93
1000	4.30	34.54	27.41	77.6	1.453	.50	3.02



## STATION 150.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°41'N 113°49'W November 23, 1950 2358 GCT Wire  
 angle: 5° Sounding: 2,020 fms. Depth of observation: 1,183 m.  
 Weather: cloudy Sea: rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	23.25	34.20	23.28	461.0	.0000	4.93	.40
10	23.18	34.20	23.30	459.4	.0462	4.80	.45
20	23.50	34.46	23.40	449.9	.0919	4.72	.36
30	23.53	34.47	23.40	450.4	.1370	4.76	.32
50	19.54	34.02	24.15	378.9	.2204	5.45	.39
75	16.42	33.81	24.76	322.1	.3085	5.30	.45
100	13.90	33.72	25.24	276.6	.3838	5.00	.56
150	11.28	34.12	26.06	199.4	.504	2.20	1.95
200	10.75	34.42	26.39	169.2	.596	1.16	2.27
250	10.25	34.45	26.50	159.6	.679	.63	2.43
300	9.66	34.47	26.62	149.4	.757	.40	2.55
400	8.39	34.51	26.85	128.2	.897	.30	2.67
500	7.35	34.46	26.97	118.1	1.021	.25	2.75
600	6.43	34.51	27.13	102.9	1.133	.25	2.88
700	5.72	34.49	27.21	96.2	1.233	.27	2.94
800	5.12	34.45	27.25	92.5	1.328	.34	2.96
1000	4.33	34.53	27.40	78.7	1.502	.48	2.96

## STATION 150.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°21'N 114°26'W November 23, 1950 1825 GCT Wire  
 angle: 5° Sounding: 2,000 fms. Depth of observation: 1,180 m.  
 Weather: overcast Sea: rough Wind: calm

0	24.08	34.69	23.40	448.8	.0000	-	.33
10	24.07	34.69	23.41	448.9	.0451	4.42	.30
20	24.08	34.69	23.40	449.6	.0902	4.45	.27
30	24.03	34.69	23.42	448.6	.1353	4.45	.26
50	23.91	34.66	23.43	448.1	.2254	4.44	.30
75	17.75	33.97	24.56	340.5	.3245	5.33	.30
100	16.30	33.94	24.88	310.7	.4064	4.25	.36
150	12.15	34.12	25.90	215.0	.539	2.17	1.66
200	11.24	34.48	26.35	173.4	.637	1.02	2.40
250	10.40	34.53	26.54	156.2	.720	.52	2.55
300	9.70	34.55	26.67	144.1	.795	.38	2.64
400	8.22	34.52	26.88	124.9	.931	.30	2.87
500	7.08	34.51	27.04	110.5	1.050	.27	3.01
600	6.50	34.52	27.13	103.2	1.157	.17	3.10
700	5.96	34.54	27.22	95.7	1.258	.20	3.12
800	5.29	34.55	27.31	87.3	1.350	.30	3.14
1000	4.37	34.58	27.43	75.5	1.515	.48	3.18

















## STATION 157.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 20°51'N 112°30'W November 27, 1950 1009 GCT Wire  
 angle: 14° Sounding: 2,040 fms. Depth of observation: 1,161 m.  
 Weather: partly cloudy Sea: rough, Wind: 340°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	23.70	34.37	23.27	461.2	.0000	4.89	.42
10	23.71	34.36	23.26	462.6	.0464	5.03	.50
20	23.70	34.36	23.27	462.9	.0928	4.65	.50
30	23.68	34.36	23.27	462.5	.1393	4.66	.48
50	17.30	33.59	24.38	357.0	.2216	5.69	.42
75	14.52	33.53	24.96	302.3	.3045	5.41	.48
100	13.15	34.03	25.63	239.2	.3726	3.50	1.24
150	12.12	34.52	26.21	185.1	.479	.80	2.65
200	11.27	34.62	26.45	163.6	.567	.33	2.67
250	10.55	34.65	26.60	150.0	.646	.31	2.73
300	9.90	34.66	26.72	139.3	.719	.32	2.76
400	8.70	34.53	26.82	131.5	.856	.17	2.94
500	7.30	34.49	27.00	115.2	.980	.15	3.15
600	6.40	34.48	27.11	104.7	1.091	.15	3.25
700	5.77	34.49	27.20	96.8	1.193	.15	3.30
800	5.25	34.52	27.29	89.0	1.287	.19	3.33
1000	4.52	34.58	27.42	77.4	1.455	.35	3.36

## STATION 157.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 20°32'N 113°06'W November 27, 1950 0403 GCT Wire  
 angle: 15° Sounding: 1,900 fms. Depth of observation: 1,141 m.  
 Weather: cloudy Sea: moderate Wind: 320°, force 2

0	23.53	34.45	23.38	450.7	.0000	4.81	.30
10	23.52	34.43	23.37	452.2	.0453	4.89	.30
20	23.52	34.44	23.38	451.9	.0907	4.97	.32
30	23.55	34.49	23.41	449.5	.1360	5.05	.32
50	22.30	34.58	23.84	409.5	.2223	5.23	.33
75	17.10	34.10	24.82	316.2	.3135	5.42	.37
100	14.40	33.71	25.13	287.3	.3894	5.30	.63
150	12.45	34.65	26.25	181.7	.507	1.06	2.43
200	11.86	35.11	26.72	138.3	.588	.37	2.58
250	10.93	34.73	26.60	150.7	.661	.36	2.67
300	9.95	34.57	26.64	146.8	.736	.38	2.73
400	8.70	34.47	26.77	136.0	.878	.29	2.88
500	7.62	34.54	26.99	116.1	1.005	.20	3.12
600	6.62	34.72	27.27	90.1	1.109	.20	3.26
700	5.86	34.78	27.42	76.6	1.194	.20	3.28
800	5.25	34.77	27.48	70.5	1.268	.20	3.30
1000	4.53	34.59	27.43	76.8	1.417	.48	3.34

## STATION 120.45K-6 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 13, 1950 1727, 1754 GCT  
 Wire angles: 0°, Soundings: 1,100, 1,100 fms. Depth of observations:  
 805, 1,008 m. Weather: cloudy Sea: moderate Wind: 240°, force 1

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.58	33.78	23.96	395.6	.0000	-	-
10	19.55	33.76	23.95	396.6	.0398	-	-
20	19.56	33.78	23.97	395.8	.0795	-	-
30	19.54	33.78	23.97	395.6	.1193	-	-
50	14.39	33.37	24.87	310.7	.1903	-	-
75	11.92	33.63	25.56	245.1	.2601	-	-
100	10.98	33.86	25.91	212.2	.3176	-	-
150	9.60	34.02	26.27	178.5	.416	-	-
200	9.28	34.21	26.48	160.4	.501	-	-
250	9.01	34.50	26.75	135.7	.576	-	-
300	8.55	34.40	26.74	137.0	.645	-	-
400	7.69	34.36	26.84	128.8	.779	-	-
500	6.85	34.41	27.00	114.7	.901	-	-
600	6.00	34.45	27.14	101.5	1.010	-	-
700	5.31	34.45	27.22	93.8	1.109	-	-
800	4.73	34.45	27.29	87.6	1.201	-	-
1000	3.98	34.50	27.41	76.6	1.367	-	-

## STATION 120.45K-7 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 13, 1950 2007 GCT Wire  
 angle: 1° Sounding: 1,100 fms. Depth of observation: 1,200 m. Weather:  
 cloudy Sea: moderate Wind: 240°, force 1

0	19.70	33.70	23.87	404.3	.0000	-	-
10	19.57	33.69	23.90	402.2	.0405	-	-
20	19.57	33.69	23.90	402.5	.0809	-	-
30	19.40	33.68	23.93	399.4	.1211	-	-
50	14.66	33.45	24.87	310.3	.1925	-	-
75	11.95	33.51	25.46	254.4	.2635	-	-
100	10.95	33.69	25.79	224.2	.3237	-	-
150	9.58	33.93	26.21	194.9	.427	-	-
200	9.31	34.16	26.43	164.6	.515	-	-
250	8.87	34.53	26.79	131.3	.590	-	-
300	8.24	34.29	26.70	140.4	.658	-	-
400	7.65	34.40	26.88	125.3	.791	-	-
500	6.67	34.43	27.04	110.7	.910	-	-
600	5.87	34.42	27.13	102.0	1.018	-	-
700	5.25	34.40	27.19	96.7	1.118	-	-
800	4.71	34.40	27.25	91.0	1.213	-	-
1000	3.96	34.52	27.43	74.9	1.381	-	-

## STATION 120.45K-8 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 13, 1950 2244 GCT Wire angle: 3°  
 Sounding: 1,100 fms. Depth of observation: 300 m. Weather cloudy  
 Sea: moderate Wind: 220°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5\delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.76	33.71	23.86	405.1	.0000	-	-
10	19.56	33.73	23.93	399.1	.0404	-	-
20	19.54	33.40	23.68	422.8	.0816	-	-
30	16.43	33.40	24.44	350.9	.1205	-	-
50	14.36	33.62	25.07	291.8	.1850	-	-
75	11.78	33.56	25.53	247.7	.2529	-	-
100	11.05	33.66	25.74	228.1	.3127	-	-
150	9.68	34.00	26.25	181.3	.416	-	-
200	9.60	34.25	26.45	162.6	.502	-	-
250	9.76	34.49	26.61	148.5	.581	-	-
300	8.25	34.29	26.70	140.5	.653	-	-

## STATION 120.45K-9 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 0208 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 1,204 m.  
 Weather: overcast Sea: moderate Wind: 260°, force 2

0	19.64	33.71	23.89	402.1	.0000	-	-
10	19.54	33.67	23.89	402.9	.0404	-	-
20	19.51	33.64	23.87	404.7	.0810	-	-
30	19.50	33.61	23.85	407.0	.1217	-	-
50	15.62	33.57	24.75	321.5	.1949	-	-
75	12.05	33.53	25.46	254.8	.2674	-	-
100	11.07	33.66	25.74	228.5	.3281	-	-
150	9.60	33.95	26.22	183.7	.432	-	-
200	9.68	34.28	26.46	161.6	.519	-	-
250	9.25	34.54	26.74	136.6	.594	-	-
300	8.26	34.27	26.68	142.2	.664	-	-
400	7.74	34.33	26.81	131.7	.802	-	-
500	6.75	34.43	27.03	111.8	.925	-	-
600	6.00	34.41	27.11	104.5	1.034	-	-
700	5.36	34.42	27.20	96.6	1.136	-	-
800	4.73	34.43	27.27	89.1	1.229	-	-
1000	4.03	34.49	27.40	78.0	1.398	-	-

## STATION 120.45K-10 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 0500 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 299 m.  
 Weather: cloudy Sea: moderate Wind: 260°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.59	33.70	23.90	401.6	.0000	-	-
10	19.58	33.69	23.89	402.4	.0404	-	-
20	19.53	33.68	23.90	402.3	.0808	-	-
30	19.48	33.67	23.90	402.1	.1211	-	-
50	15.41	33.30	24.59	336.8	.1954	-	-
75	12.75	33.61	25.39	261.8	.2706	-	-
100	11.15	33.63	25.70	232.0	.3328	-	-
150	9.56	33.96	26.23	182.3	.437	-	-
200	9.72	34.32	26.49	159.3	.523	-	-
250	9.53	34.42	26.60	149.9	.601	-	-
300	8.23	34.27	26.69	141.7	.674	-	-

## STATION 120.45K-11 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 0800 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 1,205 m.  
 Weather: clear Sea: moderate Wind: 250°, force 2

0	19.54	33.70	23.91	400.4	.0000	-	-
10	19.53	33.71	23.92	399.8	.0402	-	-
20	19.52	33.69	23.91	401.3	.0804	-	-
30	19.52	33.63	23.86	406.0	.1209	-	-
50	14.34	33.48	24.96	301.6	.1920	-	-
75	12.15	33.51	25.42	258.1	.2624	-	-
100	11.08	33.65	25.73	229.3	.3237	-	-
150	9.58	34.01	26.27	179.0	.426	-	-
200	9.29	34.20	26.47	161.3	.512	-	-
250	8.85	34.54	26.80	130.3	.586	-	-
300	8.23	34.28	26.69	141.0	.654	-	-
400	7.75	34.42	26.88	125.2	.788	-	-
500	6.71	34.41	27.01	112.7	.908	-	-
600	5.91	34.43	27.14	101.8	1.016	-	-
700	5.32	34.44	27.22	94.6	1.115	-	-
800	4.81	34.44	27.27	89.3	1.208	-	-
1000	4.00	34.49	27.40	77.6	1.377	-	-

## STATION 120.45K-12 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 1103 GCT Wire  
 angle: 04° Sounding: 1,100 fms. Depth of observation: 124 m.  
 Weather: clear Sea: moderate Wind: 270°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.52	33.69	23.91	400.6	.0000	-	-
10	19.53	33.69	23.91	401.2	.0403	-	-
20	19.51	33.70	23.92	400.3	.0805	-	-
30	19.35	33.70	23.96	396.7	.1205	-	-
50	13.93	33.44	25.02	296.3	.1902	-	-
75	11.78	33.50	25.49	252.1	.2591	-	-
100	11.26	33.73	25.76	226.6	.3193	-	-

## STATION 120.45K-13 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 1408 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: partly cloudy Sea: moderate Wind: 250°, force 3

0	19.50	33.71	23.93	398.7	.0000	-	-
10	19.49	33.71	23.93	398.8	.0400	-	-
20	19.50	33.70	23.92	400.1	.0801	-	-
30	19.48	33.65	23.89	403.6	.1205	-	-
50	14.21	33.40	24.93	304.8	.1917	-	-
75	12.28	33.51	25.40	260.4	.2627	-	-
100	11.28	33.78	25.80	223.3	.3236	-	-
150	9.55	33.98	26.25	180.7	.425	-	-
200	9.83	34.28	26.44	164.1	.512	-	-
250	9.60	34.47	26.63	147.4	.590	-	-
300	(8.47)	(34.34)	(26.71)	(140.2)	(.663)	-	-

## STATION 120.45K-14 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 1700 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 300 m.  
 Weather: partly cloudy Sea: moderate Wind: 220°, force 2

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.52	33.68	23.90	401.4	.0000	-	-
10	19.49	33.68	23.91	401.0	.0403	-	-
20	19.48	33.69	23.92	400.3	.0805	-	-
30	19.47	33.69	23.92	400.4	.1207	-	-
50	14.04	33.33	24.91	306.6	.1918	-	-
75	12.10	33.54	25.46	254.9	.2623	-	-
100	11.44	33.72	25.72	230.5	.3234	-	-
150	9.85	33.92	26.15	189.9	.430	-	-
200	9.35	34.15	26.42	166.0	.519	-	-
250	9.74	34.52	26.64	146.0	.597	-	-
300	8.42	34.33	26.70	140.1	.669	-	-

## STATION 120.45K-15 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 2000 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 779 m.  
 Weather: cloudy Sea: moderate Wind: 210°, force 2

0	19.75	33.68	23.84	407.0	.0000	-	-
10	19.51	33.77	23.97	394.9	.0402	-	-
20	19.49	33.76	23.97	395.5	.0800	-	-
30	19.46	33.73	23.95	397.3	.1197	-	-
50	13.74	33.35	24.99	299.2	.1897	-	-
75	12.44	33.71	25.52	248.7	.2586	-	-
100	11.40	33.85	25.83	220.2	.3176	-	-
150	9.51	34.09	26.34	171.9	.416	-	-
200	9.52	34.35	26.55	153.9	.498	-	-
250	9.80	34.52	26.63	146.9	.574	-	-
300	8.39	34.47	26.82	129.3	.644	-	-
400	7.43	34.38	26.89	123.6	.771	-	-
500	6.61	34.47	27.08	106.9	.887	-	-
600	5.68	34.52	27.24	92.2	.988	-	-
700	5.09	34.54	27.32	84.3	1.077	-	-

## STATION 120.45K-16 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 14, 1950 2300 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 1,207 m.  
 Weather: cloudy Sea: moderate Wind: 200°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^3\delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu\text{g at/L}$ )
0	19.70	33.78	23.93	398.5	.0000	-	-
10	19.51	33.75	23.96	396.4	.0399	-	-
20	19.50	33.78	23.98	394.3	.0796	-	-
30	19.46	33.78	23.99	393.6	.1191	-	-
50	14.08	33.28	24.86	311.0	.1900	-	-
75	12.33	33.60	25.46	254.7	.2611	-	-
100	11.11	33.74	25.80	223.2	.3212	-	-
150	9.75	34.06	26.28	178.0	.422	-	-
200	9.71	34.37	26.53	155.5	.506	-	-
250	9.32	34.54	26.73	137.7	.580	-	-
300	8.55	34.43	26.76	134.7	.649	-	-
400	7.72	34.49	26.94	119.6	.777	-	-
500	6.70	34.51	27.09	105.2	.890	-	-
600	5.91	34.43	27.14	101.8	.995	-	-
700	5.30	34.46	27.23	92.9	1.093	-	-
800	4.78	34.52	27.34	83.0	1.182	-	-
1000	4.08	34.55	27.44	74.1	1.341	-	-

## STATION 120.45K-17 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°45'W November 15, 1950 0200 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: partly cloudy Sea: moderate Wind: 330°, force 2

0	19.70	33.69	23.86	405.1	.0000	-	-
10	19.63	33.69	23.88	403.7	.0406	-	-
20	19.56	33.68	23.89	403.0	.0811	-	-
30	19.50	33.67	23.90	402.6	.1215	-	-
50	13.95	33.28	24.89	308.5	.1930	-	-
75	12.36	33.48	25.36	264.1	.2650	-	-
100	11.14	33.63	25.70	231.9	.3274	-	-
150	9.65	33.91	26.18	187.5	.433	-	-
200	10.06	34.31	26.42	165.7	.522	-	-
250	9.86	34.53	26.63	147.2	.601	-	-
300	(8.50)	(34.30)	(26.67)	(143.6)	(.674)	-	-

## STATION 120.45K-18 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 0500 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 301 m.  
 Weather: cloudy Sea: missing Wind: 360°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.68	33.71	23.88	403.1	.0000	-	-
10	19.68	33.68	23.86	405.6	.0406	-	-
20	19.66	33.68	23.87	405.5	.0813	-	-
30	19.63	33.69	23.88	404.3	.1220	-	-
50	15.45	33.22	24.52	343.5	.1971	-	-
75	12.53	33.49	25.34	266.5	.2738	-	-
100	11.29	33.61	25.66	235.9	.3370	-	-
150	9.65	33.97	26.23	183.0	.442	-	-
200	10.03	34.32	26.44	164.4	.530	-	-
250	9.92	34.54	26.63	147.5	.608	-	-
300	8.45	34.27	26.65	145.0	.682	-	-

## STATION 120.45K-19 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 0800 GCT Wire  
 angle: 01° Sounding: 1,100 fms. Depth of observation: 299 m.  
 Weather: clear Sea: missing Wind: 340°, force 3

0	19.64	33.68	23.87	404.3	.0000	-	-
10	19.64	33.69	23.88	403.9	.0406	-	-
20	19.64	33.70	23.89	403.5	.0811	-	-
30	19.64	33.71	23.89	403.1	.1216	-	-
50	13.75	33.21	24.88	309.7	.1932	-	-
75	12.82	33.53	25.31	269.0	.2660	-	-
100	11.44	33.67	25.68	234.2	.3293	-	-
150	9.38	33.98	26.28	178.0	.433	-	-
200	10.08	34.40	26.49	159.4	.518	-	-
250	9.86	34.54	26.64	146.5	.595	-	-
300	(8.30)	(34.28)	(26.68)	(142.0)	(.668)	-	-



## STATION 120.45K-20 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 1100 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 1,205 m.  
 Weather: cloudy Sea: missing Wind: 360°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.61	33.68	23.88	403.6	.0000	-	-
10	19.61	33.70	23.89	402.5	.0405	-	-
20	19.60	33.71	23.90	401.8	.0808	-	-
30	19.54	33.71	23.92	400.7	.1211	-	-
50	13.55	33.33	25.01	297.0	.1912	-	-
75	12.20	33.60	25.48	252.3	.2603	-	-
100	11.62	33.93	25.85	218.2	.3195	-	-
150	9.39	33.99	26.29	177.4	.419	-	-
200	10.09	34.45	26.53	155.8	.503	-	-
250	9.41	34.46	26.65	145.0	.579	-	-
300	8.43	34.34	26.71	139.6	.650	-	-
400	7.40	34.38	26.90	123.1	.783	-	-
500	7.15	34.39	26.94	120.4	.906	-	-
600	5.85	34.44	27.15	100.3	1.017	-	-
700	5.25	34.45	27.23	93.0	1.115	-	-
800	4.83	34.45	27.28	88.8	1.206	-	-
1000	4.07	34.51	27.41	77.0	1.374	-	-

## STATION 120.45K-21 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 1400 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 219 m.  
 Weather: partly cloudy Sea: moderate Wind: 340°, force 2

0	19.57	33.71	23.91	400.4	.0000	-	-
10	19.59	33.70	23.90	401.0	.0403	-	-
20	19.61	33.69	23.89	403.5	.0807	-	-
30	19.55	33.68	23.89	403.1	.1212	-	-
50	15.29	33.30	24.62	334.3	.1953	-	-
75	12.76	33.58	25.36	264.2	.2705	-	-
100	10.82	33.73	25.84	219.0	.3313	-	-
150	9.37	33.90	26.22	183.8	.433	-	-
200	9.59	34.09	26.33	174.2	.523	-	-

## STATION 120.45K-22 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 1700 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: partly cloudy Sea: moderate Wind: 340°, force 3

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.61	33.66	23.86	405.0	.0000	-	-
10	19.59	33.69	23.89	402.7	.0405	-	-
20	19.60	33.68	23.88	404.0	.0810	-	-
30	19.58	33.63	23.85	407.5	.1218	-	-
50	14.16	33.27	24.84	313.4	.1942	-	-
75	12.33	33.57	25.44	256.9	.2659	-	-
100	10.92	33.70	25.80	222.9	.3263	-	-
150	9.87	33.96	26.18	187.3	.430	-	-
200	9.53	34.20	26.43	165.1	.518	-	-
250	9.97	34.53	26.61	149.0	.597	-	-
300	(8.45)	(34.30)	(26.68)	(142.8)	(.671)	-	-

## STATION 120 45K-23 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 2000 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: partly cloudy Sea: moderate Wind: 350°, force 3

0	19.69	33.78	23.93	398.3	.0000	-	-
10	19.64	33.68	23.87	404.7	.0403	-	-
20	19.62	33.69	23.88	403.8	.0809	-	-
30	19.57	33.69	23.90	402.9	.1214	-	-
50	14.72	33.26	24.71	325.4	.1946	-	-
75	12.32	33.56	25.43	257.5	.2678	-	-
100	10.85	33.65	25.77	225.4	.3286	-	-
150	9.65	33.87	26.15	190.4	.433	-	-
200	9.55	34.26	26.47	161.0	.522	-	-
250	9.88	34.51	26.61	149.0	.600	-	-
300	(8.56)	(34.33)	(26.68)	(142.3)	(.673)	-	-

## STATION 120.45 K-24 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 15, 1950 2305 GOT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 1,206 m. Weather: cloudy  
 Sea: moderate Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.70	33.72	23.89	402.9	.0000	-	-
10	19.70	33.66	23.84	407.6	.0407	-	-
20	19.65	33.66	23.85	406.7	.0816	-	-
30	19.57	33.65	23.87	405.8	.1223	-	-
50	13.90	33.30	24.92	306.0	.1939	-	-
75	12.14	33.53	25.44	256.4	.2646	-	-
100	10.96	33.65	25.75	227.3	.3254	-	-
150	9.37	33.91	26.23	183.0	.429	-	-
200	9.54	34.28	26.49	159.4	.515	-	-
250	9.26	34.50	26.70	139.7	.590	-	-
300	8.68	34.42	26.74	137.5	.660	-	-
400	7.29	34.40	26.93	120.1	.790	-	-
500	6.52	34.40	27.03	110.9	.906	-	-
600	5.94	34.42	27.12	103.0	1.014	-	-
700	5.39	34.44	27.21	95.5	1.114	-	-
800	4.76	34.45	27.29	87.9	1.207	-	-
1000	3.96	34.61	27.50	68.3	1.365	-	-

## STATION 120.45 K-25 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 0206 OCT Wire angle: 1°  
 Sounding 1,100 fms. Depth of observation: 300 m. Weather: partly cloudy  
 Sea: missing Wind: 340°, force 4

0	19.62	33.69	23.88	403.1	.0000	-	-
10	19.62	33.69	23.88	403.4	.0405	-	-
20	19.64	33.75	23.92	399.9	.0808	-	-
30	19.63	33.75	23.93	400.0	.1210	-	-
50	14.68	33.30	24.75	321.7	.1935	-	-
75	13.00	33.60	25.33	267.2	.2675	-	-
100	11.55	33.71	25.69	233.2	.3305	-	-
150	9.77	33.95	26.19	186.4	.436	-	-
200	9.54	34.32	26.52	156.4	.522	-	-
250	9.97	34.56	26.63	146.8	.599	-	-
300	9.36	34.57	26.74	137.1	.670	-	-

## STATION 120.45K-26 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 0500 GGT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 298 m. Weather: clear  
 Sea: missing Wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (Mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.61	33.75	23.93	398.5	.0000	-	-
10	19.62	33.68	23.88	404.2	.0403	-	-
20	19.63	33.68	23.87	404.7	.0809	-	-
30	19.60	33.69	23.89	403.6	.1215	-	-
50	14.01	33.37	24.95	303.1	.1925	-	-
75	13.07	33.52	25.25	274.4	.2651	-	-
100	11.25	33.71	25.75	227.9	.3283	-	-
150	9.70	33.93	26.19	186.8	.433	-	-
200	9.96	34.31	26.44	164.0	.521	-	-
250	9.95	34.53	26.61	148.7	.600	-	-
300	(9.39)	(34.49)	(26.68)	(143.5)	(.673)	-	-

## STATION 120.45K-27 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 0800 GGT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 300 m. Weather: clear  
 Sea: rough Wind: 330°, force 4

0	19.57	33.67	23.88	403.3	.0000	-	-
10	19.60	33.68	23.88	403.7	.0405	-	-
20	19.61	33.79	23.96	396.3	.0807	-	-
30	19.52	33.79	23.98	394.4	.1204	-	-
50	14.60	33.46	24.89	308.3	.1910	-	-
75	12.56	33.58	25.40	260.4	.2625	-	-
100	11.16	33.62	25.69	233.0	.3245	-	-
150	9.44	34.09	26.36	170.8	.426	-	-
200	10.04	34.52	26.59	149.8	.507	-	-
250	9.65	34.46	26.61	148.9	.582	-	-
300	8.40	34.36	26.73	137.6	.654	-	-



## STATION 120.45K-30 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 1705 GOT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 299 m. Weather: cloudy  
 Sea: moderate Wind: 360°, force 4

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^2\delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.56	33.82	24.00	392.2	.0000	-	-
10	19.55	33.71	23.92	400.3	.0398	-	-
20	19.55	33.74	23.94	398.4	.0799	-	-
30	19.52	33.75	23.95	397.3	.1198	-	-
50	14.85	33.37	24.77	320.0	.1919	-	-
75	12.70	33.48	25.30	270.4	.2661	-	-
100	11.08	33.77	25.82	220.5	.3279	-	-
150	9.68	33.99	26.24	182.0	.429	-	-
200	9.88	34.41	26.53	155.9	.514	-	-
250	9.73	34.54	26.66	144.3	.590	-	-
300	(9.11)	(34.47)	(26.71)	(140.5)	(.661)	-	-

## STATION 120.45K-31 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 2000 GOT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 301 m. Weather: cloudy  
 Sea: missing Wind: 360°, force 4

0	19.61	33.71	23.90	401.4	.0000	-	-
10	19.57	33.68	23.89	402.9	.0404	-	-
20	19.55	33.69	23.90	402.0	.0808	-	-
30	19.53	33.69	23.91	401.9	.1211	-	-
50	14.59	33.37	24.82	314.7	.1932	-	-
75	12.15	33.49	25.41	259.5	.2653	-	-
100	10.76	33.68	25.81	221.7	.3259	-	-
150	9.55	33.96	26.24	182.2	.428	-	-
200	9.47	34.24	26.47	161.2	.514	-	-
250	9.98	34.54	26.62	148.4	.592	-	-
300	9.09	34.40	26.65	145.3	.666	-	-

## STATION 120.45K-32 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 2300 GCT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 1,207 m. Weather: cloudy  
 Sea: very rough Wind: 360°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.57	33.68	23.89	402.6	.0000	-	-
10	19.58	33.71	23.91	401.0	.0403	-	-
20	19.55	33.69	23.90	402.0	.0807	-	-
30	19.50	33.56	23.82	410.6	.1214	-	-
50	14.93	33.46	24.82	315.1	.1944	-	-
75	11.95	33.54	25.49	252.2	.2657	-	-
100	10.91	33.66	25.77	225.7	.3258	-	-
150	9.64	34.07	26.31	175.5	.427	-	-
200	9.44	34.22	26.46	162.2	.512	-	-
250	9.33	34.44	26.65	145.2	.589	-	-
300	8.99	34.45	26.71	140.1	.661	-	-
400	6.99	34.27	26.87	125.5	.795	-	-
500	6.76	34.42	27.02	112.7	.915	-	-
600	6.02	34.47	27.15	100.3	1.023	-	-
700	5.31	34.51	27.27	89.3	1.118	-	-
800	4.78	34.58	27.39	78.6	1.203	-	-
1000	3.95	34.45	27.38	80.0	1.363	-	-

## STATION 120.45K-33 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 0200 GCT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 298 m. Weather: partly cloudy  
 Sea: very rough Wind: 340°, force 5

0	19.51	33.75	23.96	396.0	.0000	-	-
10	19.50	33.62	23.86	405.6	.0402	-	-
20	19.53	33.67	23.89	403.0	.0808	-	-
30	19.30	33.68	23.96	397.0	.1210	-	-
50	15.11	33.60	24.89	308.6	.1919	-	-
75	12.19	33.53	25.43	257.3	.2630	-	-
100	11.42	33.69	25.70	232.3	.3246	-	-
150	9.60	34.03	26.28	177.8	.428	-	-
200	9.89	34.38	26.51	157.7	.512	-	-
250	9.99	34.54	26.61	148.6	.589	-	-
300	(8.89)	(34.43)	(26.71)	(140.0)	(.662)	-	-

## STATION 120.45K-34 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 0500 GCT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 299 m. Weather: partly cloudy  
 Sea: very rough Wind: 340°, force 5-6

Depth (m)	T (°c)	S (‰)	$n_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.49	33.73	23.95	397.0	.0000	-	-
10	19.48	33.66	23.90	402.2	.0401	-	-
20	19.49	33.64	23.88	404.2	.0806	-	-
30	19.50	33.63	23.87	405.5	.1212	-	-
50	15.63	33.26	24.51	344.4	.1966	-	-
75	12.76	33.35	25.18	281.1	.2752	-	-
100	11.50	33.63	25.64	238.2	.3405	-	-
150	9.67	33.94	26.20	185.6	.447	-	-
200	9.98	34.29	26.42	165.8	.536	-	-
250	9.98	34.52	26.60	149.9	.615	-	-
300	( 9.00)	(34.49)	(26.74)	(137.3)	(.688)	-	-

## STATION 120.45K-35 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 0800 GCT Wire angle: 0°  
 Sounding: 1,100 fms. Depth of observation: 298 m. Weather: clear  
 Sea: high Wind: 340°, force 6

0	19.43	33.71	23.95	397.0	.0000	-	-
10	19.42	33.73	23.97	395.6	.0398	-	-
20	19.43	33.69	23.93	399.1	.0797	-	-
30	19.40	33.50	23.80	412.5	.1204	-	-
50	15.11	33.38	24.72	324.7	.1945	-	-
75	12.66	33.53	25.34	266.0	.2688	-	-
100	10.96	33.73	25.81	221.4	.3301	-	-
150	9.47	34.12	26.37	169.1	.428	-	-
200	9.87	34.43	26.55	153.7	.510	-	-
250	9.75	34.53	26.65	145.4	.585	-	-
300	( 9.00)	(34.33)	(26.61)	(149.8)	(.659)	-	-



## STATION 120.45K-36 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°42'N 115°34'W November 17, 1950 1113 GCT Wire  
 angle: 1° Sounding: 1,100 fms. Depth of observation: 1,208 m.  
 Weather: clear Sea: very rough Wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.41	33.66	23.91	400.1	.0000	-	-
10	19.40	33.71	23.95	396.6	.0400	-	-
20	19.40	33.75	23.99	394.0	.0797	-	-
30	19.39	33.75	23.99	394.1	.1192	-	-
50	14.96	33.55	24.88	309.1	.1899	-	-
75	12.20	33.48	25.39	261.2	.2616	-	-
100	10.92	33.60	25.72	230.3	.3234	-	-
150	9.65	34.00	26.25	180.8	.427	-	-
200	9.53	34.28	26.49	159.2	.513	-	-
250	9.70	34.53	26.66	144.6	.589	-	-
300	8.93	34.40	26.68	142.8	.661	-	-
400	7.01	34.34	26.92	120.6	.794	-	-
500	6.72	34.46	27.05	109.2	.910	-	-
600	5.90	34.41	27.12	103.2	1.017	-	-
700	5.25	34.41	27.20	96.0	1.118	-	-
800	4.76	34.43	27.27	89.4	1.211	-	-
1000	4.05	34.49	27.40	78.2	1.381	-	-

## STATION 120.45K-37 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 1400 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: clear Sea: very rough Wind: 360°, force 5

0	19.35	33.64	23.91	400.1	.0000	-	-
10	19.36	33.68	23.94	397.8	.0401	-	-
20	19.36	33.59	23.87	404.6	.0803	-	-
30	19.35	33.58	23.87	405.5	.1210	-	-
50	15.05	33.57	24.88	309.5	.1929	-	-
75	12.23	33.48	25.39	261.7	.2647	-	-
100	10.78	33.60	25.75	227.9	.326	-	-
150	9.50	34.02	26.29	176.9	.428	-	-
200	9.79	34.32	26.48	160.5	.513	-	-
250	9.69	34.42	26.57	152.5	.592	-	-
300	(9.07)	(34.47)	(26.71)	(139.9)	(.666)	-	-

## STATION 120.45K-38 (Interpolated Value at Standard Depths)

E.W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 1700 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 298 m.  
 Weather: clear Sea: very rough Wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P (µg at/L)
0	19.35	33.66	23.93	398.7	.0000	-	-
10	19.33	33.62	23.90	401.4	.0402	-	-
20	19.33	33.67	23.94	398.1	.0803	-	-
30	19.35	33.68	23.94	398.2	.1203	-	-
50	15.40	33.19	24.51	344.6	.1949	-	-
75	12.18	33.42	25.35	265.2	.2716	-	-
100	10.95	33.62	25.73	229.3	.3338	-	-
150	9.69	33.94	26.20	185.9	.438	-	-
200	9.87	34.36	26.49	158.8	.525	-	-
250	9.78	34.51	26.63	147.4	.602	-	-
300	(9.23)	(34.40)	(26.63)	(147.6)	(.677)	-	-

## STATION 120.45K-39 (Interpolated Values at Standard Depths)

E.W. SCRIPPS: 27°45' 115°34'W November 17, 1950 2000 GCT Wire  
 angle: 0° Sounding: 1,100 fms. Depth of observation: 301 m.  
 Weather: partly cloudy Sea: high Wind: 330°, force 6

0	19.36	33.60	23.88	403.3	.0000	-	-
10	19.33	33.69	23.96	396.3	.0401	-	-
20	19.30	33.69	23.97	395.9	.0799	-	-
30	19.30	33.69	23.97	396.3	.1197	-	-
50	15.25	33.17	24.53	343.0	.1940	-	-
75	12.36	33.48	25.36	264.1	.2703	-	-
100	11.00	33.57	25.68	233.9	.3329	-	-
150	9.72	33.97	26.22	184.2	.438	-	-
200	9.45	34.24	26.47	160.9	.525	-	-
250	9.87	34.49	26.60	150.3	.603	-	-
300	9.17	34.47	26.70	141.5	.677	-	-

## STATION 120.45 K-40 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 17, 1950 2304 GCT  
 Wire angle: 0° Sounding: 1,100 fms. Depth of observation: 296 m.  
 Weather: clear Sea: high Wind: 340°, force 6

Depth (m)	T (°C)	S (%)	$\sigma_t$ (mg/cm <sup>3</sup> )	$10^5 \delta$	$\Delta D$ (dyn.m.)	O <sub>2</sub> (ml/L)	PO <sub>4</sub> -P ( $\mu$ g at/L)
0	19.38	33.66	23.92	399.4	.0000	-	-
10	19.35	33.64	23.91	400.4	.0402	-	-
20	19.21	33.65	23.96	396.6	.0802	-	-
30	19.13	33.66	23.99	394.3	.1199	-	-
50	15.23	33.60	24.86	311.1	.1908	-	-
75	12.75	33.53	25.32	267.7	.2635	-	-
100	11.15	33.61	25.69	233.5	.3266	-	-
150	9.75	34.06	26.28	178.0	.430	-	-
200	9.86	34.32	26.46	161.6	.516	-	-
250	9.85	34.47	26.58	151.5	.594	-	-
300	(9.07)	(34.48)	(26.72)	(139.1)	(.668)	-	-



## E.W. SCRIPPS: STATION 145K-12

Depth (m)	T (°C)	S (‰)
0	19.52	33.69
10	19.53	33.69
25	19.47	33.70
50	13.93	33.44
74	11.78	33.50
100	11.26	33.73
124	9.55	33.96

## E.W. SCRIPPS: STATION 145K-13

Depth (m)	T (°C)	S (‰)
0	19.50	33.71
10	19.49	33.71
25	19.50	33.69
49	14.21	33.40
75	12.28	33.51
100	11.28	33.78
124	10.32	33.95
154	9.52	33.98
202	9.85	34.34
249	9.63	34.47
298	10.92	34.34

## E.W. SCRIPPS: STATION 145K-14

0	19.52	33.68
10	19.49	33.68
25	19.49	33.69
50	14.04	33.33
74	12.10	33.53
98	11.14	33.71
123	10.96	34.00
153	9.76	33.92
202	9.35	34.16
250	9.75	34.52
300	8.42	34.33

## E.W. SCRIPPS: STATION 145K-15

0	19.75	33.68
10	19.51	33.77
25	19.49	33.75
50	13.74	33.35
75	14.92	33.75
99	13.01	33.39
225	9.94	-
311	8.20	34.45
384	7.57	34.38
446	7.05	34.42
611	5.58	34.52
779	4.76	34.56

## E.W. SCRIPPS: STATION 145K-16

0	19.70	33.78
10	19.51	33.75
25	19.50	33.78
50	14.03	33.28
74	12.36	33.60
98	11.16	33.73
152	9.70	34.07
201	9.72	34.38
298	8.58	34.43
401	7.72	34.49
498	6.74	34.51
602	5.92	34.43
804	4.77	34.52
1003	4.08	34.55
1207	3.48	34.64

## E.W. SCRIPPS: STATION 145K-17

0	19.70	33.69
10	19.63	33.69
25	19.53	33.68
50	13.95	33.28
75	12.36	33.48
99	11.15	33.63
123	11.47	34.00
153	9.66	33.91
201	10.06	34.31
249	9.89	34.49
298	8.53	34.31

## E.W. SCRIPPS: STATION 145K-18

Depth (m)	T (°C)	S (‰)
0	19.68	33.71
10	19.68	33.68
25	19.64	33.69
50	15.45	33.22
75	12.53	33.49
99	11.29	33.60
123	10.99	33.93
154	9.68	33.97
202	10.06	34.34
252	9.91	34.49
301	8.45	34.27

## E.W. SCRIPPS: STATION 145K-19

Depth (m)	T (°C)	S (‰)
0	19.64	33.68
10	19.64	33.69
25	19.65	33.71
51	13.64	33.21
76	12.80	33.53
100	11.44	33.67
125	10.29	33.89
154	9.84	34.00
202	10.08	34.40
250	9.88	34.52
299	8.30	34.29

## E.W. SCRIPPS: STATION 145K-20

0	19.61	33.68
10	19.61	33.70
25	19.56	33.71
50	13.55	33.33
75	12.20	33.60
99	11.66	33.93
154	9.58	34.00
202	10.08	34.45
300	8.44	34.34
402	7.39	34.38
499	7.33	34.39
567	6.14	-
599	5.86	34.43
805	4.83	34.45
1002	4.08	34.51
1205	3.52	34.53

## E.W. SCRIPPS: STATION 145K-21

0	19.57	33.71
10	19.59	33.70
25	19.61	33.69
50	15.29	33.30
75	12.76	33.58
125	10.00	33.82
171	9.45	33.95
219	9.64	34.25

## E.W. SCRIPPS: STATION 145K-22

0	19.60	33.66
10	19.59	33.69
25	19.60	33.66
50	14.16	33.27
75	12.33	33.57
99	10.93	33.70
123	10.38	33.72
152	9.82	33.98
199	9.54	34.20
248	9.98	34.52
298	8.52	34.31

## E.W. SCRIPPS: STATION 145K-23

0	19.69	33.78
10	19.64	33.68
25	19.61	33.69
50	14.72	33.26
75	12.32	33.56
100	10.85	33.65
124	10.30	33.78
153	9.58	33.89
202	9.58	34.27
250	9.88	34.49
298	8.65	34.37

## E.W. SCRIPPS: STATION 145K-24

Depth (m)	T (°C)	S (‰)
0	19.70	33.72
10	19.70	33.66
25	19.62	33.66
50	13.90	33.30
75	12.14	33.53
101	10.92	33.65
155	9.37	33.96
203	9.55	34.31
301	8.68	34.42
404	7.24	34.40
604	5.92	34.42
805	4.73	34.45
1002	3.96	34.61
1206	3.46	34.54

## E.W. SCRIPPS: STATION 145K-25

Depth (m)	T (°C)	S (‰)
0	19.62	33.69
10	19.62	33.69
25	19.64	33.75
50	14.68	33.30
75	13.00	33.60
99	11.60	33.71
123	10.37	33.68
152	9.72	33.98
202	9.60	34.34
251	9.99	34.56
300	9.36	34.57

## E.W. SCRIPPS: STATION 145K-26

0	19.61	33.75
10	19.62	33.68
25	19.63	33.69
50	14.01	33.37
75	13.07	33.52
99	11.38	33.71
123	10.21	33.81
153	9.66	33.95
201	9.96	34.31
249	9.97	34.51
298	9.43	34.49

## E.W. SCRIPPS: STATION 145K-27

0	19.57	33.67
10	19.60	33.68
25	19.59	33.79
50	14.60	33.46
75	12.56	33.58
100	11.16	33.62
124	10.00	33.95
153	9.43	34.11
202	10.04	34.54
251	9.64	34.46
300	8.40	34.36

## E.W. SCRIPPS: STATION 145K-28

0	19.57	33.78
10	19.58	33.79
25	19.58	33.69
50	14.64	33.46
75	12.88	33.64
100	10.88	33.69
154	9.44	34.05
204	9.93	34.47
302	8.93	34.43
404	7.75	34.42
501	6.70	34.43
603	5.77	34.48
804	4.75	34.56
1000	4.06	34.56
1205	3.48	34.54

## E.W. SCRIPPS: STATION 145K-29

0	19.55	33.82
10	19.55	33.80
25	19.55	33.75
50	16.27	33.57
75	12.68	33.55
100	11.19	33.68
124	10.13	33.86
153	9.60	34.09
203	9.92	34.49
251	9.56	34.51
302	9.20	34.51

## E.W. SCRIPPS: STATION 145K-30

Depth (m)	T (°C)	S (‰)
0	19.56	33.82
10	19.55	33.71
25	19.56	33.75
50	14.85	33.37
75	12.70	33.48
99	11.09	33.77
123	10.13	33.84
153	9.63	34.02
201	9.88	34.42
249	9.74	34.51
299	9.12	34.47

## E.W. SCRIPPS: STATION 145K-31

Depth (m)	T (°C)	S (‰)
0	19.61	33.71
10	19.57	33.68
25	19.55	33.69
50	14.59	33.37
76	12.10	33.49
100	10.76	33.68
124	10.13	33.85
153	9.50	33.98
202	9.49	34.25
251	9.98	34.51
301	9.08	34.40

## E.W. SCRIPPS: STATION 145K-32

0	19.57	33.68
10	19.58	33.71
25	19.52	33.64
50	14.93	33.46
76	11.94	33.55
101	10.89	33.66
155	9.53	34.09
204	9.46	34.23
302	8.98	34.43
404	6.97	34.27
502	6.75	34.42
605	5.98	34.47
807	4.75	34.58
1003	3.94	34.45
1207	3.44	34.61

## E.W. SCRIPPS: STATION 145K-33

0	19.51	33.75
10	19.50	33.62
25	19.53	33.68
50	15.11	33.60
75	12.19	33.53
99	11.44	33.69
123	10.18	33.71
152	9.59	34.04
200	9.89	34.38
249	9.99	34.52
298	8.93	34.43

## E.W. SCRIPPS: STATION 145K-34

0	19.49	33.73
10	19.48	33.66
25	19.50	33.64
50	15.63	33.26
74	12.76	33.35
98	11.53	33.62
122	10.23	33.80
151	9.64	33.94
200	9.98	34.29
250	9.98	34.51
299	9.01	34.49

## E.W. SCRIPPS: STATION 145K-35

0	19.43	33.71
10	19.42	33.73
25	19.42	33.64
50	15.11	33.38
75	12.66	33.53
100	10.96	33.73
125	10.02	33.94
203	9.92	34.43
250	9.75	34.46
298	9.03	34.34



## E.W. SCRIPPS: STATION 145K-36

Depth (m)	T (°C)	S (‰)
0	19.41	33.66
10	19.40	33.71
25	19.40	33.75
50	14.96	33.55
76	12.11	33.48
100	10.92	33.60
154	9.55	34.02
301	8.92	34.40
404	7.00	34.34
502	6.72	34.47
605	5.86	34.41
806	4.73	34.43
1003	4.04	34.49
1208	3.46	34.52

## E.W. SCRIPPS: STATION 145K-37

Depth (m)	T (°C)	S (‰)
0	19.35	33.64
10	19.36	33.68
25	19.37	33.58
50	15.05	33.57
75	12.23	33.48
100	10.78	33.60
125	9.91	33.91
154	9.47	34.04
203	9.81	34.33
250	9.69	34.42
298	9.10	34.47

## E.W. SCRIPPS: STATION 145K-38

0	19.35	33.66
10	19.33	33.62
25	19.35	33.68
50	15.40	33.19
75	12.18	33.42
100	10.95	33.62
126	10.15	33.82
155	9.60	33.96
202	9.88	34.36
249	9.79	34.40
298	9.26	34.40

## E.W. SCRIPPS: STATION 145K-39

0	19.36	33.60
10	19.33	33.69
25	19.31	33.69
50	15.25	33.17
74	12.36	33.48
98	11.01	33.57
123	10.17	33.77
152	9.70	33.98
202	9.46	34.25
251	9.87	34.49
301	9.16	34.47

## E.W. SCRIPPS: STATION 145K-40

0	19.38	33.66
10	19.35	33.64
25	19.16	33.66
50	15.23	33.60
74	12.84	33.53
99	11.15	33.61
123	10.23	33.80
151	9.76	34.07
198	9.85	34.32
247	9.88	34.46
296	9.16	34.48

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