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

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

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

CRUISE 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

CONTENTS

List of Figures ii

Introduction iii

Personnel iv

Tabulated Data for Interpolated Depths 1

Tabulated Data for Observed Depths, Anchor Stations 69

Distribution List 75

FIGURES

1. MLR Cruise 20. Station Positions

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

3. Horizontal Distribution of Temperature at the Surface

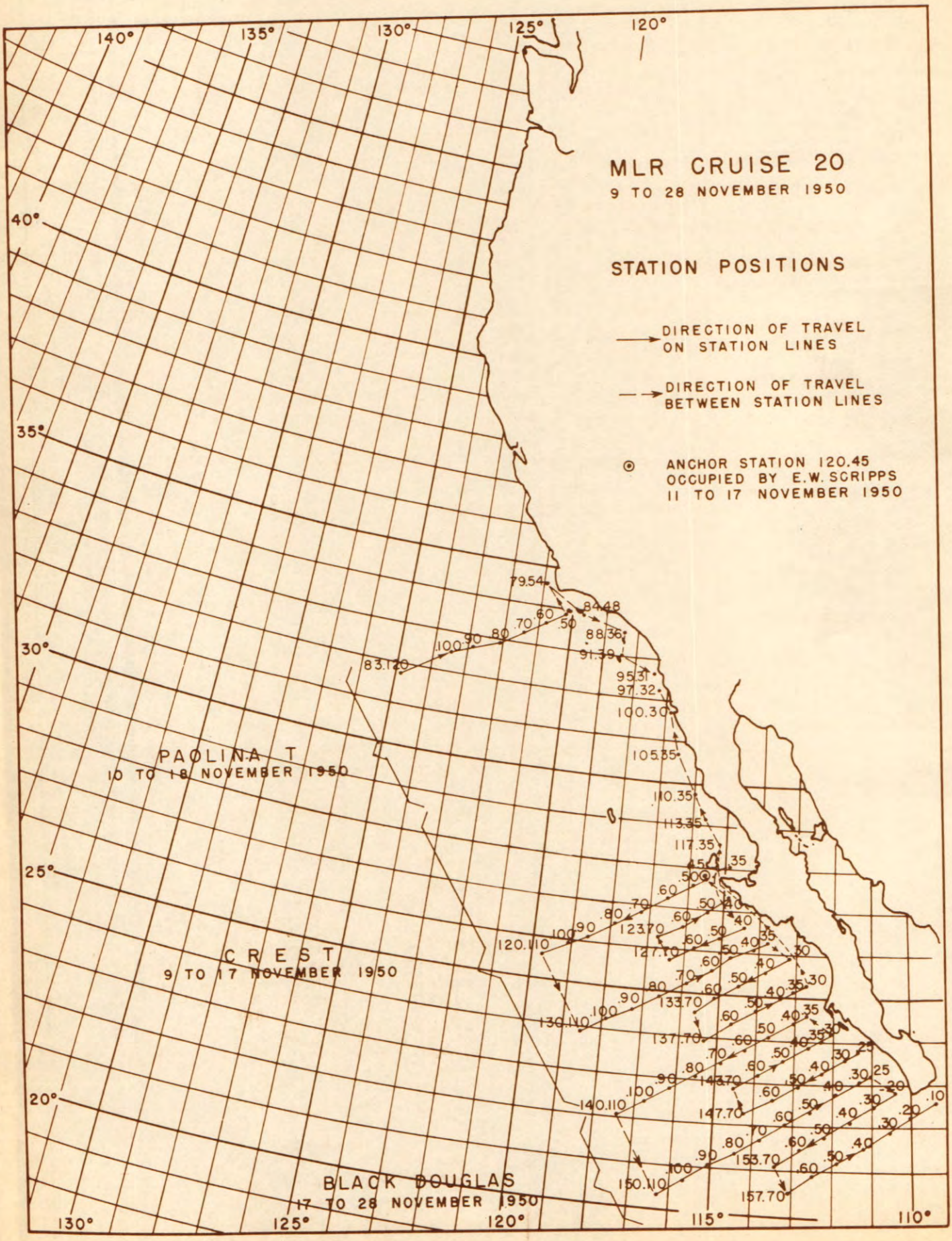
4. Horizontal Distribution of Salinity at the Surface

5. Horizontal Distribution of Temperature at 30 Meters

6. Time Variation of Dynamic Height Anomalies, E. W. SCRIPPS Anchor Stations

7. Depth of Isohalines, E. W. SCRIPPS Anchor Stations

8. Depth of Isotherms, E. W. SCRIPPS Anchor Stations


MLR CRUISE 20
9 TO 28 NOVEMBER 1950
STATION POSITIONS
DIRECTION OF TRAVEL ON STATION LINES
DIRECTION OF TRAVEL BETWEEN STATION LINES
ANCHOR STATION 120.45 OCCUPIED BY E.W. SCRIPPS 11 TO 17 NOVEMBER 1950
PAOLINA T
10 TO 18 NOVEMBER 1950
CREST
9 TO 17 NOVEMBER 1950
BLACK DOUGLAS
17 TO 28 NOVEMBER 1950
140°
135°
130°
125°
120°
115°
110°
40°
35°
30°
25°
20°
79.54
84.48
88.36
91.39
83.120
95.31
97.32
100.30
105.35
110.35
113.35
117.35
120.110
123.70
127.70
130.110
133.70
137.70
140.110
143.70
147.70
150.110
153.70
157.70

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, Scripps Institution
Eckles, Howard H., Marine Biologist
Colter, John C., Chemistry Aid
Counts, Robert C., Marine Biologist
Dougherty, Jack B., Marine Biologist
Widrig, Theodore M., Statistician
Rockman, John N., Marine Technician, Chemical, Scripps Institution

MV CREST

Horrer, Paul L., Associate in Oceanography
Edwards, Frank H., Jr., Marine Technician
Herreshoff, Karl F., Marine Technician, Chemical
Koide, Minoru, Marine Technician, Chemical
Mao, Han-Lee, Research Assistant
Shogren, Howard A., Marine Technician, Chemical
Folsom, Theodore R., Assistant in Oceanography
Kramer, David, Marine Biologist, U.S. Fish and Wildlife Service

MV E. W. SCRIPPS

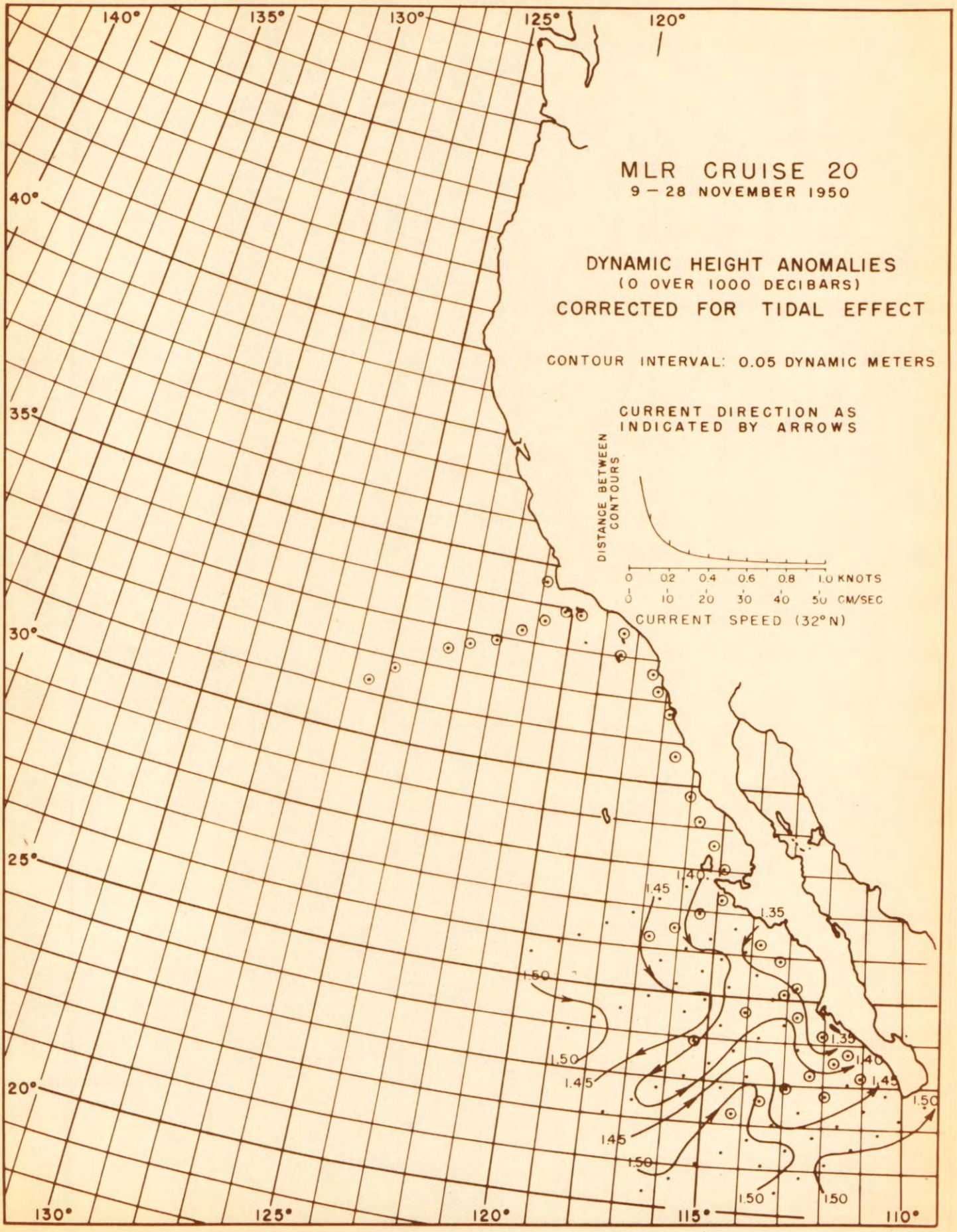
Clark, Peter S., Senior Marine Technician
Gossett, David A., Marine Technician
Imm, Henry L., Jr., Marine Technician
Reid, Joseph L., Jr., Research Assistant
Walker, Earl T., Marine Biologist, U.S. Fish and Wildlife Service

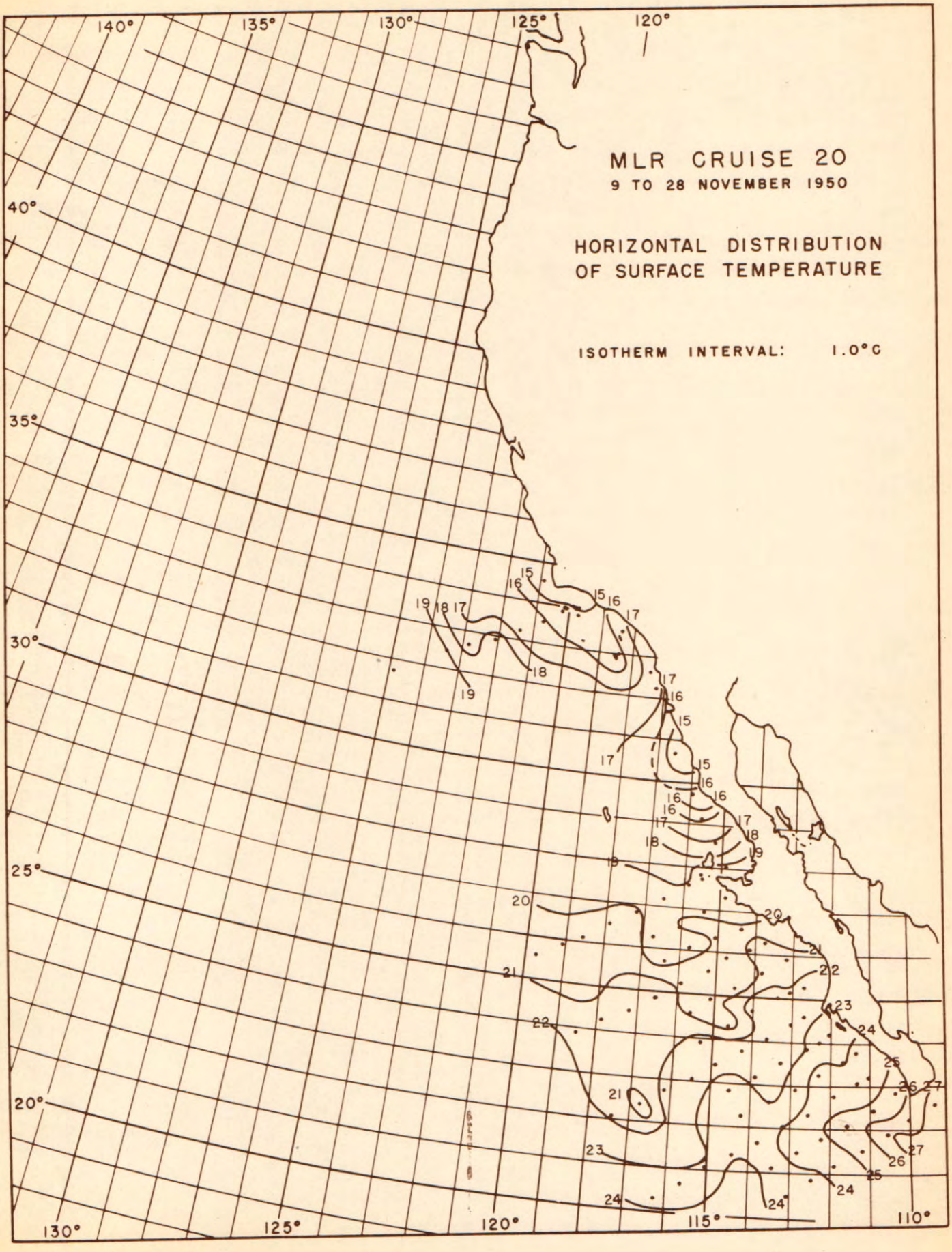
MV PAOLINA-T

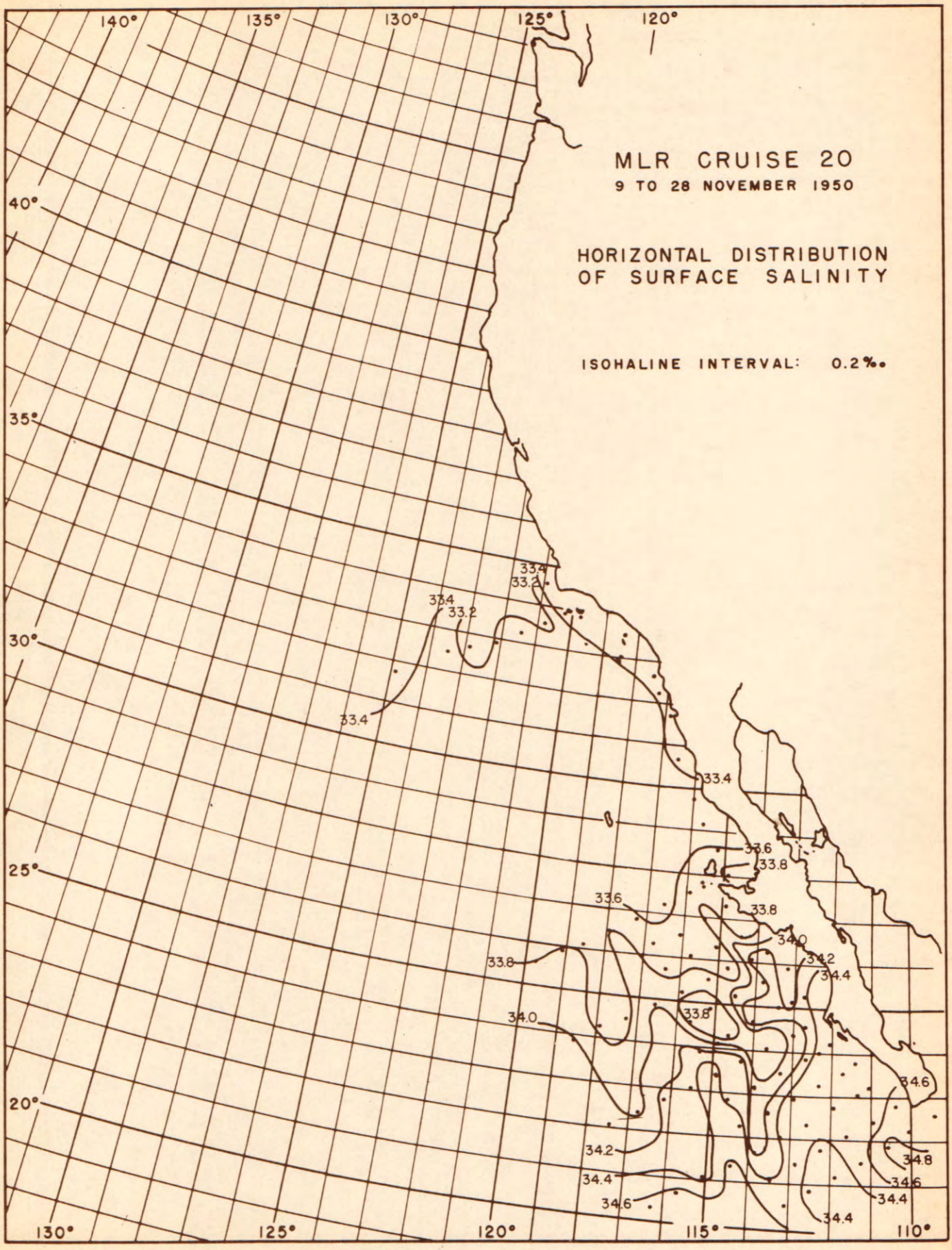
Sampson, Robert K., Jr., Senior Marine Technician
Johnson, Norman W., Marine Technician
Sargent, Marston C., Assistant Professor of Oceanography
Riley, Gordon A., Bingham Oceanography Laboratory, Yale University

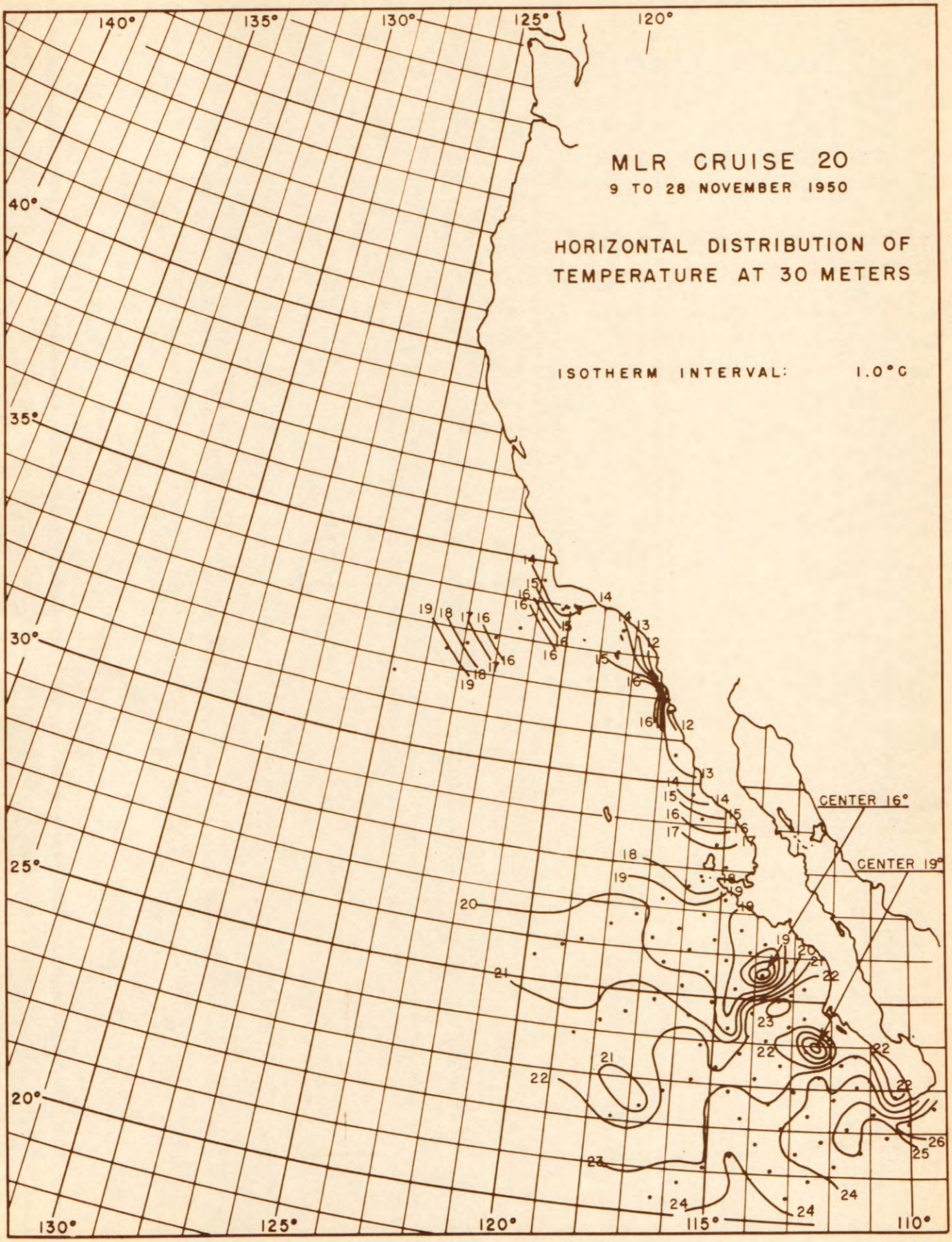
PERSONNEL PARTICIPATING IN PREPARATION OF DATA

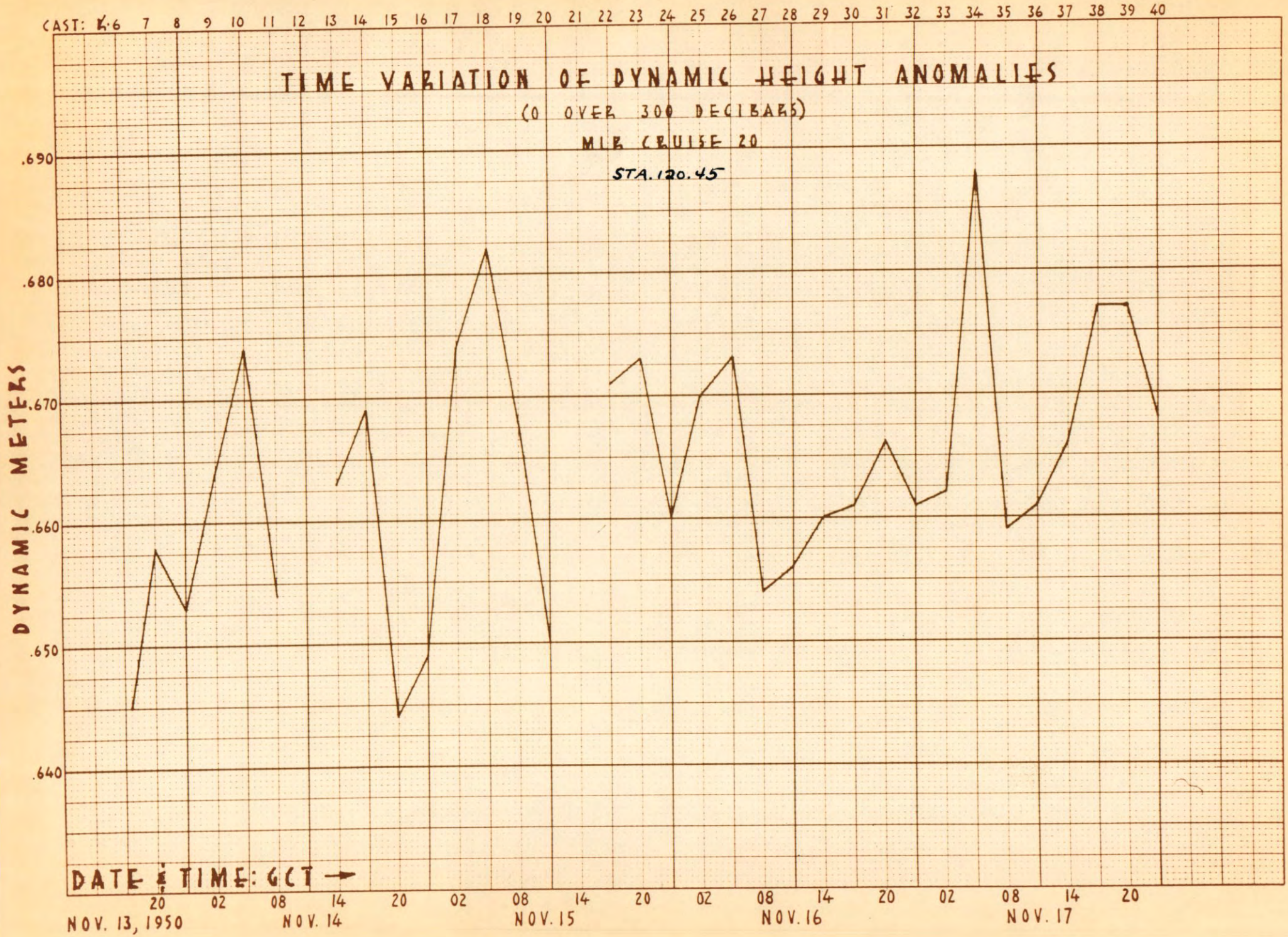
Barney, Ruth M., Stenographer
Barstow, Mary C., Laboratory Technician
Beckwith, Warren W., Jr., Senior Marine Technician
Berkey, Max L., Jr., Marine Technician
Brown, Curthie F., Engineering Aid
Browne, Geneva S., Engineering Aid
Cassady, Rose M., Engineering Aid
Cunningham, Leonard M., Jr., Senior Marine Technician
Eby, Lorraine L., Engineering Aid
Gilkey, Robert W., Marine Technician
Gossett, David A., Senior Marine Technician
Haddow, Robert W., Marine Technician
Haulman, Doris V., Engineering Aid
Herreshoff, Karl F., Marine Technician, Chemical
Hutchins, Dorsey M., Typist-Clerk
Jellison, Donald L., Engineering Aid
Kaatz, E. James, Marine Technician, Chemical
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


140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
MLR CRUISE 20
9 – 28 NOVEMBER 1950
DYNAMIC HEIGHT ANOMALIES
(0 OVER 1000 DECIBARS)
CORRECTED FOR TIDAL EFFECT
CONTOUR INTERVAL: 0.05 DYNAMIC METERS
CURRENT DIRECTION AS INDICATED BY ARROWS
DISTANCE BETWEEN CONTOURS
0 0.2 0.4 0.6 0.8 1.0 KNOTS
0 10 20 30 40 50 CM/SEC
CURRENT SPEED (32°N)
1.40
1.45
1.35
1.50
1.50
1.45
1.35
1.40
1.45
1.50
1.45
1.50
1.50
1.50

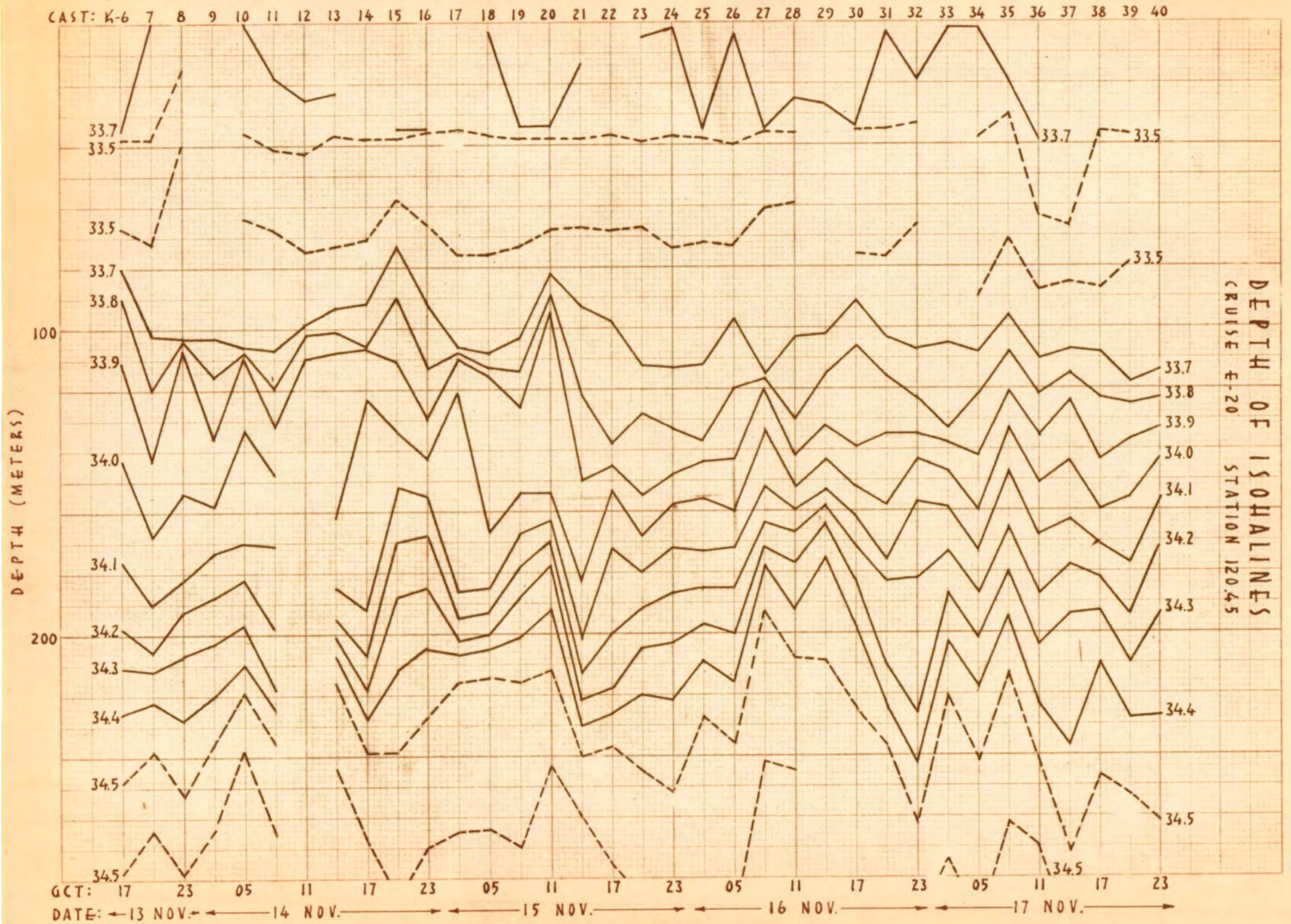

MLR CRUISE 20
9 TO 28 NOVEMBER 1950
HORIZONTAL DISTRIBUTION
OF SURFACE TEMPERATURE
ISOTHERM INTERVAL: 1.0°C
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°

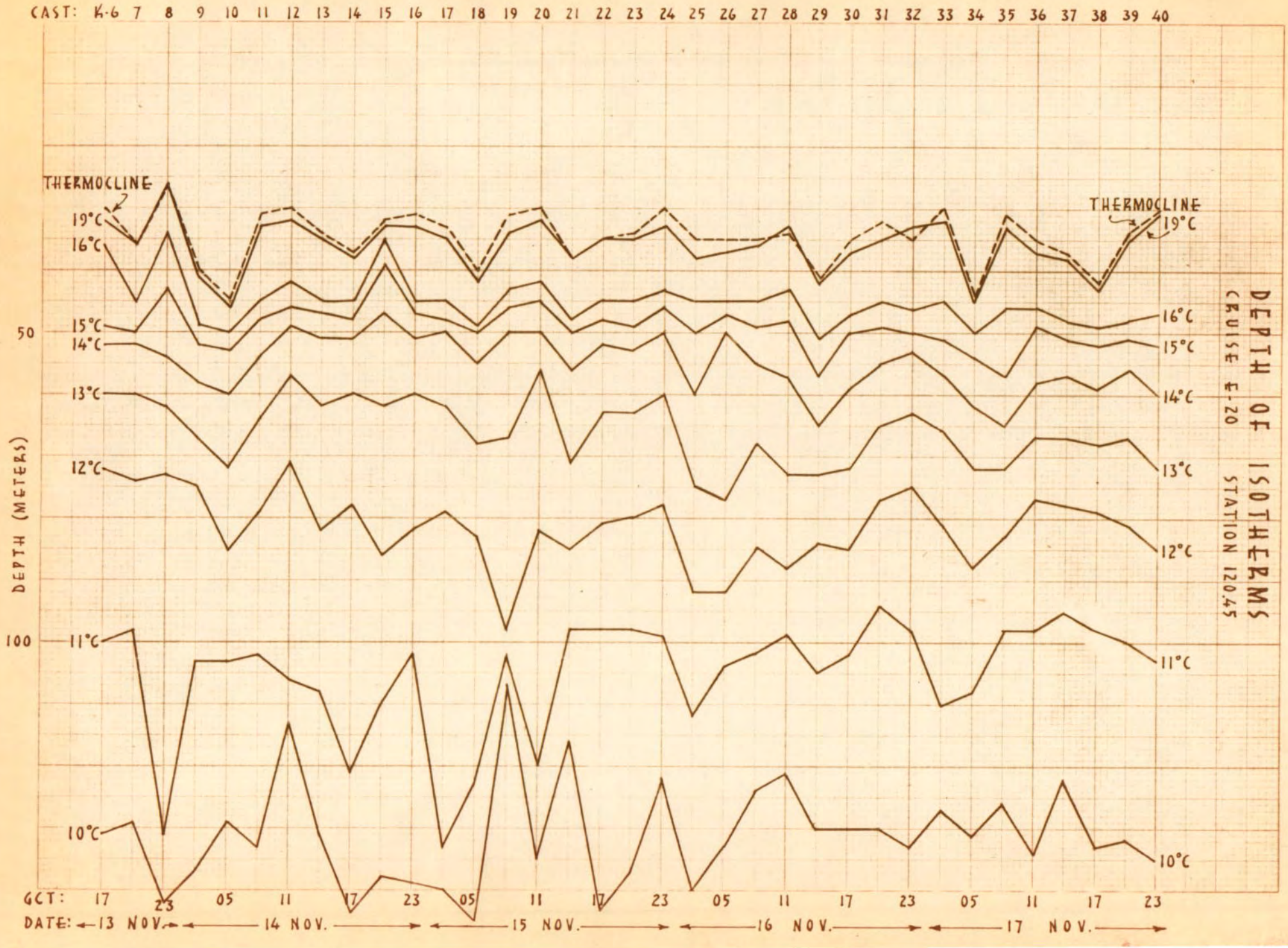

MLR CRUISE 20
9 TO 28 NOVEMBER 1950
HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY
ISOHALINE INTERVAL: 0.2‰
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
33.4
33.2
33.4
33.2
33.4
33.4
33.6
33.8
33.6
33.8
34.0
34.2
34.4
33.8
33.8
34.0
34.6
34.2
34.4
34.6
34.8
34.6
34.4
34.4


MLR CRUISE 20
9 TO 28 NOVEMBER 1950
HORIZONTAL DISTRIBUTION OF
TEMPERATURE AT 30 METERS
ISOTHERM INTERVAL: 1.0°C
CENTER 16°
CENTER 19°
140°
135°
130°
125°
120°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°


CAST: K-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 →
20 02 08 14 20 02 08 14 20 02 08 14 20 02 08 14 20
NOV. 13, 1950
NOV. 14
NOV. 15
NOV. 16
NOV. 17

NO. 340R-20 DIETZGEN GRAPH PAPER
20 X 20 PER INCH
EUGENE DIETZGEN CO.
MADE IN U.S.A.




CAST: K-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
THERMOCLINE
19°C
16°C
15°C
14°C
13°C
12°C
11°C
10°C
THERMOCLINE
19°C
16°C
15°C
14°C
13°C
12°C
11°C
10°C
50
100
DEPTH (METERS)
DEPTH OF ISOTHERMS
CRUISE E-120 STATION 120.45
GCT: 17 23 05 11 17 23 05 11 17 23 05 11 17 23 05 11 17 23
DATE: ← 13 NOV. → ← 14 NOV. → ← 15 NOV. → ← 16 NOV. → ← 17 NOV. →

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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	15.35	33.46	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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml?L)	PO_4-P (µg 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 95.31 (Interpolated Values at Standard Depths)

PAOLINA-T: 32°40'N 117°26'W November 18, 1950 1701 GCT Wire angle: 0° Sounding: 225 fms. Depth of observation: 313 m.
Weather: fog in patches Sea: rough Wind: 120°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^7\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	17.10	-	-	-	-	-	-
10	17.03	-	-	-	-	-	-
20	14.25	-	-	-	-	-	-
30	12.00	-	-	-	-	-	-
50	11.15	-	-	-	-	-	-
75	10.43	-	-	-	-	-	-
100	10.16	-	-	-	-	-	-
150	9.35	-	-	-	-	-	-
200	8.85	-	-	-	-	-	-
250	8.46	-	-	-	-	-	-
300	8.12	-	-	-	-	-	-

STATION 83.60 (Interpolated Values at Standard Depths)

PAOLINA-T: 33°33'N 120°48'W November 12, 1950 1400 GCT Wire angle: 13° Sounding: 2,005 fms. Depth of observation: 1,179 m.
Weather: clear Sea: moderate Wind: 340°, force 1

0	(16.05)	(33.16)	(24.34)	(359.2)	(.0000)	-	-
10	16.04	33.15	24.34	360.0	.0361	-	-
20	16.05	33.11	24.30	363.5	.0724	-	-
30	16.06	33.09	24.29	365.4	.1090	-	-
50	11.85	33.05	25.12	285.9	.1745	-	-
75	9.49	33.01	25.50	250.1	.2418	-	-
100	9.20	33.36	25.82	220.1	.3010	-	-
150	8.58	33.85	26.30	175.4	.401	-	-
200	7.85	34.00	26.53	154.4	.484	-	-
250	7.25	34.10	26.70	139.4	.558	-	-
300	6.82	34.16	26.80	129.8	.625	-	-
400	6.14	34.25	26.96	115.5	.749	-	-
500	5.54	34.28	27.06	106.9	.861	-	-
600	5.03	34.29	27.13	101.0	.966	-	-
700	4.66	34.34	27.21	93.8	1.064	-	-
800	4.36	34.41	27.30	86.0	1.155	-	-
1000	3.84	34.51	27.43	74.2	1.317	-	-

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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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	10.93	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 (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	16.50	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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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	.785	.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 (‰)	σ^t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (m)	T (°C)	S (‰)	σ^t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.38	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 (‰)	σ^t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ^t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.00	33.75	23.83	408.2	.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	108.9	.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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn m)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 ?	.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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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	.889	.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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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	1.084	.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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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	.0448	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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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
50	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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 140.70 (Interpolated Value at Standard Depths)

BLACK DOUGLAS: 23°25'N 114°55'W November 21, 1950 0920 GCT Wire angle: 6° Sounding: 2,140 fms. Depth of observation: 1,193 m.
Weather: partly cloudy Sea: rough Wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	22.86	34.42	23.56	434.4	.0000	3.97	.35
10	22.85	34.41	23.55	435.2	.0437	3.97	.34
20	22.84	34.42	23.56	434.6	.0873	4.01	.35
30	22.87	34.43	23.56	435.1	.1310	4.03	.37
50	17.84	33.66	24.31	364.4	.2113	4.04	.40
75	14.62	33.57	24.97	301.4	.2950	4.10	.58
100	12.70	33.67	25.44	257.1	.3652	3.22	1.07
150	11.20	34.12	26.07	198.0	.480	1.60	2.33
200	10.40	34.43	26.46	162.5	.571	1.37	2.59
250	9.78	34.50	26.62	148.1	.649	1.01	2.66
300	9.22	34.54	26.74	137.1	.721	.52	2.69
400	8.17	34.54	26.91	122.6	.851	.29	2.80
500	7.40	34.56	27.04	111.4	.970	.30	2.94
600	6.27	34.52	27.16	100.0	1.076	.25	2.96
700	5.67	34.51	27.23	94.0	1.174	.26	2.98
800	5.15	34.51	27.29	88.4	1.266	.30	3.02
1000	4.29	34.55	27.42	76.7	1.433	.56	2.99

STATION 140.80 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°06'N 115°31'W November 21, 1950 1528 GCT Wire angle: 15° Sounding: 2,240 fms. Depth of observation: 1,155 m.
Weather: partly cloudy Sea: very rough Wind: 320°, force 3

0	22.47	34.25	23.54	436.1	.0000	(3.15)	.44
10	22.48	34.23	23.52	438.2	.0439	3.18	.43
20	22.46	34.25	23.54	436.6	.0878	3.25	.40
30	22.48	34.27	23.55	436.0	.1316	3.39	.41
50	22.00	34.27	23.68	423.9	.2180	3.67	1.66
75	13.22	34.40	25.90	212.8	.2980	1.19	2.03
100	11.86	34.44	26.20	185.0	.3481	1.09	2.12
150	10.94	34.63	26.52	155.9	.434	.60	2.45
200	10.85	34.70	26.59	150.4	.511	.20	2.68
250	10.16	34.65	26.67	143.4	.585	.19	2.75
300	9.12	34.58	26.79	132.5	.654	.17	2.82
400	7.78	34.52	26.95	118.3	.781	.15	2.98
500	6.72	34.56	27.13	101.8	.892	.18	3.01
600	6.11	34.60	27.24	91.9	.990	.19	3.18
700	5.46	34.56	27.29	87.6	1.080	.23	3.23
800	4.99	34.54	27.33	84.2	1.167	.25	3.25
1000	4.14	34.59	27.47	71.9	1.325	.40	3.27

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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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	6.12	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 (‰)	σ_t (mg/cm^3)	$10^7\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 Dpeths)

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 (‰)	σ_t (mg/cm^3)	$10^5 8$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^7\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 150.90 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°01'N 115°03'W November 23, 1950 1205 GCT Wire angle: 0° Sounding: 2,000 fms. Depth of observation: 1,184 m.
Weather: overcast Sea: rough Wind: 310°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	23.10	34.36 *	23.44	445.3	.0000	5.07	.36
10	23.10	34.29 *	23.39	450.7	.0450	4.65	.29
20	23.10	34.28 *	23.38	451.8	.0903	4.57	.31
30	23.10	34.30 *	23.40	450.8	.1356	4.52	.33
50	22.83	34.34	23.50	441.2	.2252	4.27	.33
75	19.00	34.20	24.43	353.5	.3251	4.93	.34
100	16.18	33.95	24.92	307.4	.4083	4.82	.50
150	12.55	34.02	25.74	229.8	.543	4.18	1.62
200	11.29	34.50	26.35	172.8	.645	.97	2.45
250	10.42	34.53	26.53	156.6	.728	.60	2.59
300	9.75	34.52	26.64	147.2	.804	.43	2.68
400	8.34	34.49	26.84	128.9	.943	.30	2.80
500	7.17	34.45	26.98	116.3	1.067	.27	2.94
600	6.46	34.48 *	27.10	105.6	1.179	.24	3.00
700	5.81	34.49 *	27.20	97.4	1.281	.23	3.02
800	5.19	34.49 *	27.27	90.4	1.376	.27	3.11
1000	4.28	34.51 *	27.39	79.5	1.548	.47	3.14

* Sequence of salinity bottles uncertain

STATION 150.100 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 20°41'N 115°40'W November 23, 1950 0624 GCT Wire angle: 0° Sounding: 2,160 fms. Depth of observation: 1,188 m.
Weather: overcast Sea: moderate Wind: 270°, force 1

0	23.81	34.61	23.42	447.0	.0000	3.88	.34
10	23.80	34.61	23.43	447.0	.0449	3.92	.38
20	23.81	34.62	23.43	447.0	.0898	4.24	.36
30	23.82	34.64	23.44	446.2	.1346	4.22	.33
50	23.69	34.69	23.52	439.8	.2236	4.06	.34
75	18.91	34.35	24.57	340.4	.3217	4.72	.40
100	16.78	34.21	24.98	301.7	.4025	4.37	.37
150	12.50	33.93	25.68	235.5	.538	2.97	1.34
200	11.33	34.45	26.31	177.2	.642	.96	2.30
250	10.51	34.63	26.59	150.8	.724	.48	2.59
300	9.85	34.67	26.74	137.8	.797	.28	2.76
400	8.36	34.54	26.88	125.5	.930	.25	2.92
500	7.24	34.51	27.02	112.8	1.050	.23	3.09
600	6.35	34.54	27.17	99.6	1.157	.20	3.12
700	5.64	34.56	27.27	89.9	1.253	.22	3.14
800	5.10	34.56	27.34	84.1	1.341	.30	3.16
100	4.29	34.58	27.44	74.5	1.501	.50	3.24

STATION 150.110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 20°21'N 116°17'W November 23, 1950 0015 GCT Wire angle: 3° Sounding: 2,200 fms. Depth of observation 1,186 m.
Weather: overcast Sea: rough Wind: 270°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	23.99	34.67	23.42	447.7	.0000	4.60	.37
10	23.88	34.69	23.46	443.5	.0447	4.34	.38
20	23.88	34.66	23.44	446.1	.0894	4.82	.36
30	23.87	34.65	23.44	446.9	.1342	4.82	.33
50	23.86	34.69	23.47	444.5	.2238	4.45	.33
75	20.53	34.41	24.19	376.3	.3270	4.93	.38
100	18.27	34.25	24.65	333.2	.4162	5.05	.44
150	12.72	34.09	25.76	227.9	.557	2.64	1.69
200	11.52	34.54	26.34	174.0	.659	.90	2.39
250	10.63	34.61	26.56	154.3	.741	.54	2.57
300	9.77	34.61	26.71	140.9	.816	.35	2.69
400	8.25	34.58	26.93	120.9	.948	.28	2.85
500	6.98	34.52	27.06	108.4	1.063	.25	2.96
600	6.13	34.54	27.19	96.6	1.167	.25	3.03
700	5.52	34.53	27.26	90.6	1.261	.25	3.14
800	5.05	34.52	27.31	86.4	1.351	.30	3.30
1000	4.28	34.60	27.46	72.9	1.512	.53	3.32

STATION 153.20 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°47.5'N 110°22'W November 25, 1950 1256 GCT Wire angle: 26° Sounding: 740 fms. Depth of observation: 994 m.
Weather: partly cloudy Sea: rough Wind: 320°, Force 2

0	25.64	34.74	22.97	490.2	.0000	4.51	.49
10	25.64	34.75	22.98	489.9	.0492	4.64	.46
20	25.00	34.44	22.94	493.9	.0986	4.73	.45
30	22.00	33.96	23.45	445.6	.1458	5.15	.47
50	16.55	33.66	24.61	335.1	.2242	5.61	.58
75	13.90	33.66	25.19	280.3	.3016	4.83	.90
100	12.85	33.88	25.58	244.5	.3676	2.67	1.84
150	12.25	34.64	26.28	178.7	.474	.74	2.54
200	11.38	34.67	26.47	161.9	.560	.31	2.75
250	10.69	34.65	26.58	152.4	.639	.32	2.84
300	10.10	34.64	26.67	144.2	.714	.28	2.91
400	8.61	34.55	26.85	128.7	.851	.20	3.02
500	7.08	34.52	27.05	109.8	.971	.21	3.33
600	6.27	34.48	27.13	103.8	1.079	.21	3.38
700	5.62	34.48	27.21	95.6	1.179	.23	3.45
800	5.17	34.51	27.29	88.7	1.272	.27	3.52
1000	(4.28)	(34.43)	(27.33)	(85.4)	(1.448)	(.44)	(3.55)

STATION 153.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°27'N 110°59.0'W November 25, 1950 1926 GCT Wire angle: 14° Sounding 1,660 fms. Depth of observation: 960 m.
Weather: cloudy Sea: rough Wind 350°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	25.22	34.52 *	22.93	493.8	.0000	4.40	.48
10	25.12	34.53 *	22.97	490.5	.0494	3.89	.44
20	25.08	34.51 *	22.97	491.2	.0987	4.05	.44
30	25.04	34.45 *	22.94	494.8	.1482	4.03	.44
50	22.90	34.42 *	23.54	437.3	.2419	3.96	.38
75	18.00	34.22 *	24.69	328.2	.3381	4.25	.68
100	14.80	34.01	25.27	273.6	.4138	2.27	1.59
150	12.10	34.40	26.12	193.6	.531	1.58	2.32
200	11.84	34.77	26.46	162.9	.621	.34	2.75
250	11.10	34.76	26.59	151.5	.700	.26	2.82
300	10.33	34.69	26.67	144.4	.775	.24	2.90
400	8.70	34.52	26.81	132.3	.914	.21	3.06
500	7.64	34.52	26.97	117.9	1.040	.19	3.21
600	6.87	34.53	27.09	107.6	1.154	.16	3.24
700	6.03	34.55	27.21	95.9	1.257	.22	3.24
800	5.31	34.54	27.30	88.3	1.350	.31	3.24
1000	(4.39)	(34.41)	(27.30)	(88.3)	(1.529)	(.36)	(3.30)

* Sequence of salinity bottles uncertain

STATION 153.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°07'N 111°36.5'W November 26, 1950 0205 GCT Wire angle: 3° Sounding: 1,680 fms. Depth of observation: 1,185 m.
Weather: cloudy Sea: rough Wind: 320°, force 3

0	25.33	34.54	22.91	495.5	.0000	3.98	.47
10	25.36	34.58	22.94	493.9	.0497	3.58	.46
20	25.36	34.58	22.94	494.3	.0993	3.57	.38
30	25.37	34.58	22.93	495.0	.1489	3.64	.39
50	25.32	34.60	22.96	492.9	.2482	3.96	.44
75	18.80	34.00	24.33	363.1	.3558	4.38	.46
100	14.67	33.94	25.25	276.0	.4362	3.15	1.44
150	13.27	34.69	26.12	194.5	.555	.52	2.39
200	11.73	34.65	26.39	169.7	.646	.26	2.69
250	10.93	34.63	26.52	158.0	.729	.29	2.78
300	10.32	34.65	26.64	147.2	.806	.31	2.83
400	9.09	34.58	26.79	134.8	.947	.20	2.97
500	8.00	34.55	26.94	121.1	1.076	.20	3.11
600	6.78	34.47	27.05	110.8	1.193	.20	3.20
700	5.88	34.49	27.19	98.3	1.298	.20	3.26
800	5.21	34.52	27.29	88.5	1.393	.21	3.30
1000	4.44	34.49	27.36	83.0	1.566	.46	3.28

STATION 153.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°47'N 112°13.5'W November 26, 1950 0844 GCT Wire angle: 0° Sounding: 1,840 fms. Depth of observation: 1,189 m.
Weather: cloudy Sea: moderate Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (dyn.m.)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	24.91	34.38	22.92	494.9	.0000	4.82	.45
10	24.92	34.41	22.94	493.4	.0496	4.72	.48
20	24.93	34.42	22.95	493.3	.0991	4.68	.46
30	24.90	34.42	22.96	492.9	.1487	4.69	.46
50	22.50	34.25	23.53	438.7	.2423	4.91	.52
75	16.50	33.71	24.66	331.1	.3391	5.50	.62
100	13.70	34.02	25.51	250.6	.4122	4.00	1.62
150	11.84	34.40	26.17	188.8	.523	1.14	2.34
200	11.36	34.61	26.43	166.0	.612	.29	2.74
250	10.80	34.60	26.52	158.0	.694	.25	2.88
300	9.82	34.56	26.66	145.4	.770	.25	2.95
400	8.66	34.54	26.83	130.2	.909	.19	3.09
500	7.75	34.51	26.95	120.3	1.035	.16	3.10
600	6.60	34.47	27.08	108.2	1.151	.16	3.22
700	5.87	34.44	27.15	101.9	1.257	.20	3.28
800	5.27	34.42	27.21	96.6	1.357	.26	3.30
1000	4.42	34.50	27.37	82.0	1.538	.45	3.28

STATION 153.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°29.1'N 112°50.0'W November 26, 1950 1500 GCT Wire angle: 9° Sounding: 2,200 fms. Depth of observation: 1,051 m.
Weather: overcast Sea: rough Wind: 320°, force 3

0	24.32	34.45	23.15	472.9	.0000	4.69	.49
10	24.32	34.45	23.15	473.3	.0475	4.81	.39
20	24.32	34.45	23.15	473.7	.0950	4.67	.38
30	24.32	34.45	23.15	474.1	.1426	4.64	.44
50	18.00	34.23	24.70	326.6	.2231	4.50	.95
75	13.70	34.28	25.71	230.9	.2932	2.00	1.89
100	12.60	34.42	26.04	200.2	.3474	1.20	2.17
150	11.40	34.58	26.39	167.7	.440	.72	2.48
200	11.04	34.70	26.55	153.7	.521	.24	2.61
250	10.55	34.66	26.61	149.3	.597	.18	2.74
300	9.75	34.60	26.70	141.3	.670	.16	2.84
400	8.80	34.58	26.84	129.4	.807	.21	2.92
500	7.65	34.57	27.01	114.4	.930	.26	2.98
600	6.58	34.55	27.14	102.1	1.039	.25	3.08
700	5.81	34.53	27.23	94.4	1.138	.25	3.16
800	5.24	34.52	27.29	88.9	1.231	.29	3.24
1000	4.37	34.55	27.41	77.7	1.399	.50	3.21

STATION 153.70 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°06.5'N 113°27.5'W November 26, 1950 2215 GCT Wire angle: 25° Sounding: 2,120 fms. Depth of observation: 1,058 m.
Weather: cloudy Sea: rough Wind: 320°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	23.70	34.40	23.30	459.0	.0000	4.84	.49
10	23.43	34.36	23.35	454.8	.0459	4.76	.51
20	23.31	34.34	23.37	453.3	.0915	4.77	.52
30	23.29	34.29	23.33	456.7	.1371	4.95	.50
50	17.00	33.61	24.47	348.8	.2181	5.53	.41
75	14.20	33.58	25.07	292.1	.2987	5.46	.59
100	13.10	33.98	25.60	241.9	.3658	3.20	1.38
150	12.10	34.31	26.05	200.2	.477	1.66	2.25
200	10.71	34.51	26.47	161.9	.568	.96	2.48
250	10.35	34.61	26.61	149.5	.647	.34	2.70
300	9.85	34.61	26.69	142.2	.720	.20	2.85
400	8.48	34.61	26.91	122.2	.853	.16	2.90
500	7.35	34.55	27.04	111.5	.971	.17	3.10
600	6.51	34.54	27.14	101.8	1.079	.19	3.17
700	5.79	34.56	27.25	91.9	1.177	.20	3.22
800	5.20	34.54	27.31	86.9	1.267	.21	3.25
1000	4.36	34.56	27.42	76.9	1.433	.41	3.31

STATION 157.10 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°33'N 109°23'W November 28, 1950 1942 GCT Wire angle: 0° Sounding: 1,600 fms. Depth of observation: 1,186 m.
Weather: partly cloudy Sea: moderate Wind: calm

0	27.25	34.70	22.43	541.6	.0000	3.79	.49
10	27.22	34.76	22.49	536.7	.0541	4.37	.51
20	27.10	34.78	22.54	532.0	.1078	4.36	.54
30	26.90	34.78	22.61	526.3	.1609	4.34	.57
50	24.01	34.52	23.30	461.0	.2601	3.58	.70
75	17.45	34.18	24.80	318.3	.3581	2.34	1.25
100	14.72	34.53	25.69	234.0	.4275	1.52	2.33
150	12.78	34.70	26.22	184.3	.533	.68	2.82
200	11.85	34.72	26.43	166.7	.621	.24	2.91
250	11.10	34.70	26.54	155.9	.702	.16	2.92
300	10.48	34.67	26.63	148.4	.779	.15	2.94
400	9.07	34.65	26.85	128.6	.919	.20	3.22
500	7.85	34.63	27.03	112.9	1.041	.16	3.30
600	6.71	34.58	27.15	101.7	1.149	.15	3.37
700	5.76	34.58	27.27	90.0	1.246	.19	3.39
800	5.10	34.58	27.35	82.6	1.333	.25	3.39
1000	4.43	34.60	27.44	74.8	1.492	.44	3.40

STATION 157.20 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°13'N 110°00'W November 28, 1950 1323 GCT Wire angle: 3° Sounding: 1,700 fms. Depth of observation: 1,185 m.
Weather: partly cloudy Sea: moderate Wind: calm

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	26.49	34.72	22.69	517.0	.0000	4.55	.50
10	26.40	34.72	22.72	514.7	.0518	4.55	.45
20	26.30	34.72	22.75	512.1	.1033	4.59	.45
30	26.20	34.72	22.78	509.5	.1546	4.63	.47
50	24.04	34.56	23.32	459.0	.2520	4.55	.53
75	17.32	34.22	24.86	312.4	.3489	3.27	1.34
100	14.60	34.44	25.65	238.1	.4182	1.91	2.25
150	12.55	34.74	26.30	177.0	.523	.59	2.77
200	11.84	34.70	26.41	168.0	.610	.36	2.88
250	11.23	34.69	26.51	158.9	.692	.28	2.89
300	10.41	34.69	26.65	145.8	.769	.25	2.90
400	9.04	34.62	26.83	130.3	.908	.18	2.96
500	7.66	34.62	27.05	110.8	1.029	.15	3.06
600	6.65	34.58	27.16	100.8	1.136	.21	3.10
700	5.85	34.57	27.25	92.0	1.233	.26	3.14
800	5.18	34.58	27.34	83.7	1.322	.30	3.20
1000	4.40	34.56	27.42	77.3	1.485	.42	3.23

STATION 157.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°52.5'N 110°37.5'W November 27, 1950 2327 GCT Wire angle: 10° Sounding: 1,710 fms. Depth of observation: 1,165 m.
Weather: overcast Sea: moderate Wind: 320°, force 2

0	26.99	34.88	22.65	520.7	.0000	3.40	.38
10	26.80	34.88	22.71	515.3	.0520	3.19	.43
20	26.52	34.85	22.78	509.4	.1034	3.31	.44
30	24.70	34.57	23.13	476.3	.1529	3.68	.42
50	20.20	33.90	23.89	404.0	.2414	4.37	.40
75	14.90	33.64	24.97	302.0	.3301	4.00	.45
100	13.10	33.98	25.60	241.9	.3986	2.34	1.68
150	12.25	34.55	26.21	185.3	.506	.80	2.54
200	11.59	34.78	26.51	157.6	.592	.27	2.80
250	10.95	34.75	26.61	149.6	.670	.24	2.83
300	10.35	34.69	26.67	144.7	.744	.20	2.86
400	9.00	34.62	26.84	129.6	.882	.17	3.00
500	7.76	34.52	26.95	119.7	1.008	.20	3.14
600	6.60	34.51	27.11	105.3	1.121	.20	3.32
700	5.92	34.52	27.21	96.6	1.223	.24	3.40
800	5.34	34.52	27.28	90.2	1.318	.31	3.44
1000	4.33	34.57	27.43	75.7	1.485	.37	3.45

STATION 157.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 21°32.5'N 111°14.5'W November 27, 1950 0032 GCT Wire angle: 4° Sounding: 1,780 fms. Depth of observation: 1,188 m.
Weather: partly cloudy Sea: rough Wind: 340°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	25.32	34.49	22.88	498.9	.0000	3.95	.44
10	25.04	34.47	22.95	492.5	.0498	4.19	.32
20	25.02	34.45	22.94	493.8	.0993	4.14	.39
30	25.00	34.44	22.94	494.3	.1489	4.15	.41
50	20.30	34.13	24.04	389.9	.2377	4.72	.31
75	14.85	33.99	25.25	275.4	.3214	3.00	1.15
100	14.84	34.85	25.91	213.1	.3828	.83	2.58
150	13.43	34.88	26.23	183.7	.483	.56	2.70
200	12.60	34.87	26.39	169.7	.572	.50	2.70
250	11.83	34.80	26.48	161.7	.655	.33	2.77
300	11.00	34.73	26.58	153.1	.734	.15	2.86
400	9.71	34.66	26.76	138.3	.881	.21	3.01
500	8.15	34.57	26.93	121.9	1.013	.24	3.13
600	6.84	34.52	27.08	107.9	1.128	.21	3.22
700	6.10	34.52	27.18	99.1	1.233	.21	3.25
800	5.48	34.54	27.28	90.5	1.329	.23	3.32
1000	4.57	34.58	27.41	78.0	1.499	.31	3.38

STATION 157.50 (Interpolated at Standard Depths)

BLACK DOUGLAS: 21°11'N 111°53'W November 27, 1950 1645 GCT Wire angle: 5° Sounding: 1,980 fms. Depth of observation: 1,186 m.
Weather: partly cloudy Sea: rough Wind: 340°, force 3

0	24.48	34.33	23.01	486.1	.0000	4.61	.48
10	24.48	34.29	22.98	489.4	.0490	4.69	.44
20	24.43	34.33	23.02	485.5	.0979	4.68	..44
30	24.35	34.34	23.06	482.9	.1465	4.70	.47
50	19.52	34.07	24.20	374.8	.2327	4.89	.65
75	16.20	33.91	24.88	310.0	.3188	4.20	1.00
100	14.22	33.89	25.30	270.5	.3918	2.37	1.75
150	12.83	34.61	26.14	191.9	.508	.89	2.58
200	11.23	34.69 *	26.51	157.8	.596	.54	2.60
250	10.70	34.64 *	26.57	153.3	.675	.31	2.73
300	10.24	34.58 *	26.60	150.9	.751	.19	2.88
400	8.61	34.54 *	26.84	129.4	.892	.26	3.05
500	7.55	34.51 *	26.98	117.3	1.017	.18	3.15
600	6.72	34.49 *	27.08	108.4	1.131	.24	3.28
700	6.00	34.50 *	27.18	99.2	1.236	.29	3.35
800	5.35	34.52 *	27.28	90.3	1.331	.31	3.38
1000	4.48	34.57 *	27.41	77.6	1.501	.36	3.36

* Sequence of salinity bottles uncertain

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 (‰)	σ_t (mg/cm^3)	10^5 δ	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^3\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (μg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 GCT 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 GCT 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 GCT 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 (‰)	σ_t (Mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 GCT 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	8.48	34.36	26.73	137.6	.654	–	–

STATION 120.45K-28 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 1100 GCT Wire angle: 0°
Sounding: 1,100 fms. Depth of observation: 1,205 m. Weather: clear
Sea: very rough Wind: 330°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.57	33.78	23.96	395.3	.0000	–	–
10	19.58	33.79	23.97	395.2	.0397	–	–
20	19.58	33.77	23.95	397.0	.0795	–	–
30	19.45	33.62	23.87	405.0	.1197	–	–
50	14.64	33.46	24.88	309.1	.1915	–	–
75	12.88	33.64	25.38	262.0	.2633	–	–
100	10.88	33.69	25.80	223.0	.3243	–	–
150	9.47	33.98	26.26	179.4	.426	–	–
200	9.93	34.45	26.55	153.2	.509	–	–
250	9.52	34.49	26.65	144.6	.584	–	–
300	8.95	34.43	26.70	140.9	.656	–	–
400	7.78	34.42	26.87	125.7	.791	–	–
500	6.71	34.43	27.03	111.3	.910	–	–
600	5.80	34.48	27.19	96.7	1.015	–	–
700	5.20	34.53	27.30	86.5	1.107	–	–
800	4.77	34.56	27.37	79.9	1.191	–	–
1000	4.06	34.56	27.45	73.2	1.346	–	–

STATION 120.45K-29 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 1400 GCT Wire angle: 0°
Sounding 1,100 fms. Depth of observation: 302 m. Weather: partly cloudy
Sea: very rough Wind 340°, force 5

0	19.55	33.82	24.00	391.9	.0000	–	–
10	19.55	33.80	23.98	393.7	.0394	–	–
20	19.55	33.78	23.97	395.5	.0791	–	–
30	19.53	33.66	23.88	404.1	.1192	–	–
50	16.27	33.57	24.61	335.5	.1935	–	–
75	12.68	33.55	25.35	264.9	.2690	–	–
100	11.19	33.68	25.73	229.1	.3311	–	–
150	9.65	34.06	26.30	176.4	.433	–	–
200	9.92	34.48	26.58	150.8	.516	–	–
250	9.55	34.54	26.69	141.4	.589	–	–
300	9.21	34.51	26.72	139.1	.660	–	–

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

E. W. SCRIPPS: 27°45'N 115°34'W November 16, 1950 1705 GCT 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 GCT 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg 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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 n. Weather: clear Sea: very rough Wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	Δ D (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	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 (‰)	σ_t (mg/cm^3)	$10^5$8 .	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-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 (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	19.38	33.66	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 120.45K-6

Depth (m)	T (°C)	S (‰)
0	19.58	33.78
10	19.55	33.76
25	19.56	33.78
50	14.39	33.37
74	11.94	33.62
99	11.00	33.85
152	9.56	34.02
202	9.26	34.21
299	8.56	34.40
400	7.69	34.36
499	6.86	34.41
534	4.24	34.57
603	5.98	34.45
805	4.70	34.45
1008	3.96	34.50

E.W. SCRIPPS: STATION 120.45K-7

Depth (m)	T (°C)	S (‰)
0	19.70	33.70
10	19.57	33.69
25	19.56	33.69
50	14.66	33.45
74	11.97	33.51
99	11.03	33.69
153	9.55	33.95
204	9.29	34.18
302	8.23	34.29
403	7.63	34.40
502	6.63	34.43
604	5.86	34.42
804	4.70	34.40
1000	3.96	34.52
1206	3.42	34.56

E.W. SCRIPPS: STATION 120.45K-8

0	19.76	33.71
10	19.56	33.73
26	17.25	33.40
51	14.35	33.62
75	11.78	33.56
100	11.05	33.66
125	11.07	34.02
154	9.56	34.00
203	9.64	34.27
251	9.77	34.49
300	8.25	34.29

E.W. SCRIPPS: STATION 120.45K-9

0	19.64	33.71
10	19.54	33.67
25	19.51	33.62
50	15.62	33.57
74	12.17	33.53
99	11.08	33.66
153	9.54	(33.96)
202	9.70	34.29
300	8.26	34.27
403	7.73	34.34
500	6.68	34.43
603	5.98	34.41
804	4.70	34.43
1001	4.03	34.49
1204	3.47	34.51

E.W. SCRIPPS: STATION 120.45K-10

0	19.59	33.70
10	19.58	33.69
25	19.51	33.68
50	15.41	33.30
74	12.80	33.61
98	11.23	33.63
123	11.48	34.05
152	9.54	33.96
200	9.74	34.32
249	9.56	34.42
299	8.25	34.27

E.W. SCRIPPS: STATION 120.45K-11

0	19.54	33.70
10	19.53	33.71
25	19.52	33.68
50	14.34	33.48
75	12.15	33.51
99	11.13	33.65
155	9.56	34.04
204	9.28	34.22
303	8.20	34.27
404	7.74	34.42
502	6.69	34.41
604	5.88	34.43
805	4.78	34.44
1002	4.00	34.49
1205	3.49	34.54

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	14.08	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

MLR-1

DISTRIBUTION LIST

Dr. John N. Adkins
Office of Naval Research
Room T3-2519
Navy Department
Washington, D. C.

Dr. E. H. Ahlstrom
U. S. Fish & Wildlife Service
c/o Scripps Institution
of Oceanography
La Jolla, California

Mr. W. Wade Ambrose
Westgate-Sun Harbor Co.
1995 Bay Front
San Diego 13, Calif.

Mr. J. R. Biven
Coast Fishing Company
P. O. Box 877
Wilmington, California

Dr. L. R. Blinks
Hopkins Marine Station
Pacific Grove, California

Dr. Rolf L. Bolin
Hopkins Marine Station
Pacific Grove, Calif.

British Joint Services
(Navy Staff)
1910 K Street N. W.
Washington, D. C.

Mr. J. G. Burnette, Chairman
Marine Research Committee
P. O. Box 807
Los Altos, California

Dr. W. M. Cameron
Institute of Oceanography
Univ. of British Columbia
Vancouver, B.C., CANADA

Dr. F. N. Clark 4
Dept. of Fish & Game
Calif.State Fish.Lab.
Terminal Island,Calif.

Mr. R. S. Croker
Calif. Dept. of Fish & Game
Ferry Building
San Francisco 11, California

Herrn Prof.Dr. A. Defant
Institut für Geophysik
der Universität Innsbruck
Schöpfstrasse 41
Innsbruck, AUSTRIA 3

Mr. Joseph G. Ellson
U.S.Fish&Wildlife Service
2725 Montlake Blvd.
Seattle 2, Wash.

Mr. John T. Gharrett
Pacific Marine Fisheries Comm.
340 State Office Building
1400 S.W. Fifth Avenue
Portland 1, Oregon

Hancock Library of
Biology & Oceanography
Allan Hancock Foundation
Univ. of Southern Calif.
Los Angeles 7, Calif.

Gen'l. Warren T. Hannum
Director of Nat.Resources
State Building 1
Sacramento 14, Calif.

Dr. John L. Hart
Pacific Biological Laboratory
Nanaimo, British Columbia
CANADA

Mr. Harvey Hastain
Brawley
California

Dr. Robert W. Hiatt
University of Hawaii
Honolulu, T. H.

Captain S. M. Joelson
c/o MV BLACK DOUGLAS
Pier 21, Treasure Island
San Francisco, California

Professor Harold Kirby
University of California
Department of Zoology
Berkeley 4, California

Mr. E. C. LaFond
Code 550
U.S.Navy Electronics Lab.
San Diego 52, California

Mr. E. L. Macaulay
Executive Officer
Calif. Fish & Game Commission
Ferry Building
San Francisco 11, California

Dr. J. L. McHugh
Virginia Fisheries Lab.
Gloucester Point, Va.

Mr. Donald L. McKernan
Director of Research
Fish Comm. of Oregon
Route 1, Box 31A
Clackamas, Oregon

Mr. J. C. Marr
U. S. Fish & Wildlife Service
450-B Jordan Hall
Stanford, California

Dr. R. C. Miller
Calif.Academy of Science
Golden Gate Park
San Francisco 18, Calif.

Mr. John V. Morris
French Sardine Co.
582 Tuna Street
Terminal Island, Calif.

Dr. Yngve H. Olsen
Journal of Marine Research
Yale University
New Haven, Connecticut

Library
Pacific Oceanic Fishery
Investigations
P. O. Box 3830
Honolulu, T. H.

Dr. D. W. Pritchard
Chesapeake Bay Institute
The John Hopkins Univ.
1315 St. Paul Street
Baltimore 2, Md.

Dr. Roger Revelle
University of California
Scripps Institution of Oceano.
La Jolla, California

Dr. Willis H. Rich
2120 Santa Cruz Avenue
Menlo Park, California

Dr. Gordon A. Riley
Bingham Oceanographic
Foundation
Yale University
New Haven, Conn.

Mr. Don T. Saxby
California Packing Corp.
101 California Street
San Francisco 19, Calif.

Dr. M. B. Schaefer
Inter-American Tropical
Tuna Commission
c/o Scripps Institution
La Jolla, California

Library
University of Calif.
Scripps Institution
of Oceanography
La Jolla, California

Mr. O. E. Sette
Pacific Oceanic Fishery
Investigations
P. O. Box 3830
Honolulu, T. H.

President R. G. Sproul
University of California
Berkeley 4, California

Miss Margaret Storey
Librarian
Natural History Museum
Stanford, California

Dr. Harald U. Sverdrup
Norwegian Polar Institute
Observatoriegt 1
Oslo, NORWAY

Dept. of Oceanography
A.&M. College of Texas
College Station, Texas

Dr. Harold Thompson
Chief, Div.of Fisheries
Commonwealth Scientific
&Indust.Research Org.
P.O. Box 21
Cronulla,NSW, AUSTRALIA

Dr. John P. Tully
Pacific Biological Station
Nanaimo, British Columbia
CANADA

Library 2
U.S. Navy Electronics
Laboratory
San Diego 52, Calif.

Hydrographic Office
Navy Department
Washington 25, D. C.

Attn: Mr. John Lyman 2

University of California
The General Library
Berkeley 4, California

Attn: Gifts & Exchange Dept. 2

Director
The University of Miami
Marine Laboratory
Coral Gables, Florida

Library
Univ. of Washington
Oceanographic Lab.
Friday Harbor, Wash.

Library
University of Washington
Oceanographic Laboratories
Seattle 5, Washington

Director
University of Washington
School of Fisheries
Seattle 4, Washington

Dr. Lionel A. Walford
Chief, Branch of
Fishery Biology
U.S.Fish&Wildlife Serv.
Dept. of the Interior
Washington 25, D. C.

Dr. Boyd W. Walker
University of California
Department of Zoology
Los Angeles 24, California

Director
Woods Hole Oceanographic
Institution
Woods Hole, Massachusetts