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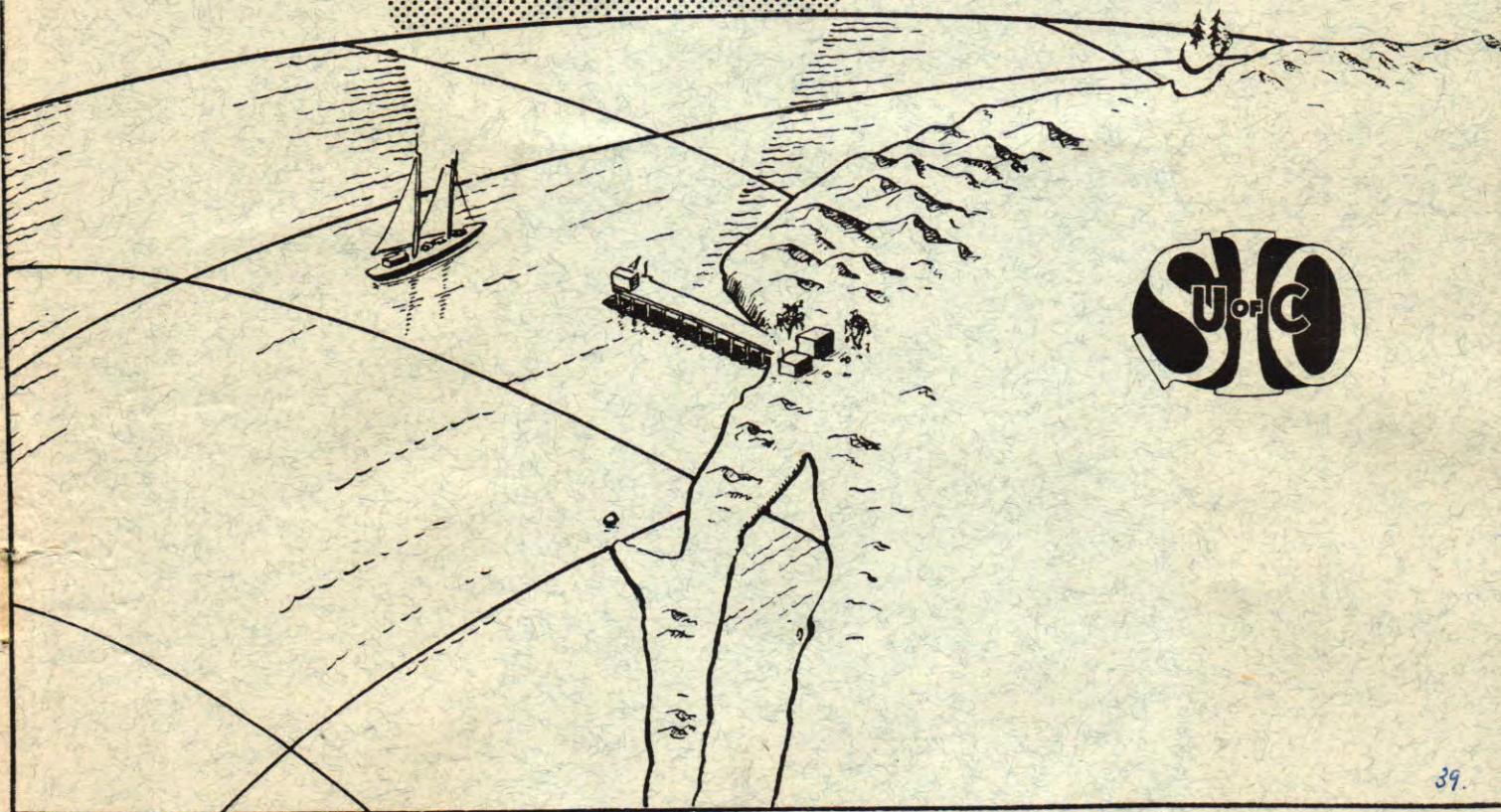
PHYSICAL AND CHEMICAL DATA REPORT NO. 5
COP. 2

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CRUISE 5 - JULY 1 TO JULY 16, 1949
MARINE LIFE RESEARCH PROGRAM

MARINE LIFE RESEARCH
DIVISION III, PHYSICAL OCEANOGRAPHY
DIVISION OF CHEMICAL OCEANOGRAPHY



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PHYSICAL AND CHEMICAL DATA

CRUISE 5 - JULY 1 TO JULY 16, 1949

MARINE LIFE RESEARCH PROGRAM

Report prepared October 26, 1949

Physical and Chemical Data Report No. 5

CONTENTS

	Page
List of Figures	i
Introduction	ii
Personnel	iii
Tabulated Data	
Distribution List	

FIGURES

1. MLR Cruise 5, Station Positions
2. Horizontal Distribution of Dynamic Height Anomaly 0 over 1000 d-bar
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. Horizontal Distribution of Salinity at 30 Meters
7. Horizontal Distribution of Temperature at 100 Meters
8. Horizontal Distribution of Salinity at 100 Meters
9. Horizontal Distribution of Oxygen Deficit, Averaged 0 to 50 Meters
10. Horizontal Distribution of Phosphate-Phosphorus at 30 Meters

INTRODUCTION

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

Data are presented in the form of tabulated values at standard depths and of charts of horizontal distribution of certain quantities at selected depths. In the tabulated data extrapolated values are indicated by parentheses. The time given is the time when the messenger was released. When more than one cast was made on a station, each messenger time and each wire angle is given. The time and the wire angle given first are for the shallow cast. Horizontal lines signify the depth to which each cast reached. Wind directions were observed on only a portion of Stations 101 through 410. The values marked by asterisks were obtained from six-hourly surface weather charts.

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

Because of malfunctioning and breakage of unprotected thermometers, only one or two unprotected thermometer readings were obtained on most of the stations occupied on Lines 1 through 4. Therefore, the depths of observations have been determined primarily from measurements of wire angle and wire length of Stations 101 through 410, inclusive.

Oxygen and phosphate-phosphorus data on Lines 1 through 8 cannot be relied upon. Observations on Lines 9 through 12 seem to be satisfactory, and only these are shown in the charts of horizontal distribution.

The original data and the data as modified during various steps in processing are on file with Division III of Physical Oceanography and with the Division of Chemical Oceanography. Copies may be made available. The data are processed on the six standard forms of these divisions. These forms and their use will be described in a separate technical report which is being prepared.

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

Carl Eckart, Director of the Scripps Institution of Oceanography
Roger Revelle, Associate Director

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AND IN THE PREPARATION OF THIS REPORT

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Stose, Clemens W., Hull

Ships' Captains

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Olsen, Edward B. MV HORIZON

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Huffer, Robert P., Senior Marine Technician
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Beckwith, Warren W., Marine Technician
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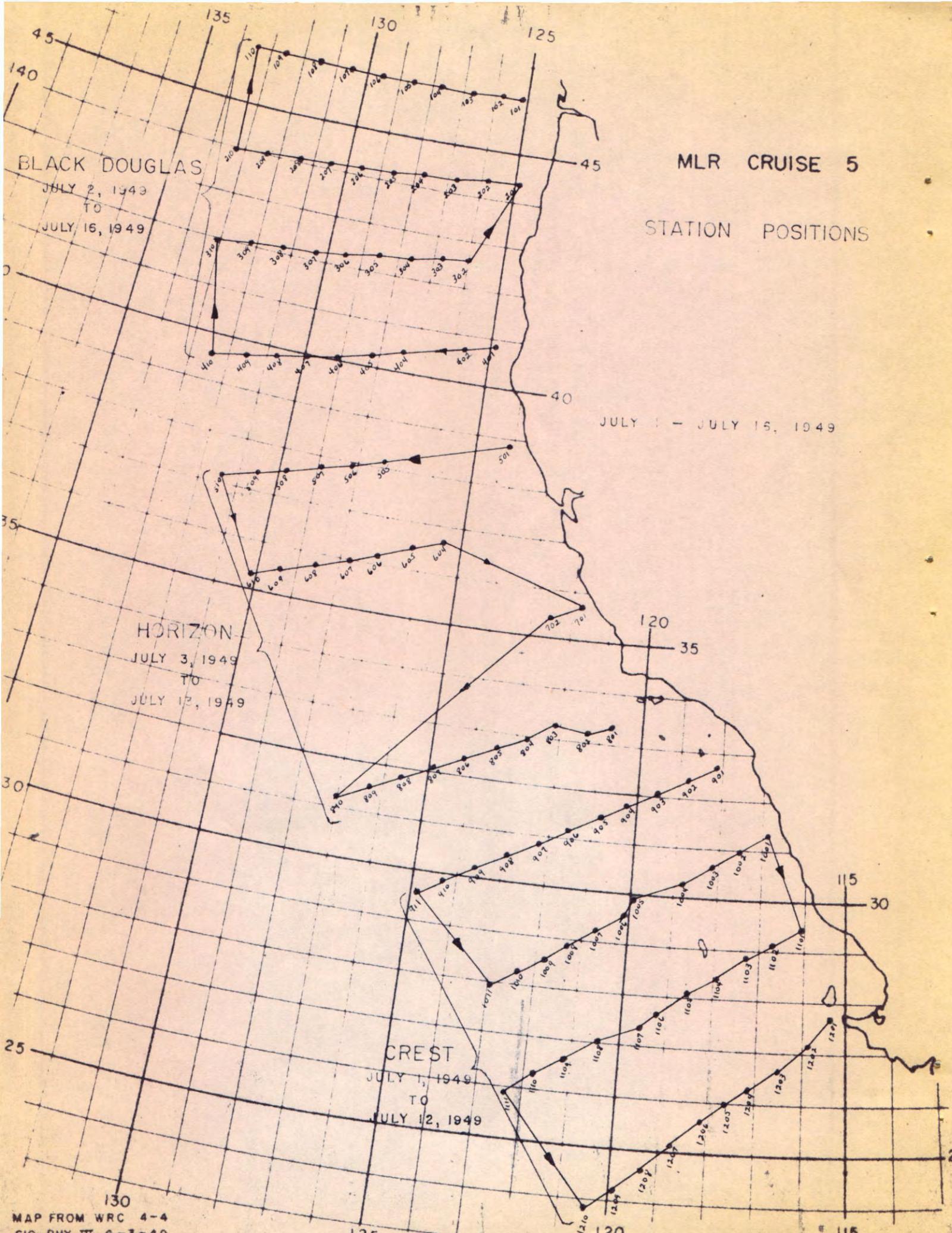
PERSONNEL ASSISTING THE MLR PROGRAM IN THE COLLECTION OF DATA FOR THIS REPORT

Scientific Personnel

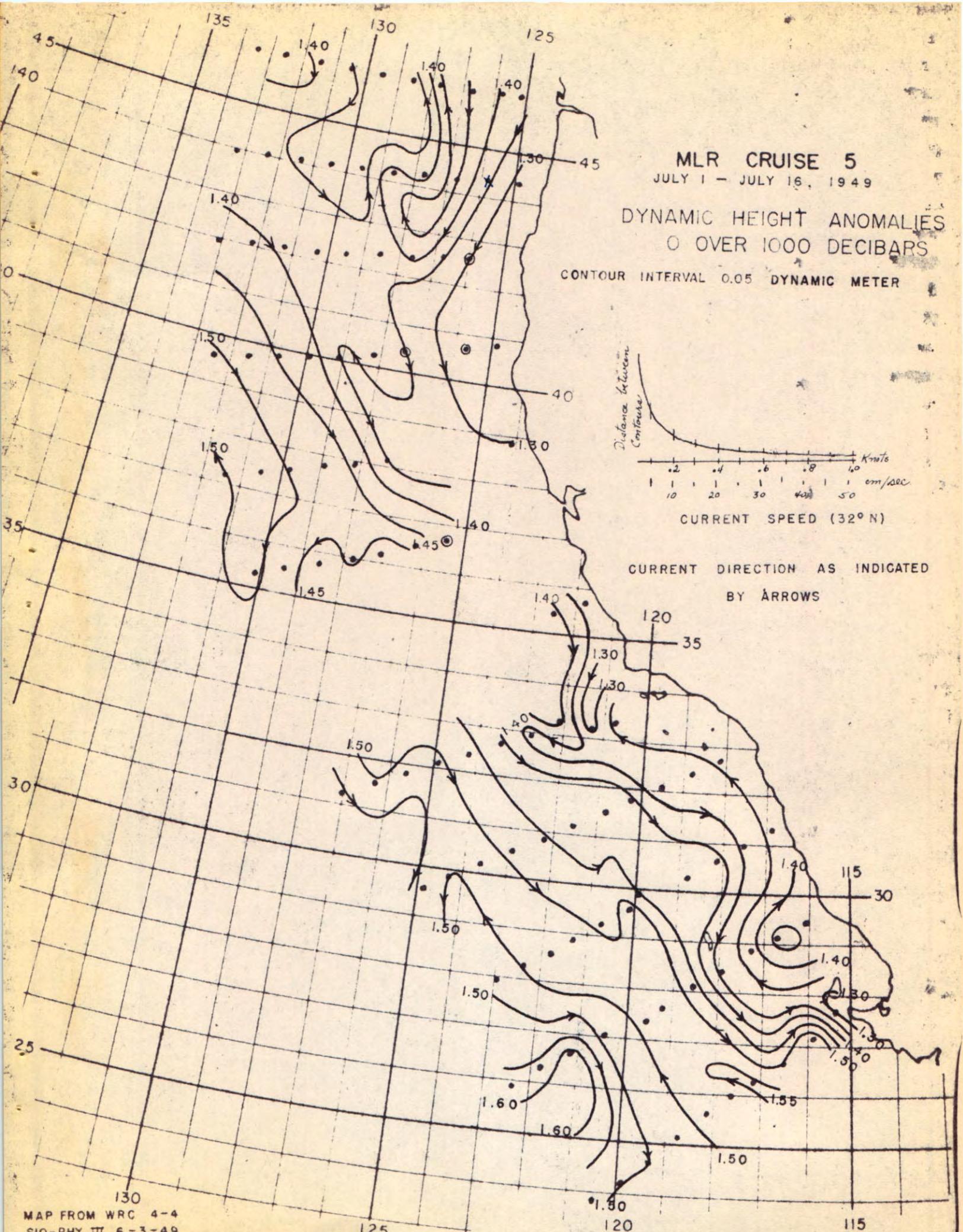
Cox, David, Marine Chemist, Fish and Wildlife Service
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Martin, Melvin D., Marine Technician, Scripps Institution of
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Singer, John M., Marine Technician, Scripps Institution of
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Treadwell, Thurman, Lieutenant, U. S. Navy
Wallis, Orthello, Marine Fishery Research Biologist,
Fish and Wildlife Service
Widrig, Theodore, Fishery Statistician, Fish and Wildlife Service

Ships' Captains

Hathaway, Paul, MV BLACK DOUGLAS



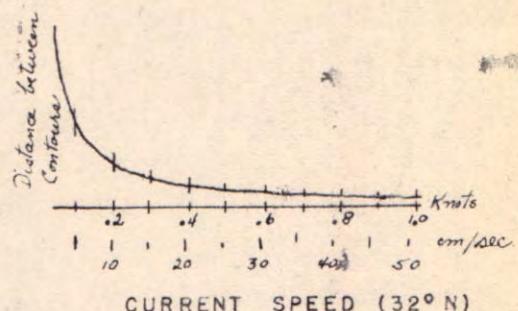
MAP FROM WRC 4-4
SIO-PHY III 6-3-49



MLR CRUISE 5

DYNAMIC HEIGHT ANOMALIES OVER 1000 DECIBARS

CONTOUR INTERVAL 0.05 DYNAMIC METER



CURRENT DIRECTION AS INDICATED
BY ARROWS

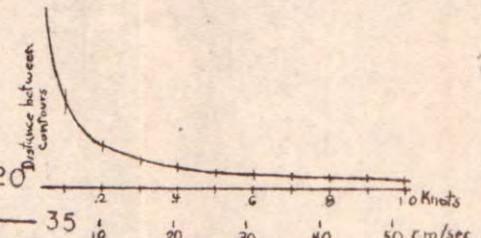
MLR CRUISE 5

JULY 1 - JULY 16, 1949

DYNAMIC HEIGHT ANOMALIES
(0 OVER 1000 DECIBARS)

CORRECTED FOR TIDAL EFFECT

CONTOUR INTERVAL 0.05 DYNAMIC METERS



CURRENT DIRECTION AS INDICATED

BY ARROWS

130

MLR CRUISE 5

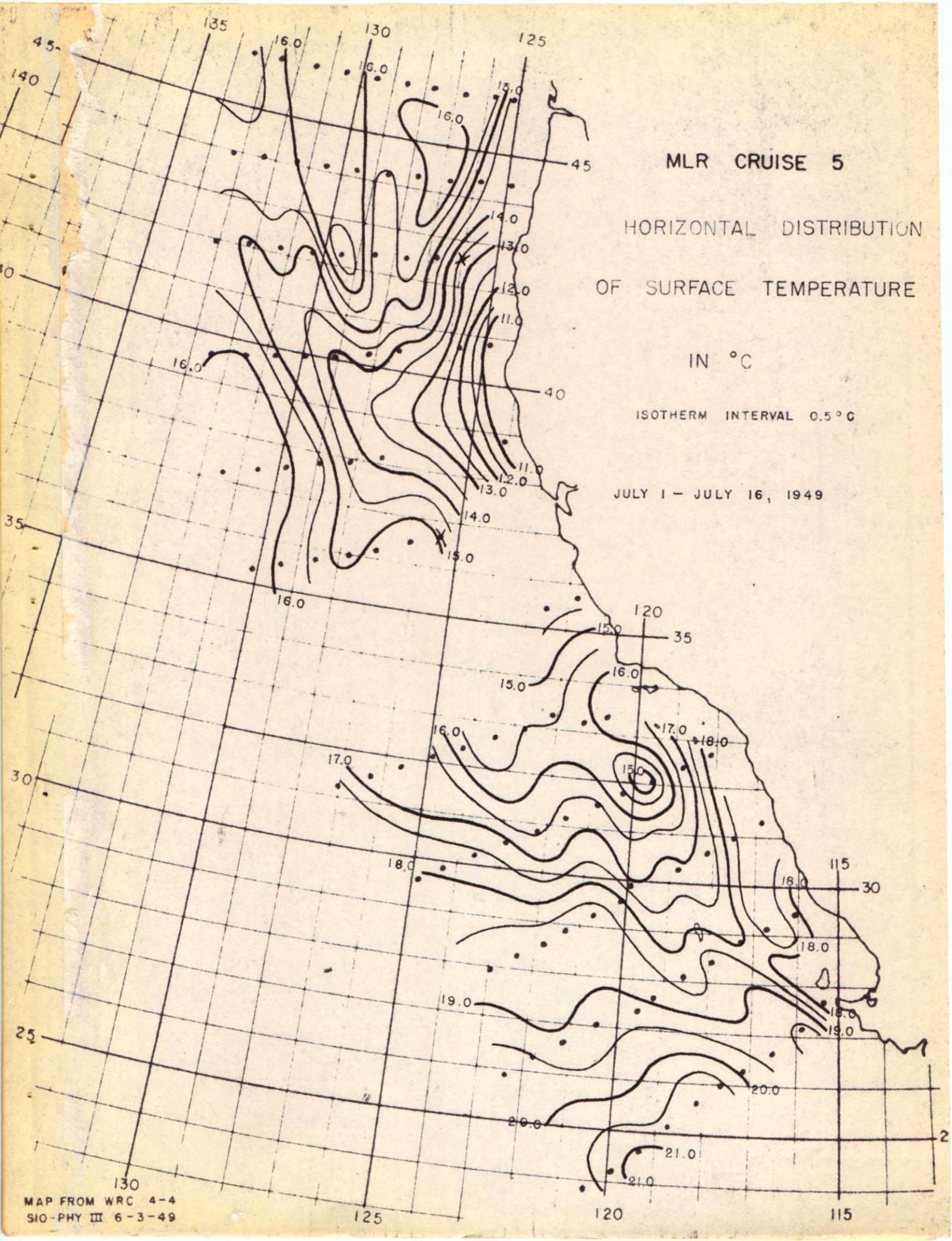
HORIZONTAL DISTRIBUTION

OF SURFACE TEMPERATURE

IN $^{\circ}\text{C}$

ISOTHERM INTERVAL 0.5°C

JULY 1 - JULY 16, 1949

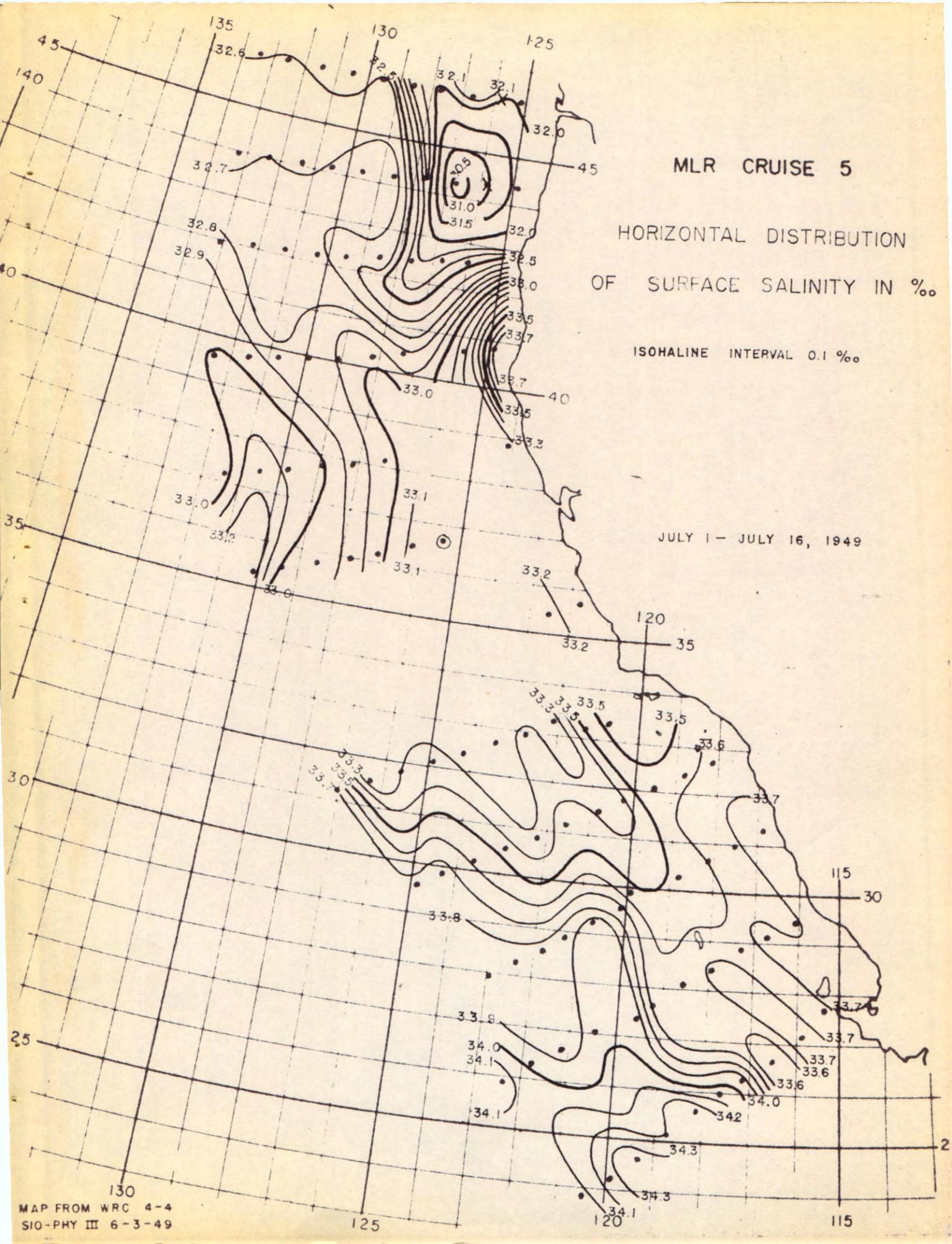


MLR CRUISE 5

HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY IN ‰

ISOHALINE INTERVAL 0.1 ‰

JULY 1 - JULY 16, 1949



MLR CRUISE 5

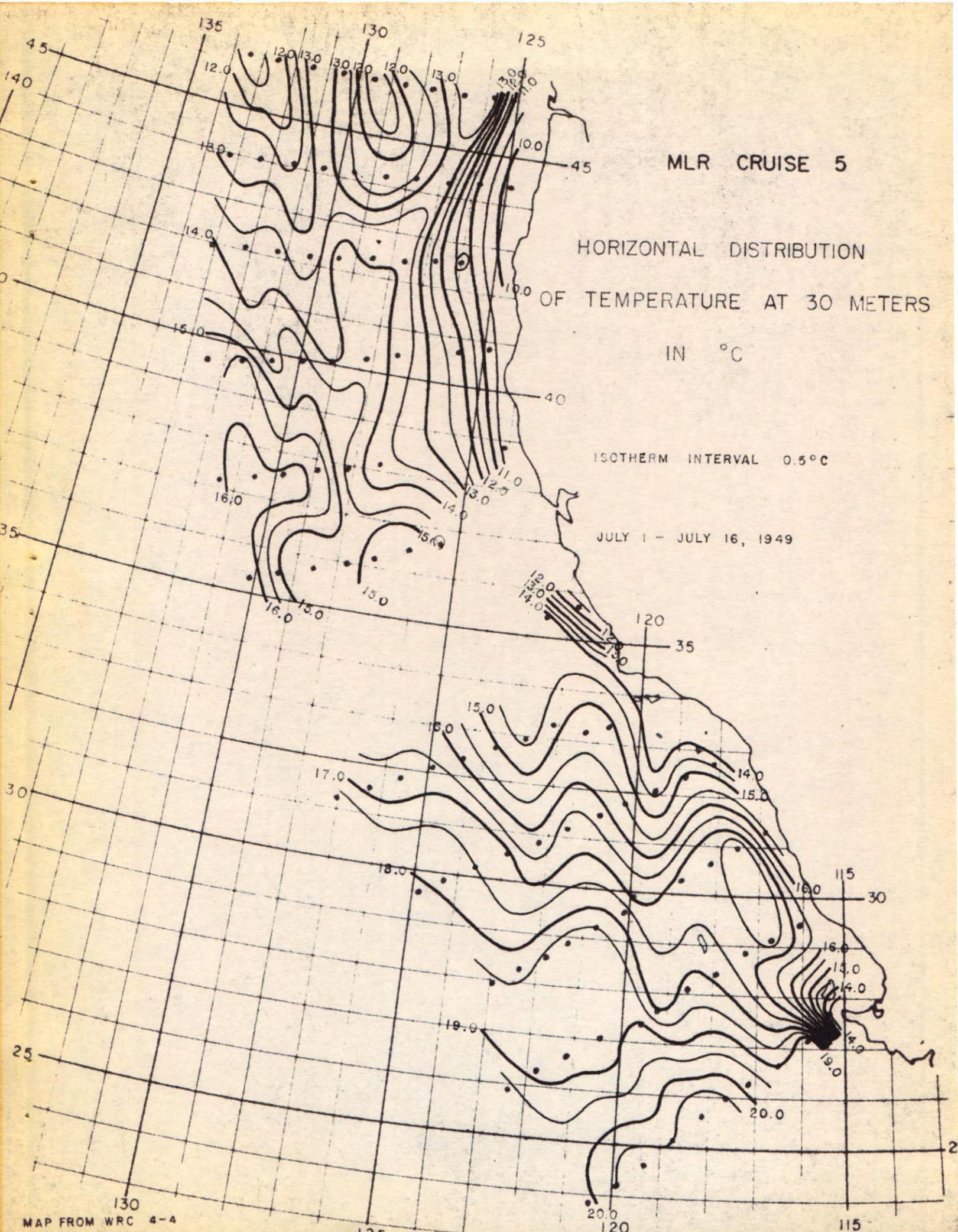
HORIZONTAL DISTRIBUTION

OF TEMPERATURE AT 30 METERS

IN °C

ISOTHERM INTERVAL 0.5°C

JULY 1 - JULY 16, 1949

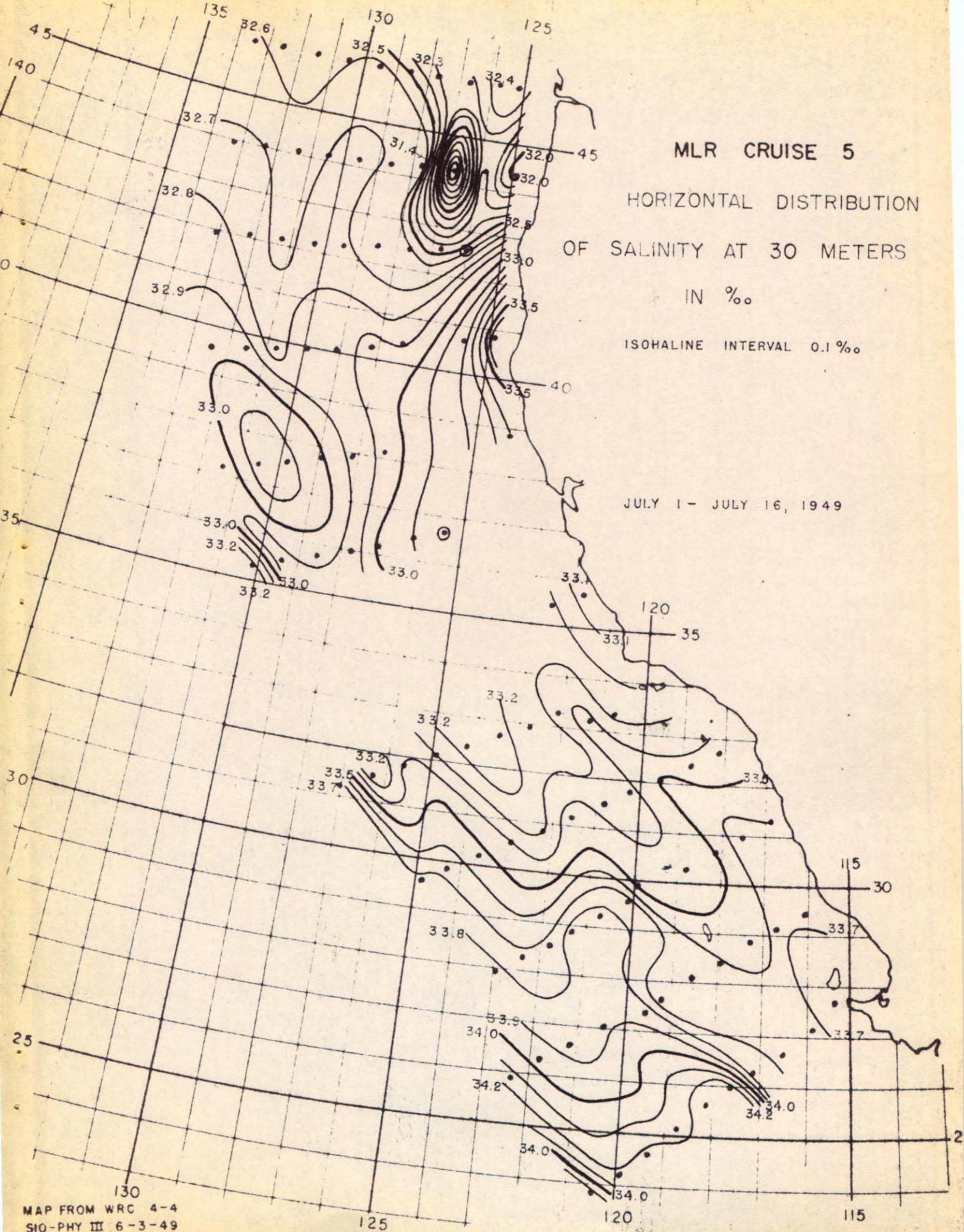


MLR CRUISE 5

HORIZONTAL DISTRIBUTION
OF SALINITY AT 30 METERS
IN ‰

ISOHALINE INTERVAL 0.1 ‰

JULY 1 - JULY 16, 1949

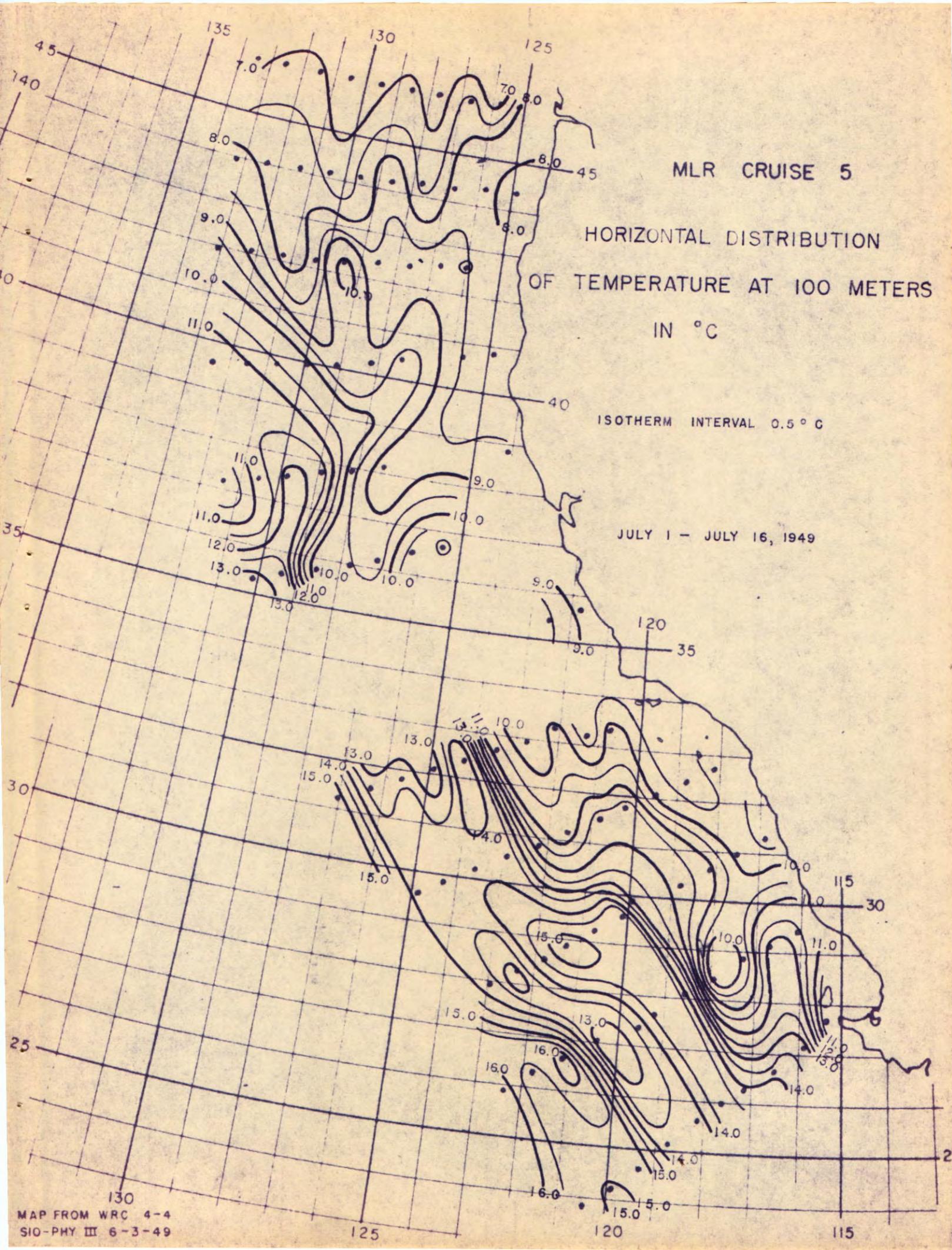


MLR CRUISE 5

HORIZONTAL DISTRIBUTION
OF TEMPERATURE AT 100 METERS
IN $^{\circ}\text{C}$

ISOTHERM INTERVAL 0.5°C

JULY 1 - JULY 16, 1949

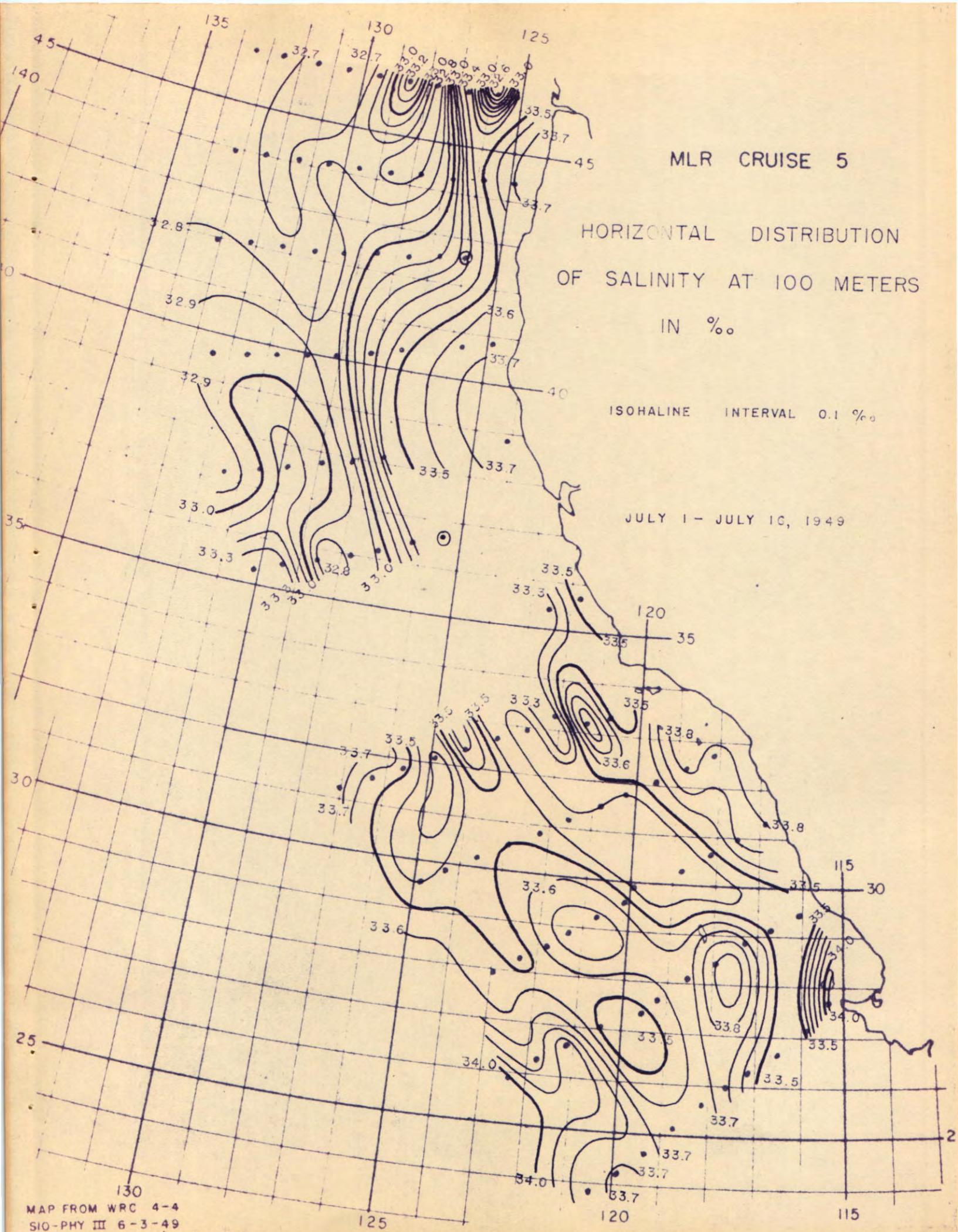


MLR CRUISE 5

HORIZONTAL DISTRIBUTION
OF SALINITY AT 100 METERS
IN ‰.

ISOHALINE INTERVAL 0.1 ‰.

JULY 1 - JULY 10, 1949

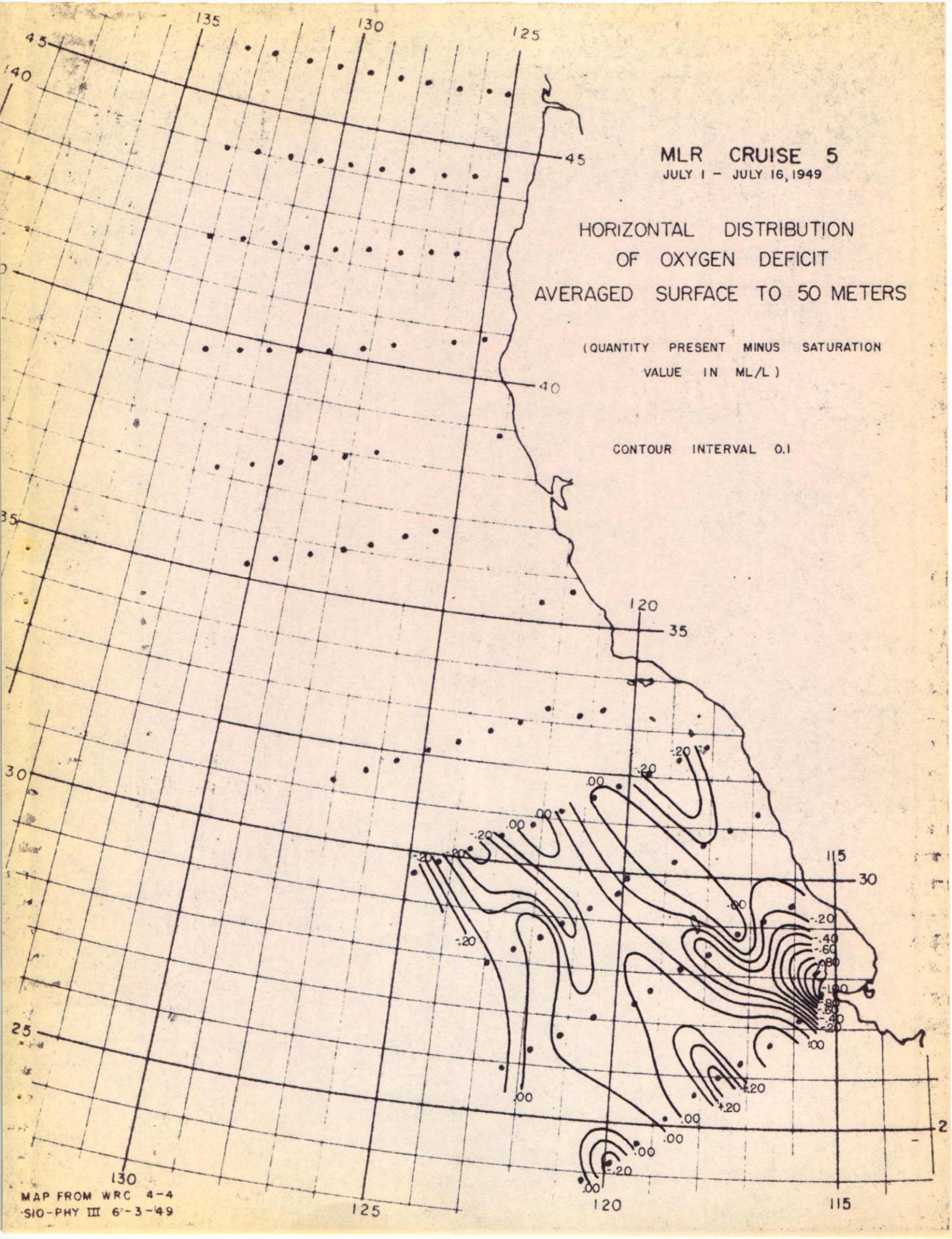


MLR CRUISE 5
JULY 1 - JULY 16, 1949

HORIZONTAL DISTRIBUTION
OF OXYGEN DEFICIT
AVERAGED SURFACE TO 50 METERS

(QUANTITY PRESENT MINUS SATURATION
VALUE IN ML/L)

CONTOUR INTERVAL 0.1

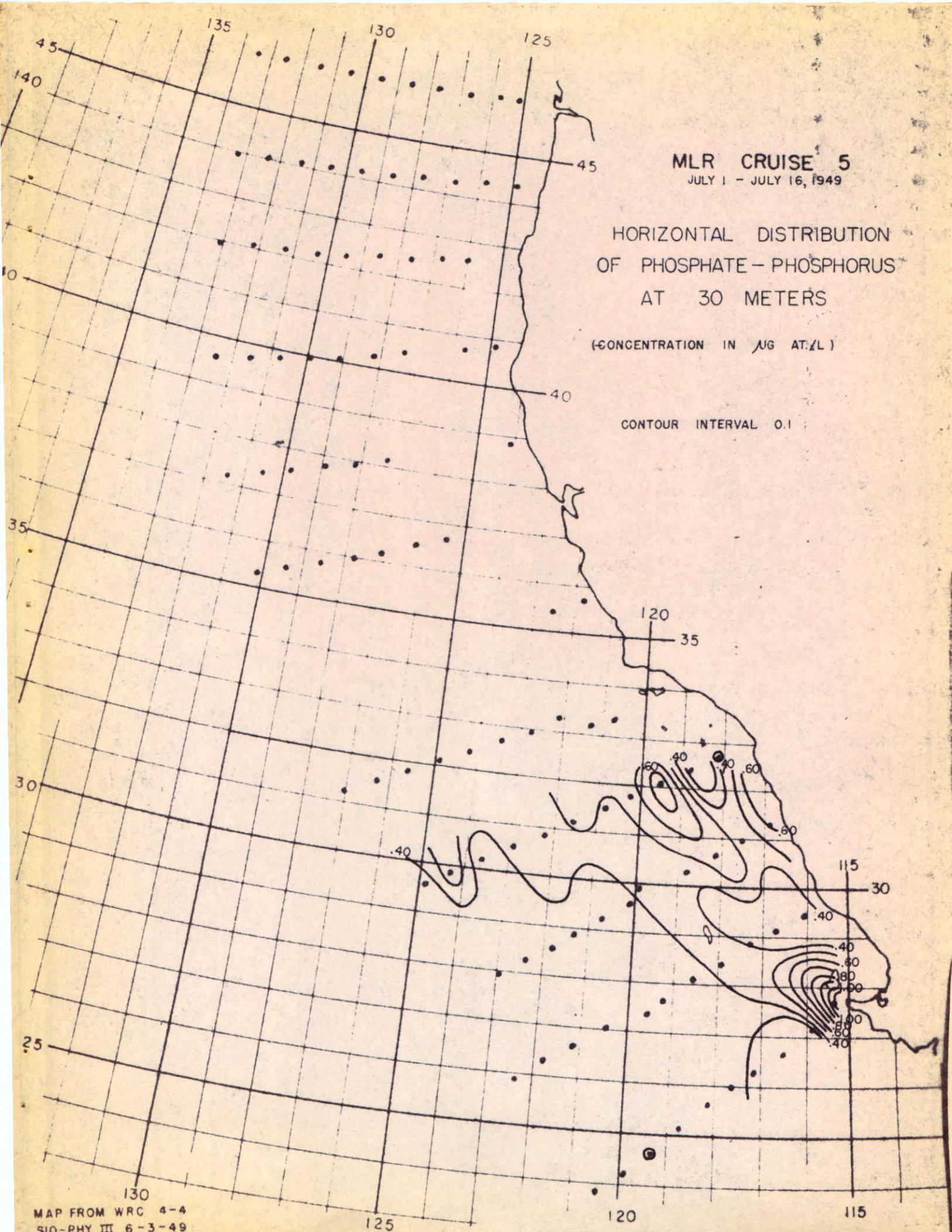


MLR CRUISE 5
JULY 1 - JULY 16, 1949

HORIZONTAL DISTRIBUTION
OF PHOSPHATE - PHOSPHORUS
AT 30 METERS

(CONCENTRATION IN $\mu\text{G AT/L}$)

CONTOUR INTERVAL 0.1



STATION 101 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $125^{\circ}05'W$ July 16, 1949 1056 GCT Wire angle: 18°
 Sounding: 850 fms. Depth of observation: 1,141 m. Weather: partly cloudy
 Sea: very rough Wind: 270° , force 2.

Depth ** (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (mg at/L)
0	14.36	32.03	23.84	406.9	.0000	6.35	0.68
10	14.05	32.00	23.88	403.4	.0407	6.35	0.68
20	13.12	32.33	24.33	361.4	.0791	6.50	0.68
30	11.07	32.45	24.80	316.1	.1131	6.64	0.78
50	8.10	32.55	25.35	263.2	.1713	6.73	1.09
75	6.77	32.75	25.70	231.1	.2334	5.87	1.50
100	8.00	33.42	26.06	198.2	.2874	3.93	1.85
150	8.19	33.82	26.34	172.0	.381	2.60	2.28
200	7.27	33.95	26.58	150.1	.462	2.12	2.54
250	7.35	34.01	26.61	147.4	.537	1.74	2.73
300	7.32	34.05	26.65	144.8	.610	1.43	2.89
400	6.47	34.08	26.79	132.6	.750	1.02	3.09
500	5.39	34.12	26.95	116.9	.876	0.84	3.20
600	4.76	34.17	27.07	106.7	.989	0.77	3.26
700	4.44	34.23	27.15	99.5	1.093	0.69	3.31
800	4.22	34.28	27.21	94.3	1.191	0.62	3.35
1000	3.90	34.37	27.32	85.6	1.373	0.47	3.41

STATION 102 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $125^{\circ}47'W$ July 16, 1949 0505 GCT Wire angle:
 25° Sounding: 1,400 fms. Depth of observation: 983 m. Weather: cloudy
 Sea: very rough Wind 280° , force 4.

0	15.63	-	-	431.6	.0000	6.16	-
10	15.20	31.93	23.53	431.6	.0433	5.99	-
20	14.65	32.20	23.91	400.7	.0851	6.22	-
30	13.85	32.45	24.27	366.9	.1236	6.27	-
50	10.63	32.57	24.97	300.4	.1907	6.34	-
75	7.41	32.64	25.52	247.3	.2596	6.43	-
100	7.00	32.70	25.63	238.1	.3206	6.43	-
150	7.89	33.77	26.35	171.3	.424	2.89	-
200	7.49	33.92	26.52	155.3	.506	2.12	-
250	7.10	33.96	26.61	147.8	.582	2.06	-
300	6.50	34.00	26.72	137.6	.654	1.87	-
400	5.70	34.05	26.86	125.0	.786	1.37	-
500	5.12	34.08	26.95	116.9	.908	1.04	-
600	4.64	34.14	27.06	107.5	1.022	0.83	-
700	4.27	34.20	27.14	99.7	1.126	0.66	-
800	3.97	34.26	27.22	92.8	1.223	0.52	-
1000	3.40	34.37	27.37	79.7	1.398	-	-

** See introduction

STATION 103 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $126^{\circ}44'W$ July 15, 1949 2207, 1933 GCT Wire angle: 10° , 21° Sounding: 1,540 fms. Depth of observation: 987, 1850 m. Weather: cloudy Sea: rough Wind: 20° , force 3.

Depth** (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (Mg at/L)
0	15.89	32.16	23.61	428.9	.0000	-	0.51
10	15.79	32.03	23.53	436.6	.0434	-	0.51
20	15.25	32.06	23.68	423.2	.0866	-	0.52
30	13.75	32.27	24.16	378.1	.1268	-	0.61
50	9.90	32.43	24.99	299.0	.1949	-	0.92
75	7.81	32.71	25.53	247.6	.2636	-	1.59
100	7.80	33.47	26.12	191.6	.3188	-	2.10
150	7.72	33.73	26.34	171.9	.410	-	2.44
200	7.40	33.80	26.44	163.2	.495	-	2.53
250	7.40	33.85	26.48	160.2	.576	-	2.69
300	7.38	33.90	26.52	156.8	.656	-	2.86
400	6.56	34.02	26.73	138.3	.805	-	3.09
500	5.77	34.06	26.86	126.4	.938	-	3.24
600	5.10	34.10	26.97	116.2	1.061	-	3.34
700	4.51	34.16	27.09	105.5	1.173	-	3.40
800	4.00	34.25	27.21	94.0	1.273	-	3.43
1000	3.20	34.40	27.41	75.3	1.445	-	3.46
1200	2.82	34.49	27.52	65.7	1.587	-	3.45
1500	2.34	34.57	27.62	56.1	1.772	-	3.41
2000	(1.91)	(34.62)	(27.70)	(49.6)	(2.041)	-	-

STATION 104 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $127^{\circ}41'W$ July 15, 1949 1410 GCT Wire angle: missing Sounding: 1,500 fms. Depth of observation: 1,181 m. Weather: partly cloudy Sea: rough Wind: 340° *, force 2.

0	15.89	31.96	23.46	443.6	.0000	5.81	-
10	15.78	31.98	23.49	440.1	.0444	5.69	-
20	14.22	32.03	23.87	404.7	.0868	6.24	-
30	12.60	32.30	24.40	354.3	.1249	6.49	-
50	10.66	32.48	24.90	307.6	.1914	6.53	-
75	7.31	32.56	25.48	252.0	.2617	6.53	-
100	6.76	32.68	25.65	236.2	.3232	6.07	-
150	7.59	33.61	26.26	179.2	.4278	3.09	-
200	7.11	33.83	26.50	157.0	.512	2.52	-
250	7.24	33.90	26.54	154.2	.591	2.08	-
300	7.25	33.94	26.57	151.9	.668	1.76	-
400	6.30	33.95	26.71	140.4	.815	1.27	-
500	5.40	34.03	26.88	123.9	.949	0.82	-
600	4.81	34.12	27.02	111.2	1.067	0.54	-
700	4.40	34.22	27.15	99.8	1.174	0.49	-
800	4.09	34.29	27.24	91.8	1.270	0.46	-
1000	3.56	34.35	27.34	83.1	1.447	0.39	-

** See introduction

STATION 105 (Interpolated Values at Standard Depths)

BLACK DOUGLASS: $46^{\circ}15'N$ $128^{\circ}33'W$ July 15, 1949 0620 GCT Wire angle: 0°
 Sounding: 1,510 fms. Depth of observation: 1,250 m. Weather: overcast
 Sea: rough Wind: 020° , force 2.

Depth ** (m)	T (°C)	S (°/oo)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	15.95	32.12	23.57	433.0	.0000	-	-
10	15.00	32.32	23.93	398.9	.0418	-	-
20	13.52	32.44	24.33	361.0	.0799	-	-
30	12.37	32.50	24.60	335.4	.1149	-	-
50	11.12	32.56	24.88	309.3	.1797	-	-
75	7.80	32.83	25.62	238.9	.2436	-	-
100	7.21	33.23	26.06	193.2	.3036	-	-
150	6.86	33.80	26.51	155.0	.392	-	-
200	6.74	33.95	26.65	143.3	.463	-	-
250	6.38	33.96	26.70	138.3	.538	-	-
300	5.98	33.98	26.77	132.5	.607	-	-
400	5.42	34.16	26.97	113.5	.731	-	-
.500	4.98	34.21	27.07	105.2	.841	-	-
600	4.58	34.23	27.13	100.2	.945	-	-
700	4.24	34.27	27.20	94.3	1.043	-	-
800	3.94	34.31	27.27	88.8	1.135	-	-
1000	3.44	34.37	27.36	80.2	1.306	-	-

STATION 106 (Interpolated Values at Standard Depths)

BLACK DOUGLASS: $46^{\circ}15'N$ $129^{\circ}35'W$ July 14, 1949 2235 GCT Wire angle: 0°
 Sounding: 1,200 fms. Depth of observation: 1,090 m. Weather: partly
 cloudy Sea: rough Wind: calm.

0	15.80	32.61	23.97	394.1	.0000	6.00	-
10	14.59	32.63	24.25	367.8	.0382	6.12	-
20	13.15	32.63	24.55	339.9	.0738	6.30	-
30	11.18	32.63	24.92	304.8	.1061	6.45	-
50	8.24	32.68	25.44	255.5	.1624	6.75	-
75	7.06	32.72	25.64	236.8	.2243	6.63	-
100	6.58	32.74	25.72	229.9	.2830	6.55	-
150	6.47	33.55	26.37	168.6	.383	4.70	-
200	6.37	33.87	26.64	144.2	.462	3.55	-
250	6.43	33.94	26.68	140.5	.534	2.85	-
300	6.42	33.97	26.71	138.7	.604	2.21	-
400	5.41	34.05	26.90	121.6	.735	1.18	-
500	4.80	34.11	27.02	110.7	.852	0.69	-
600	4.35	34.16	27.10	102.8	.960	0.48	-
700	4.00	34.23	27.20	94.4	1.060	0.41	-
800	3.75	34.31	27.28	86.7	1.151	0.40	-
1000	3.26	34.40	27.41	75.9	1.316	0.38	-

** See introduction

STATION 107 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $131^{\circ}33'W$ July 14, 1949 1523 GCT Wire angle: 3°
 Sounding: 500 fms. Depth of observation: 911 m. Weather: overcast
 Sea: moderate Wind: $120^{\circ}*$, force 1.

Depth ** (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (μ g at/L)
0	16.31	32.54	23.81	410.1	.0000	-	0.97
10	15.27	32.54	24.04	388.4	.0401	-	0.93
20	14.00	32.57	24.33	360.8	.0777	-	0.94
30	12.90	32.59	24.56	338.4	.1128	-	0.97
50	8.90	32.59	25.26	271.8	.1741	-	1.08
75	7.30	32.59	25.50	249.7	.2397	-	1.24
100	6.70	32.61	25.60	240.7	.3014	-	1.38
150	6.45	33.42	26.27	178.0	.407	-	2.05
200	6.35	33.79	26.58	149.9	.489	-	2.16
250	6.42	33.86	26.62	146.2	.564	-	2.39
300	6.40	33.89	26.65	144.5	.637	-	2.67
400	5.50	33.98	26.83	127.9	.774	-	3.18
500	4.90	34.08	26.98	114.1	.896	-	3.29
600	4.42	34.17	27.10	102.8	1.006	-	3.32
700	3.97	34.25	27.21	92.5	1.104	-	3.32
800	3.58	34.32	27.31	83.9	1.194	-	3.32
1000	3.12	34.41	27.43	73.6	1.353	-	-

STATION 108 (Interpolated Values at Standard Depths)

BLACK DOUGLÁS: $46^{\circ}15'N$ $131^{\circ}30'W$ July 14, 1949 0830 GCT Wire angle 5°
 Sounding: 1,700 fms. Depth of observation: 1,196 m. Weather: fog in
 patches Sea: slight Wind: calm.

0	16.44	32.59	23.81	409.3	.0000	6.23	-
10	14.99	32.57	24.12	380.4	.0396	6.17	-
20	14.12	32.57	24.31	363.1	.0770	6.57	-
30	13.31	32.57	24.47	347.6	.1126	6.65	-
50	11.84	32.57	24.75	321.1	.1798	6.51	-
75	8.45	32.57	25.32	267.0	.2538	6.52	-
100	7.14	32.61	25.54	246.4	.3184	6.53	-
150	6.56	33.28	26.15	189.8	.428	5.48	-
200	5.59	33.76	26.65	142.9	.512	4.28	-
250	5.89	33.90	26.72	136.6	.582	3.35	-
300	6.16	33.95	26.72	137.0	.651	2.61	-
400	5.32	33.96	26.84	127.2	.784	1.66	-
500	4.90	34.03	26.94	117.8	.908	0.97	-
600	4.55	34.13	27.06	107.2	1.022	0.58	-
700	4.18	34.21	27.16	97.7	1.125	0.53	-
800	3.84	34.28	27.25	89.8	1.220	0.51	-
1000	3.30	34.38	27.39	77.9	1.389	0.48	-

** See introduction

STATION 109 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $132^{\circ}33'W$ July 14, 1949 0050 GCT Wire angle: 10°
 Sounding: 1,400 fms. Depth of observation: 1,117 m. Weather: overcast
 Sea: high Wind: $220^{\circ}*$, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	15.92	32.61	23.95	396.6	.0000	-	0.93
10	14.32	32.54	24.25	369.0	.0384	-	0.66
20	12.90	32.56	24.54	340.4	.0740	-	0.65
30	11.74	32.57	24.77	318.9	.1071	-	0.66
50	8.95	32.58	25.25	273.3	.1667	-	1.01
75	7.48	32.64	25.51	248.2	.2322	-	1.18
100	7.12	32.78	25.68	234.0	.2929	-	1.38
150	7.10	33.47	26.22	182.8	.398	-	1.92
200	7.03	33.81	26.50	157.4	.483	-	2.09
250	7.08	33.85	26.52	155.8	.562	-	2.17
300	7.10	33.88	26.54	154.5	.641	-	2.29
400	6.15	33.92	26.70	140.2	.789	-	2.82
500	5.15	33.97	26.86	125.2	.923	-	3.03
600	4.56	34.07	27.01	111.8	1.042	-	3.10
700	4.19	34.14	27.11	103.1	1.151	-	3.13
800	3.89	34.21	27.19	95.5	1.251	-	3.16
1000	3.40	34.36	27.36	80.4	1.429	-	3.22

STATION 110 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $46^{\circ}15'N$ $133^{\circ}24'W$ July 13, 1949 1755, 1405 GCT Wire angle: missing, 0° Sounding: 2,100 fms. Depth of observation: 1150, 2517 m. Weather: fog, increasing within last hour Sea: moderate Wind: calm.

0	15.29	32.59	24.07	384.8	.0000	5.77	0.72
10	14.41	32.61	24.28	365.7	.0377	5.92	0.86
20	13.25	32.61	24.51	343.3	.0733	6.01	0.86
30	11.22	32.62	24.91	306.1	.1059	6.07	0.85
50	8.60	32.66	25.37	262.2	.1630	6.15	1.30
75	7.30	32.66	25.56	244.4	.2267	6.02	1.42
100	6.86	32.71	25.66	235.7	.2871	6.05	1.48
150	7.17	33.42	26.17	187.5	.394	4.32	2.03
200	6.97	33.80	26.50	157.6	.480	3.15	2.24
250	6.88	33.87	26.57	151.4	.558	2.62	2.46
300	6.79	33.92	26.62	147.1	.633	2.16	2.68
400	6.30	33.98	26.73	137.9	.777	1.36	3.02
500	5.31	34.05	26.91	121.4	.908	0.78	3.20
600	4.53	34.12	27.05	107.8	1.023	0.58	3.29
700	4.07	34.16	27.13	100.4	1.129	0.56	3.32
800	3.76	34.17	27.17	97.1	1.228	0.55	3.34
1000	3.25	34.30	27.33	83.3	1.411	0.50	3.37
1200	2.80	34.47	27.50	66.9	1.563	0.83	-
1500	2.42	34.56	27.61	57.8	1.752	1.17	-
2000	2.04	34.61	27.68	52.0	2.031	1.65	-
2500	1.71	34.63	27.72	48.0	2.285	2.10	-

STATION 201 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 44°23'N 124°55'W July 10, 1949 0230 GCT Wire angle: 12° Sounding: 740 fms. Depth of observation: 1,101 m. Weather: overcast Sea: very rough Wind: 360°*, force 4*.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (μg at/L)
0	14.30	31.62	23.54	435.8	.7000	5.90	0.63
10	14.21	31.66	23.60	431.5	.0435	5.86	0.63
20	14.06	31.69	23.64	426.5	.0866	6.79	0.67
30	9.72	31.96	24.65	330.7	.1246	6.76	0.71
50	8.36	32.77	25.49	250.4	.1830	5.33	1.58
75	7.90	33.33	26.00	203.2	.2400	4.13	2.24
100	7.62	33.70	26.33	172.1	.2872	3.13	2.29
150	7.42	33.92	26.53	153.7	.369	2.27	2.56
200	7.29	34.01	26.62	145.8	.445	1.78	2.70
250	6.77	34.05	26.72	136.6	.516	1.46	2.82
300	6.43	34.07	26.79	131.4	.583	1.29	2.99
400	5.56	34.13	26.94	117.3	.709	0.89	3.24
500	4.96	34.20	27.07	105.8	.821	0.46	3.24
600	4.65	34.24	27.14	100.4	.925	0.35	3.27
700	4.38	34.29	27.20	94.3	1.023	0.32	3.34
800	4.13	34.33	27.26	89.3	1.116	0.33	3.36
1000	3.63	34.41	27.40	76.2	1.283	0.40	3.36

STATION 202 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 44°20'N 125°50'W July 10, 1949 0810 GCT Wire angle: 29° Sounding: 1,580 fms. Depth of observation: 941 m. Weather: overcast Sea: very rough Wind: 320°, force 3.

0	14.81	-	-	452.6	.0000	-	0.77
10	14.47	31.44	23.37	452.6	.0454	-	0.71
20	11.95	32.11	24.38	356.2	.0860	-	0.67
30	11.00	32.31	24.70	325.4	.1203	-	0.70
50	8.45	32.66	25.39	259.9	.1791	-	1.34
75	8.20	33.22	25.87	215.6	.2388	-	1.84
100	8.14	33.54	26.13	191.4	.2900	-	2.23
150	7.67	33.94	26.51	155.7	.377	-	2.41
200	7.48	33.97	26.56	151.3	.455	-	2.45
250	7.34	33.98	26.59	149.5	.530	-	2.52
300	7.04	33.99	26.64	145.4	.605	-	2.65
400	5.94	34.09	26.86	125.2	.741	-	3.09
500	5.26	34.16	27.00	112.2	.861	-	3.32
600	4.77	34.23	27.11	102.4	.969	-	3.43
700	4.39	34.30	27.21	93.6	1.068	-	3.48
800	4.05	34.35	27.29	87.0	1.159	-	3.50
1000	(3.45)	(34.45)	(27.43)	(74.4)	(1.322)	-	-

**See Introduction

STATION 203 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}17'N$ $126^{\circ}46'W$ July 10, 1949 1520 GCT Wire angle:
missing Sounding: 1,620 fms. Depth of observation: 849 m. Weather:
overcast Sea: rough Wind: $330^{\circ}*$, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	16.40	30.37	22.13	570.7	.0000	-	0.58
10	16.32	30.25	22.05	578.0	.0577	-	0.60
20	15.88	30.56	22.38	546.3	.1141	-	0.62
30	13.40	31.41	23.56	434.6	.1633	-	0.64
50	12.34	32.64	24.70	324.8	.2397	-	0.78
75	8.65	32.68	25.38	261.9	.3134	-	1.24
100	8.15	32.92	25.64	237.4	.3762	-	1.38
150	8.13	33.45	26.06	198.7	.486	-	1.66
200	7.25	33.84	26.49	158.2	.576	-	2.33
250	6.85	33.93	26.62	146.6	.653	-	2.74
300	6.70	33.99	26.69	141.0	.725	-	2.91
400	6.69	34.06	26.74	136.7	.865	-	3.02
500	5.38	34.13	26.96	116.2	.993	-	3.22
600	4.63	34.21	27.12	101.9	1.103	-	3.39
700	4.17	34.28	27.22	92.5	1.201	-	3.47
800	3.87	34.35	27.30	85.0	1.291	-	3.52
1000	(3.46)	(34.44)	(27.42)	(75.2)	(1.453)	-	-

STATION 204 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}14'N$ $127^{\circ}44'W$ July 10, 1949 2240 GCT Wire angle:
 22° Sounding: 1,580 fms. Depth of observation: 1,143 m. Weather: partly
cloudy Sea: rough Wind: $010^{\circ}*$, force 3.

0	15.61	32.30	23.78	412.8	.0000	-	-
10	15.35	32.51	24.00	392.2	.0404	-	-
20	13.93	32.65	24.40	353.5	.0778	-	-
30	12.50	32.64	24.67	327.4	.1120	-	-
50	10.70	32.59	24.97	300.0	.1751	-	-
75	8.30	32.68	25.43	256.7	.2450	-	-
100	7.41	32.70	26.58	243.5	.3080	-	-
150	7.43	33.65	26.32	173.9	.413	-	-
200	7.63	33.91	26.49	158.2	.497	-	-
250	7.00	33.95	26.61	147.3	.574	-	-
300	6.66	33.98	26.69	140.2	.646	-	-
400	7.10	34.06	26.69	142.6	.788	-	-
500	5.49	34.10	26.93	119.7	.921	-	-
600	4.70	34.18	27.08	105.3	1.034	-	-
700	4.27	34.27	27.20	94.5	1.135	-	-
800	3.95	34.35	27.30	85.8	1.226	-	-
1000	3.55	34.44	27.41	76.4	1.390	-	-

STATION 205 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}12'N$ $128^{\circ}37'W$ July 11, 1949 0610 GCT Wire angle: 18°
 Sounding: 1,560 fms. Depth of observation: 1,078 m. Weather: cloudy
 Sea: rough Wind: $360^{\circ}*$, force 3.

Depth** (m)	T (°C)	S (°/oo)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (mg at/L)
0	15.49	32.73	24.14	378.8	.0000	6.01	0.68
10	15.00	32.68	24.21	372.5	.0377	5.55	0.53
20	14.09	32.66	24.38	355.9	.0743	5.96	0.53
30	12.70	32.65	24.65	330.2	.1087	6.34	0.54
50	9.55	32.63	25.20	278.7	.1699	6.66	0.75
75	8.69	32.66	25.36	264.0	.2381	6.34	0.79
100	8.40	32.66	25.40	260.0	.3041	6.29	0.83
150	8.22	33.18	25.83	212.0	.423	3.14	1.95
200	7.78	33.92	26.48	159.3	.516	2.63	2.09
250	7.88	33.96	26.50	158.6	.596	2.46	2.22
300	6.90	33.99	26.66	143.6	.672	2.20	2.40
400	6.57	34.07	26.77	134.6	.813	1.31	2.71
500	5.89	34.12	26.89	123.2	.943	0.83	2.92
600	5.09	34.17	27.03	110.8	1.061	0.62	3.01
700	4.56	34.24	27.15	100.0	1.167	0.53	3.05
800	4.16	34.32	27.25	90.3	1.263	0.50	3.07
1000	3.64	34.42	27.38	78.9	1.434	0.44	3.09

STATION 206 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}09'N$ $129^{\circ}35'W$ July 11, 1949 1300 GCT Wire angle: 10°
 Sounding: 1,300 fms. Depth of observation: 1,186 m. Weather: fog
 Sea: rough Wind: $030^{\circ}*$, force 3.

0	16.08	32.74	24.01	390.6	.0000	5.97	0.63
10	15.75	32.75	24.10	383.1	.0388	5.45	0.56
20	14.50	32.75	24.36	357.5	.0760	5.54	0.52
30	12.50	32.74	24.75	320.0	.1100	5.75	0.53
50	8.90	32.69	25.34	264.3	.1688	6.11	0.84
75	7.82	32.66	25.49	251.5	.2336	6.17	1.18
100	7.54	32.77	25.61	240.0	.2954	6.15	1.69
150	7.34	33.46	26.18	186.8	.403	4.63	1.70
200	7.49	33.81	26.44	163.3	.491	3.89	1.98
250	6.58	33.91	26.64	144.5	.569	3.23	2.25
300	5.90	33.95	26.76	133.8	.639	2.61	2.51
400	5.30	34.00	26.87	124.1	.769	1.39	2.83
500	4.81	34.12	27.02	110.2	.887	0.66	3.12
600	4.40	34.24	27.16	97.5	.992	0.45	3.21
700	4.05	34.31	27.25	89.2	1.036	0.47	3.22
800	3.75	34.37	27.33	82.1	1.172	0.48	3.22
1000	3.26	34.46	27.45	71.6	1.328	0.51	3.23

** See introduction

STATION 207 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}06'N$ $130^{\circ}29'W$ July 11, 1949 2010 GCT Wire angle: 23°
 Sounding: 1,800 fms. Depth of observation: 1,125 m. Weather: moderate,
 fog in last hour Sea: rough Wind: 350° *, force 2.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (μg at/L)
0	16.35	32.72	23.94	397.7	.0000	6.00	-
10	15.93	32.70	24.01	390.5	.0396	5.02	-
20	14.17	32.70	24.40	354.6	.0770	5.98	-
30	13.42	32.70	24.35	340.2	.1118	6.18	-
50	11.80	32.66	24.83	313.8	.1776	6.30	-
75	7.95	32.69	25.48	251.0	.2486	6.14	-
100	7.40	32.81	25.66	235.4	.3098	5.65	-
150	7.30	33.69	26.37	169.1	.412	3.87	-
200	6.73	33.96	26.66	142.3	.490	3.33	-
250	6.23	33.98	26.74	135.0	.560	2.63	-
300	5.78	33.98	26.80	130.3	.627	1.94	-
400	5.06	34.02	26.91	119.6	.752	1.20	-
500	4.69	34.11	27.03	109.3	.868	0.73	-
600	4.36	34.19	27.13	100.7	.974	0.58	-
700	4.05	34.26	27.22	92.8	1.071	0.56	-
800	3.76	34.31	27.28	86.6	1.162	0.53	-
1000	3.25	34.40	27.41	75.8	1.326	0.45	-

STATION 208 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}03'N$ $131^{\circ}24'W$ July 12, 1949 0525 GCT Wire angle: 17°
 Sounding: 1,800 fms. Depth of observation: 1,155 m. Weather: fog
 Sea: very rough Wind: 320° , force 3.

0	16.00	32.68	23.99	393.2	.0000	-	0.43
10	15.80	32.70	24.04	387.8	.0392	-	0.64
20	13.95	32.68	24.43	351.7	.0763	-	0.32
30	12.40	32.69	24.73	321.8	.1101	-	0.30
50	10.26	32.75	25.17	281.0	.1707	-	0.84
75	8.51	32.68	25.40	259.7	.2387	-	1.01
100	7.88	32.77	25.57	244.4	.3021	-	1.03
150	7.10	33.11	25.94	209.6	.416	-	1.17
200	6.83	33.65	26.40	166.3	.511	-	1.60
250	6.41	33.89	26.65	144.0	.589	-	1.92
300	5.86	33.97	26.78	131.8	.659	-	2.24
400	4.96	34.05	26.95	115.8	.784	-	2.73
500	4.41	34.13	27.07	104.9	.895	-	2.85
600	4.03	34.20	27.17	96.1	.996	-	2.96
700	3.76	34.27	27.25	88.8	1.090	-	3.05
800	3.56	34.33	27.32	82.9	1.176	-	3.14
1000	3.30	34.44	27.43	73.5	1.334	-	3.29

** See introduction

STATION 209 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}01'N$ $132^{\circ}20'W$ July 12, 1949 1300 GCT Wire angle:
missing Sounding: 2,000 fms. Depth of observation: 1,200 m. Weather:
overcast Sea: moderate Wind: 120° , force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (mg at/L)
0	15.72	32.70	24.07	385.8	.0000	5.93	0.67
10	15.59	32.66	24.06	386.3	.0388	5.50	0.63
20	14.50	32.70	24.32	361.1	.0763	5.50	0.64
30	12.92	32.70	24.65	330.8	.1110	5.53	0.71
50	10.71	32.69	25.04	292.8	.1737	5.86	0.88
75	8.94	32.72	25.36	263.1	.2436	5.90	1.07
100	7.81	32.68	25.51	250.1	.3081	6.09	1.15
150	6.92	33.15	26.00	204.2	.422	5.51	1.52
200	6.71	33.75	26.50	157.2	.513	4.40	1.91
250	6.39	33.88	26.64	144.4	.589	2.87	2.26
300	6.07	33.95	26.74	135.9	.660	2.24	2.54
400	5.38	34.00	26.86	125.1	.791	1.59	2.90
500	4.58	34.06	27.00	111.9	.911	1.09	3.06
600	3.99	34.15	27.13	99.4	1.018	0.81	3.13
700	3.61	34.23	27.23	90.2	1.113	0.75	3.16
800	3.35	34.29	27.31	83.5	1.201	0.69	3.16
1000	3.06	34.38	27.41	75.0	1.361	0.58	3.19

STATION 210 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $43^{\circ}59'N$ $133^{\circ}15'W$ July 12, 1949 1943 GCT Wire angle:
missing Sounding: 2,010 fms. Depth of observation: 600 m. Weather: fog
Sea: rough Wind: 320° , force 2.

0	15.74	32.68	24.05	387.7	.0000	-	-
10	15.63	32.65	24.04	387.8	.0389	-	-
20	14.95	32.70	24.23	370.3	.0770	-	-
30	12.95	32.72	24.66	329.8	.1121	-	-
50	10.86	32.66	25.00	297.6	.1752	-	-
75	8.98	32.68	25.33	266.7	.2461	-	-
100	8.44	32.75	25.46	254.3	.3117	-	-
150	7.56	33.16	25.92	211.9	.429	-	-
200	6.95	33.60	26.34	172.2	.526	-	-
250	-	33.80	-	-	-	-	-
300	-	33.87	-	-	-	-	-
400	-	33.91	-	-	-	-	-
500	-	34.01	-	-	-	-	-
600	-	34.13	-	-	-	-	-

STATION 303 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}30'N$ $126^{\circ}48'W$ July 8, 1949 2232, 1937 GCT Wire angle: 32° , 44° Sounding: 1,500 fms. Depth of observation: 928, 1205 m. Weather: overcast Sea: high Wind: $220^{\circ}*$, 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 (mg at/L)
0	14.98	32.38	23.98	393.8	.0000	-	-
10	14.91	32.23	23.89	403.7	.0400	-	-
20	14.76	32.30	23.94	395.7	.0802	-	-
30	12.19	32.44	24.58	336.5	.1169	-	-
50	10.44	32.69	25.10	288.6	.1797	-	-
75	9.13	32.93	25.50	250.6	.2475	-	-
100	8.65	33.09	25.70	232.0	.3082	-	-
150	8.35	33.70	26.22	183.3	.413	-	-
200	7.86	33.83	26.40	167.2	.501	-	-
250	7.10	33.91	26.57	151.4	.581	-	-
300	6.20	33.99	26.75	134.4	.653	-	-
400	5.40	34.10	26.94	117.6	.780	-	-
500	4.97	34.18	27.05	107.5	.894	-	-
600	4.60	34.25	27.15	99.0	.998	-	-
700	4.27	34.30	27.22	92.2	1.094	-	-
800	4.00	34.34	27.28	87.0	1.185	-	-
1000	3.50	34.45	27.42	75.0	1.349	-	-
1200	3.05	34.51	27.51	66.7	1.492	-	-

STATION 304 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}25'N$ $127^{\circ}41'W$ July 8, 1949 1225 GCT Wire angle: 10° Sounding: 1,600 fms. Depth of observation: 1,112 m. Weather: overcast Sea: high Wind: $210^{\circ}*$, force 4.

0	15.80	32.32	23.75	415.3	.0000	4.74	-
10	15.14	32.36	23.93	398.8	.0409	5.16	-
20	14.59	32.54	24.18	374.6	.0797	5.12	-
30	13.87	32.62	24.39	354.7	.1163	4.96	-
50	11.52	32.75	24.95	302.4	.1823	4.70	-
75	8.93	32.91	25.52	249.0	.2516	5.13	-
100	8.59	33.13	25.74	228.0	.3117	3.14	-
150	7.90	33.84	26.40	166.3	.411	2.50	-
200	7.01	33.90	26.57	150.3	.491	2.62	-
250	6.79	33.89	26.60	148.9	.566	2.72	-
300	6.63	33.90	26.63	146.5	.640	2.75	-
400	6.25	34.00	26.75	135.7	.782	2.19	-
500	5.75	34.13	26.92	120.8	.912	0.72	-
600	5.24	34.20	27.04	110.4	1.028	0.37	-
700	4.74	34.24	27.12	102.2	1.136	0.30	-
800	4.25	34.28	27.21	94.4	1.235	0.31	-
1000	3.53	34.41	27.39	78.1	1.409	0.44	-

**See introduction

STATION 305 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}21'N$ $128^{\circ}35'W$ July 8, 1949 0535 GCT Wire angle:
 5° Sounding: 1,800 fms. Depth of observation: 1,196 m. Weather:
 overcast Sea: rough Wind: 270° , force 3.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	15.41	32.64	24.08	383.7	.0000	-	-
10	14.92	32.64	24.19	373.9	.0380	-	-
20	14.50	32.64	24.27	365.5	.0752	-	-
30	13.80	32.64	24.42	352.0	.1112	-	-
50	11.55	32.66	24.87	309.4	.1776	-	-
75	8.96	32.77	25.40	259.9	.2492	-	-
100	8.55	33.14	25.75	226.8	.3104	-	-
150	8.13	33.71	26.26	179.3	.413	-	-
200	7.92	33.96	26.49	158.2	.498	-	-
250	7.31	34.02	26.63	146.1	.574	-	-
300	6.65	34.05	26.74	135.8	.645	-	-
400	6.28	34.16	26.87	124.2	.776	-	-
500	5.60	34.21	27.00	113.1	.896	-	-
600	4.84	34.24	27.11	102.6	1.005	-	-
700	4.43	34.30	27.21	93.9	1.104	-	-
800	4.14	34.34	27.27	88.5	1.196	-	-
1000	3.61	34.42	27.39	78.4	1.365	-	-

STATION 306 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}16'N$ $129^{\circ}30'W$ July 7, 1949 2250 GCT Wire angle:
 0° Sounding: 1,825 fms. Depth of observation: 1,200 m. Weather:
 partly cloudy Sea: rough Wind: calm.

0	16.85	32.63	23.76	415.4	.0000	5.70	-
10	14.44	32.59	24.25	367.7	.0393	5.70	-
20	14.26	32.62	24.32	362.1	.0760	5.79	-
30	14.14	32.71	24.41	353.7	.1119	5.88	-
50	13.73	32.84	24.59	336.5	.1812	5.85	-
75	12.08	32.69	24.79	316.9	.2634	6.14	-
100	10.24	32.79	25.21	279.1	.3384	5.75	-
150	7.92	33.33	26.00	204.5	.460	4.74	-
200	6.84	33.89	26.59	148.9	.549	3.35	-
250	6.21	33.91	26.69	139.8	.622	2.86	-
300	5.68	33.93	26.77	132.4	.690	2.44	-
400	4.97	34.02	27.92	119.2	.817	1.40	-
500	4.59	34.10	27.03	108.9	.932	0.82	-
600	4.32	34.18	27.12	101.0	1.038	0.54	-
700	4.07	34.26	27.21	92.8	1.136	0.42	-
800	3.84	34.34	27.30	85.3	1.226	0.37	-
1000	3.40	34.41	27.40	76.7	1.390	-	-

**See introduction

STATION 307 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}11'N$ $130^{\circ}22'W$ July 7, 1949 1640 GCT Wire angle:
missing Sounding: 1,900 fms. Depth of observation: 1,183 m. Weather:
overcast 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	14.77	32.76	24.32	361.9	0000	-	-
10	14.60	32.77	24.36	358.1	.0361	-	-
20	14.17	32.77	24.45	349.6	.0717	-	-
30	13.25	32.75	24.62	333.5	.1060	-	-
50	10.29	32.68	25.11	286.6	.1683	-	-
75	8.56	32.71	25.42	258.5	.2368	-	-
100	8.01	32.72	25.50	250.4	.3008	-	-
150	7.40	33.31	26.06	198.8	.414	-	-
200	7.07	33.76	26.45	161.6	.505	-	-
250	6.50	33.86	26.61	147.2	.582	-	-
300	5.90	33.92	26.74	135.7	.654	-	-
400	5.18	33.98	26.87	123.8	.785	-	-
500	4.71	34.06	26.99	113.3	.904	-	-
600	4.35	34.16	27.10	102.8	1.013	-	-
700	4.06	34.23	27.19	94.9	1.113	-	-
800	3.80	34.29	27.26	88.6	1.206	-	-
1000	3.30	34.39	27.39	77.1	1.373	-	-

STATION 308 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}06'N$ $131^{\circ}16'W$ July 7, 1949 0945 GCT Wire angle:
2° Sounding: 2,100 fms. Depth of observation: 900 m. Weather: over-
cast Sea: rough Wind: 220°*, force 1.

0	15.25	32.74	24.20	373.3	.0000	5.14	-
10	14.37	32.74	24.39	355.6	.0366	5.14	-
20	14.00	32.69	24.42	352.2	.0721	5.32	-
30	13.72	32.68	24.48	347.4	.1072	5.73	-
50	10.63	32.75	25.11	287.6	.1711	6.10	-
75	8.52	32.68	25.40	259.9	.2399	5.86	-
100	7.95	32.71	25.51	250.3	.3041	5.40	-
150	7.36	33.28	26.04	207.4	.417	5.00	-
200	7.30	33.84	26.49	158.6	.508	3.74	-
250	6.80	33.92	26.62	146.8	.585	3.26	-
300	6.21	33.93	26.70	139.0	.657	2.89	-
400	5.19	33.95	26.86	126.0	.790	1.83	-
500	4.60	34.02	26.97	115.1	.912	1.02	-
600	4.27	34.13	27.09	104.1	1.023	0.63	-
700	4.00	34.22	27.19	95.1	1.123	0.44	-
800	3.76	34.29	27.27	88.1	1.216	0.36	-
1000	(3.31)	(34.38)	(27.38)	(78.0)	(1.384)	-	-

**See introduction

STATION 309 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}02'N$ $132^{\circ}10'W$ July 7, 1949 0320 GCT Wire angle:
 4° Sounding: 2,000 fms. Depth of observation: 1,196 m. Weather:
partly cloudy Sea: moderate Wind: 200*, 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	14.95	32.72	24.25	368.6	.0000	5.64	-
10	14.80	32.66	24.23	369.9	.0371	6.00	-
20	14.50	32.69	24.32	362.1	.0738	6.03	-
30	13.55	32.72	24.54	341.5	.1091	6.09	-
50	11.65	32.74	24.92	305.5	.1742	6.56	-
75	10.01	32.75	25.22	277.9	.2475	6.30	-
100	8.79	32.78	25.44	257.0	.3148	6.33	-
150	7.53	33.28	26.01	202.9	.431	5.20	-
200	7.02	33.70	26.41	165.4	.623	5.00	-
250	6.78	33.87	26.58	150.3	.603	4.44	-
300	6.48	33.93	26.67	142.3	.676	3.50	-
400	5.57	33.98	26.82	128.5	.813	2.38	-
500	4.92	34.04	26.95	117.4	.937	1.50	-
600	4.41	34.13	27.07	105.8	1.050	0.83	-
700	4.08	34.20	27.17	97.4	1.152	0.50	-
800	3.81	34.27	27.25	90.3	1.247	0.37	-
1000	3.38	(34.38)	(27.38)	(78.7)	(1.418)	0.36	-

STATION 310 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $41^{\circ}57'N$ $133^{\circ}03'W$ July 6, 1949 2055, 1525, 1759 GCT
Wire angles: 4° , 14° , missing Sounding: 1,600 fms. Depths of observation:
1,197, 1,992, 2,935 m. Weather: overcast Sea: rough Wind: 270° ,
force 1-2.

10	15.20	32.88	24.32	362.0	.0000	5.87	-
10	15.14	32.86	24.31	362.7	.0364	5.32	-
20	14.75	32.86	24.40	354.8	.0724	5.60	-
30	14.15	32.86	24.53	342.9	.1074	6.05	-
50	12.78	32.86	24.80	317.0	.1737	6.52	-
75	10.65	32.84	25.18	281.6	.2490	6.00	-
100	9.85	32.84	25.31	269.0	.3182	5.88	-
150	8.17	33.30	25.94	210.3	.439	4.95	-
200	7.66	33.78	26.39	168.1	.534	4.58	-
250	7.17	33.90	26.55	153.2	.615	4.11	-
300	6.65	33.95	26.66	143.1	.690	3.45	-
400	5.50	34.00	26.85	126.2	.825	2.27	-
500	4.73	34.05	26.98	114.3	.947	1.50	-
600	4.28	34.11	27.07	105.7	1.058	0.98	-
700	4.04	34.18	27.15	98.4	1.161	0.64	-
800	3.75	34.26	27.24	90.3	1.256	0.42	-
1000	3.33	34.40	27.40	76.6	1.425	0.32	-
1200	2.87	34.47	27.50	67.7	1.571	0.43	-
1500	2.45	34.56	27.61	58.1	1.762	0.98	-
2000	1.97	34.65	27.72	47.2	2.029	1.57	-
2500	1.68	34.68	27.76	43.9	2.261	2.10	-

**See introduction

STATION 401 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}50'N$ $124^{\circ}50'W$ July 2, 1949 1440 GCT Wire angle:
 35° Sounding: 1,150 fms. Depth of observation: 1,050 m. Weather:
 overcast Sea: very rough Wind: 350° , force 5.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	10.77	33.73	25.85	216.2	.0000	6.50	-
10	10.75	33.64	25.78	222.9	.0220	5.28	-
20	10.70	33.66	25.81	227.7	.0443	5.07	-
30	10.65	33.64	25.80	221.7	.0665	4.91	-
50	10.50	33.48	25.70	231.3	.1120	4.60	-
75	8.75	33.54	26.04	199.9	.1662	4.15	-
100	8.42	33.64	26.17	187.9	.2150	3.42	-
150	8.14	33.75	26.29	176.5	.307	2.94	-
200	7.69	33.85	26.44	163.3	.392	2.75	-
250	7.02	33.95	26.61	147.4	.471	2.42	-
300	6.20	34.05	26.80	139.0	.540	1.32	-
400	5.79	34.15	26.93	118.6	.666	0.70	-
500	5.43	34.18	27.00	113.1	.783	0.52	-
600	5.00	34.24	27.10	104.5	.892	0.38	-
700	4.62	34.32	27.20	94.8	.993	0.33	-
800	4.27	34.37	27.28	87.9	1.085	0.35	-
1000	3.66	34.41	27.37	79.7	1.255	0.50	-

STATION 402 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}41'N$ $125^{\circ}41'W$ July 2, 1949 2315 GCT Wire angle:
 15° Sounding: 1,650 fms. Depth of observation: 869 m. Weather:
 clear Sea: very rough Wind: 350° , force 5.

0	12.40	33.15	25.10	287.8	.0000	6.18	-
10	12.42	33.13	25.08	289.8	.0290	5.77	-
20	12.43	33.13	25.08	290.1	.0581	5.12	-
30	12.35	33.14	25.10	288.1	.0871	4.94	-
50	9.15	33.29	25.78	223.8	.1386	4.75	-
75	8.58	33.61	26.12	192.1	.1909	4.47	-
100	8.50	33.67	26.17	186.9	.2386	3.91	-
150	7.95	33.70	26.28	177.5	.330	3.80	-
200	7.33	33.99	26.60	147.8	.412	2.01	-
250	7.06	33.98	26.63	145.6	.486	1.47	-
300	6.75	34.02	26.70	139.3	.558	1.32	-
400	-	34.13	-	-	-	1.31	-
500	-	34.15	-	-	-	1.04	-
600	-	34.19	-	-	-	0.77	-
700	-	34.27	-	-	-	0.59	-
800	-	34.36	-	-	-	0.49	-

**See Introduction

STATION 404 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}22.5'N$ $127^{\circ}22.5'W$ July 3, 1949 1255 GCT Wire angle: 30° Sounding: 750 fms. Depth of observation: 969 m. Weather: overcast Sea: very rough Wind: 350° , force 5.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	13.96	32.83	24.54	340.6	.0000	7.07	-
10	13.90	32.84	24.56	339.1	.0341	6.51	-
20	13.91	32.90	24.61	335.0	.0680	5.26	-
30	13.85	32.89	24.61	334.7	.1016	5.29	-
50	10.85	33.03	25.29	270.3	.1624	5.41	-
75	9.95	33.40	25.73	228.7	.225	4.12	-
100	9.60	33.47	25.85	218.4	.281	3.53	-
150	9.04	33.62	26.05	199.6	.387	2.70	-
200	8.50	33.77	26.25	181.1	.482	2.57	-
250	7.91	33.94	26.48	160.5	.568	2.44	-
300	7.33	34.09	26.68	141.8	.645	1.68	-
400	6.29	34.08	26.81	130.2	.782	1.54	-
500	5.70	34.14	26.93	119.6	.908	1.22	-
600	5.27	34.24	27.06	107.8	1.022	0.70	-
700	4.85	-	-	-	-	-	-
800	4.46	-	-	-	-	-	-

STATION 405 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}14'N$ $128^{\circ}15.5'W$ July 3, 1949 2055 GCT Wire angle: 3° Sounding: 2,545 fms. Depth of observation: 1,157 m. Weather: overcast Sea: very rough Wind: 350° , force 3.

0	14.35	32.97	24.57	338.1	.0000	-	-
10	14.34	32.95	24.55	339.7	.0340	-	-
20	14.34	32.93	24.54	341.3	.0682	-	-
30	14.35	32.92	24.53	342.5	.1026	-	-
50	14.19	32.94	24.58	338.3	.1710	-	-
75	12.76	32.97	24.84	314.2	.2530	-	-
100	9.07	33.26	25.77	225.9	.3209	-	-
150	8.81	33.52	26.01	203.6	.429	-	-
200	7.94	34.00	26.52	155.6	.519	-	-
250	7.35	34.01	26.61	147.4	.596	-	-
300	6.80	34.04	26.70	139.7	.668	-	-
400	6.16	34.14	26.88	123.9	.801	-	-
500	5.69	34.21	26.99	114.1	.921	-	-
600	5.23	34.27	27.09	105.2	1.032	-	-
700	4.75	34.32	27.19	96.3	1.133	-	-
800	4.30	34.37	27.28	88.2	1.226	-	-
1000	3.55	34.45	27.42	75.5	1.392	-	-

**See Introduction

STATION 406 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}05'N$ $129^{\circ}04'W$ July 4, 1949 0453 GCT Wire angle:
 30° Sounding: 1,700 fms. Depth of observation: 981 m. Weather:
 overcast Sea: missing 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	13.95	32.90	24.60	335.3	.0000	5.68	-
10	14.00	32.82	24.52	342.6	.0340	4.14	-
20	14.07	32.83	24.52	343.2	.0635	4.70	-
30	14.00	32.84	24.54	341.6	.1028	5.41	-
50	13.26	32.84	24.69	327.4	.1701	5.91	-
75	10.00	32.82	25.27	272.6	.2455	4.69	-
100	9.03	32.83	25.44	256.9	.3121	4.40	-
150	7.87	33.42	26.07	197.1	.426	3.55	-
200	7.32	33.82	26.47	160.3	.516	2.95	-
250	6.92	33.95	26.62	146.0	.594	2.77	-
300	6.15	33.98	26.75	134.4	.664	2.27	-
400	5.41	34.08	26.92	119.2	.792	1.34	-
500	5.00	34.17	27.04	108.5	.907	0.71	-
600	4.60	34.25	27.15	99.0	1.011	0.45	-
700	4.22	34.33	27.25	89.3	1.106	0.35	-
800	3.85	34.39	27.34	81.7	1.193	0.36	-
1000	(3.28)	(34.50)	(27.48)	(68.9)	(1.345)	-	-

STATION 407 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}56'N$ $129^{\circ}55'W$ July 4, 1949 1530 GCT Wire angle:
 25° Sounding: 2,250 fms. Depth of observation: 1,049 m. Weather:
 overcast Sea: rough Wind: $340^{\circ}*$, force 2.

0	14.84	32.86	24.38	356.1	.0000	5.18	-
10	14.83	32.88	24.40	354.6	.0357	4.22	-
20	14.72	32.87	24.41	353.5	.0712	4.33	-
30	14.60	32.85	24.42	352.7	.1067	4.48	-
50	13.11	32.83	24.71	325.3	.1748	4.77	-
75	11.43	32.85	25.05	294.1	.2527	4.77	-
100	10.38	32.94	25.30	270.1	.3237	3.25	-
150	8.71	33.25	25.82	222.0	.448	3.50	-
200	7.79	33.78	26.37	169.9	.546	3.25	-
250	7.21	34.02	26.64	144.7	.625	1.88	-
300	6.64	34.01	26.71	138.7	.697	1.71	-
400	5.87	34.02	26.32	129.3	.832	1.25	-
500	5.47	34.11	26.94	118.7	.957	0.81	-
600	5.00	34.19	27.06	108.1	1.071	0.59	-
700	4.58	34.24	27.14	100.2	1.177	0.45	-
800	4.18	34.30	27.23	92.1	1.274	0.36	-
1000	3.45	34.42	27.40	76.5	1.444	0.28	-

**See Introduction

STATION 408 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}48'N$ $130^{\circ}45'W$ July 4, 1949 2246 GCT Wire angle:
 7° Sounding: 2,500 fms. Depth of observation: 858 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	15.10	32.81	24.28	365.2	.0000	6.05	-
10	14.62	32.81	24.39	355.5	.0362	4.20	-
20	14.37	32.78	24.42	352.9	.0717	4.70	-
30	14.27	32.77	24.43	351.9	.1071	4.94	-
50	13.91	32.86	24.58	338.6	.1765	4.70	-
75	11.76	32.81	24.96	302.7	.2571	4.79	-
100	10.50	32.96	25.30	270.6	.3292	4.29	-
150	8.66	33.44	25.97	207.1	.449	3.03	-
200	7.82	33.86	26.43	164.5	.543	3.13	-
250	7.38	33.90	26.52	156.0	.624	2.78	-
300	6.86	33.94	26.63	146.7	.700	2.15	-
400	5.60	34.01	26.84	126.8	.838	1.16	-
500	5.06	34.08	26.96	116.0	.960	0.90	-
600	4.74	34.15	27.05	108.2	1.073	0.67	-
700	4.40	34.23	27.16	98.8	1.178	0.49	-
800	4.10	34.30	27.24	90.8	1.274	0.33	-
1000	(3.52)	(34.41)	(27.39)	(78.1)	(1.444)	-	-

STATION 409 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}38'N$ $131^{\circ}36'W$ July 5, 1949 0645 GCT Wire angle:
 10° Sounding: 2,235 fms. Depth of observation: 1,012 m. Weather:
 overcast Sea: rough Wind: 300° *, force 4.

0	16.00	32.97	24.21	372.4	.0000	5.25	-
10	15.70	32.97	24.28	366.1	.0371	5.49	-
20	15.61	32.97	24.30	364.6	.0738	5.72	-
30	15.53	32.97	24.31	363.1	.1103	5.73	-
50	14.15	32.96	24.60	336.0	.1805	5.66	-
75	11.97	32.88	24.97	301.2	.2606	6.02	-
100	11.00	32.95	25.20	279.6	.3337	5.73	-
150	9.28	33.27	25.74	229.3	.462	4.89	-
200	8.16	33.70	26.25	181.2	.565	4.34	-
250	7.48	33.91	26.52	156.7	.650	4.09	-
300	6.98	33.95	26.62	147.6	.727	3.37	-
400	6.24	34.00	26.75	135.6	.870	1.94	-
500	5.60	34.07	26.89	123.4	1.000	0.99	-
600	5.00	34.15	27.02	111.1	1.119	0.56	-
700	4.47	34.23	27.15	99.6	1.225	0.36	-
800	4.04	34.31	27.26	89.8	1.321	0.32	-
1000	3.50	34.42	27.40	77.2	1.490	0.36	-

**See Introduction

STATION 410 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 39°29'N 132°27'W July 5, 1949 1406 GCT Wire angle:
 0° Sounding: 2,750 fms. Depth of observation: 1,182 m. Weather:
 overcast Sea: moderate Wind: 310°*, force 1.

Depth** (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO4-P (µg at/L)
0	15.99	33.04	24.26	367.1	.0000	5.88	-
10	15.72	33.04	24.33	361.4	.0366	5.44	-
20	15.61	33.01	24.33	361.7	.0729	5.62	-
30	15.37	32.98	24.36	358.9	.1090	5.93	-
50	12.86	32.94	24.85	312.4	.1765	6.12	-
75	11.54	32.90	25.06	292.4	.2525	5.82	-
100	11.34	32.97	25.16	284.1	.3250	5.46	-
150	9.57	33.26	25.69	234.5	.456	5.08	-
200	8.35	33.67	26.20	186.2	.561	4.86	-
250	7.75	33.88	26.45	162.8	.649	4.31	-
300	7.15	33.93	26.58	151.2	.728	3.79	-
400	6.05	33.96	26.75	136.0	.873	2.82	-
500	5.17	34.01	26.89	122.4	1.003	1.78	-
600	4.65	34.10	27.02	110.7	1.121	0.91	-
700	4.37	34.18	27.12	102.2	1.229	0.51	-
800	4.10	34.25	27.20	94.8	1.328	0.37	-
1000	3.57	34.37	27.35	81.7	1.507	0.36	-

STATION 501 (Interpolated Values at Standard Depths)

HORIZON: 38°50'N 124°05'W July 3, 1949 0230 GCT Wire angle: 48°
 Sounding: missing Depth of observation: 930 m. Weather: overcast
 Sea: high Wind: 320°, force 4.

0	10.78	33.24	25.47	252.7	.0000	5.71	1.06
10	10.70	33.27	25.50	249.3	.0252	5.97	1.24
20	10.58	33.33	25.57	243.1	.0499	5.90	1.14
30	10.42	33.33	25.60	240.7	.0742	5.70	1.08
50	9.52	33.33	25.75	226.6	.1212	4.89	1.28
75	8.78	33.53	26.02	200.9	.1749	3.30	1.73
100	8.61	33.78	26.25	180.3	.2229	2.17	1.95
150	8.22	34.00	26.48	159.2	.308	1.73	2.20
200	7.85	34.03	26.56	152.2	.387	1.54	2.32
250	7.48	34.04	26.62	147.1	.462	1.52	2.22
300	7.17	34.04	26.66	143.5	.535	1.59	2.09
400	6.53	34.08	26.78	133.4	.675	1.63	1.96
500	5.89	34.16	26.93	120.2	.803	1.08	2.35
600	5.34	34.23	27.05	109.5	.919	0.45	2.77
700	4.93	34.28	27.13	101.6	1.025	0.35	2.73
800	4.62	34.32	27.20	95.9	1.125	0.30	2.65
1000	3.91	34.41	27.35	82.8	1.306	-	-

**See introduction

STATION 505 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ}06'N$ $127^{\circ}20'W$ July 3, 1949 1955 GCT Wire angle: 38°
 Sounding: missing Depth of observation: 1,414 m. Weather: partly
 cloudy Sea: high Wind: 310° , force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P O ₂ -P (Mg at/L)
0	13.70	32.95	24.69	326.7	.0000	6.00	0.62
10	13.70	32.89	24.64	331.3	.0330	5.96	0.47
20	13.68	32.94	24.68	327.4	.0661	5.90	0.50
30	13.58	32.94	24.70	325.9	.0989	5.94	0.55
50	10.90	33.15	25.38	262.3	.1580	5.88	0.73
75	9.38	33.37	25.80	222.0	.2189	4.68	1.14
100	8.69	33.40	25.94	209.5	.2732	3.65	1.48
150	8.11	33.70	26.26	179.9	.371	2.50	1.79
200	7.46	33.95	26.55	152.6	.455	2.00	2.01
250	6.86	33.98	26.66	143.2	.529	1.70	2.18
300	6.36	33.98	26.72	137.2	.600	1.47	2.34
400	5.64	33.98	26.81	129.5	.734	1.04	2.57
500	5.10	34.07	26.95	117.2	.859	0.45	2.64
600	4.66	34.16	27.07	106.3	.972	0.38	2.68
700	4.34	34.22	27.15	99.1	1.075	0.38	2.69
800	4.03	34.27	27.23	92.6	1.172	0.42	2.70
1000	3.50	34.36	27.35	81.6	1.348	0.60	2.74

STATION 506 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}55'N$ $128^{\circ}10'W$ July 4, 1949 0145 GCT Wire angle: 40°
 Sounding: missing Depth of observation: 951 m. Weather: overcast
 Sea: very rough Wind: 300° , force 3.

0	14.42	32.86	24.47	347.5	.0000	5.60	0.49
10	14.45	32.86	24.46	348.5	.0349	5.75	0.50
20	14.45	32.84	24.45	350.2	.0700	5.60	0.53
30	14.39	32.81	24.44	351.3	.1052	5.58	0.54
50	12.00	32.78	24.89	308.8	.1716	6.07	0.53
75	10.50	32.83	25.19	280.0	.2456	6.18	0.54
100	9.53	32.86	25.38	262.5	.3138	5.47	0.81
150	8.44	33.41	25.98	206.3	.432	4.33	1.51
200	7.82	33.82	26.40	167.5	.526	3.00	1.83
250	7.19	33.90	26.55	153.4	.607	2.58	1.93
300	6.60	33.92	26.65	144.7	.682	2.48	2.06
400	5.68	33.93	26.77	133.6	.822	2.40	2.34
500	5.18	34.00	26.88	123.3	.952	1.43	2.56
600	4.83	34.14	27.04	109.8	1.069	0.53	2.69
700	4.48	34.25	27.16	98.4	1.174	0.40	2.73
800	4.13	34.33	27.26	89.3	1.269	0.37	2.74
1000	(3.51)	(34.43)	(27.40)	(76.6)	(1.437)	-	-

STATION 507 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}43'N$ $128^{\circ}58'W$ July 4, 1949 0800 GCT Wire angle: 41°
 Sounding: missing Depth of observation: 1,074 m. Weather: drizzle
 Sea: rough Wind: 340° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	10^{56}	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	15.80	33.01	24.29	365.0	.0000	6.20	0.45
10	15.81	33.01	24.28	365.5	.0367	5.70	0.50
20	15.80	33.01	24.29	365.5	.0734	5.75	0.46
30	15.78	33.01	24.29	365.4	.1101	5.90	0.44
50	14.05	32.97	24.63	333.4	.1803	6.06	0.44
75	12.03	33.00	25.05	293.7	.2592	5.47	0.44
100	11.79	33.03	25.12	287.5	.3323	5.38	0.47
150	9.25	33.22	25.71	232.5	.463	4.77	1.18
200	8.29	33.74	26.26	180.0	.567	4.21	1.78
250	7.48	33.88	26.49	158.9	.652	3.27	1.91
300	6.76	33.93	26.63	146.2	.729	2.50	1.91
400	5.67	33.94	26.78	132.9	.870	1.85	1.96
500	5.05	33.96	26.87	124.7	1.000	1.14	2.18
600	4.62	34.07	27.00	112.7	1.120	0.62	2.52
700	4.28	34.21	27.15	99.1	1.227	0.42	2.72
800	4.02	34.28	27.23	91.8	1.323	0.50	2.79
1000	3.60	34.39	27.36	80.6	1.497	0.72	2.80

STATION 508 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}32'N$ $129^{\circ}47'W$ July 4, 1949 1403 GCT Wire angle: 24°
 Sounding: missing Depth of observation: 1,197 m. Weather: rain
 showers Sea: moderate Wind: 340° , force 3.

0	16.06	33.07	24.27	366.4	.0000	5.58	0.46
10	16.04	33.08	24.28	365.5	.0367	5.74	0.45
20	16.06	33.09	24.29	365.5	.0734	6.01	0.44
30	16.06	33.12	24.31	363.7	.1100	6.04	0.41
50	15.63	33.15	24.43	352.5	.1820	5.79	0.37
75	12.27	33.18	25.15	284.9	.2621	6.16	0.47
100	12.15	33.13	25.13	286.9	.3341	5.84	0.41
150	9.07	33.04	25.60	242.8	.467	4.95	1.13
200	8.24	33.78	26.30	176.4	.573	3.48	1.63
250	7.57	33.94	26.53	155.8	.657	2.48	1.86
300	6.88	33.95	26.63	146.3	.733	2.43	1.94
400	5.64	33.95	26.79	131.6	.873	2.26	2.00
500	4.89	33.99	26.91	120.6	1.000	1.63	2.06
600	4.56	34.07	27.01	111.9	1.117	0.95	2.29
700	4.31	34.19	27.13	101.0	1.225	0.49	2.55
800	4.05	34.30	27.25	90.7	1.322	0.33	2.73
1000	3.56	34.41	27.38	78.6	1.492	0.41	2.77

STATION 509 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}21'N$ $130^{\circ}36'W$ July 4, 1949 2030 GCT Wire angle: 33°
 Sounding: missing Depth of observation: 958 m. Weather: partly
 cloudy Sea: rough Wind: 310° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^{5\delta}$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	16.22	33.17	24.31	362.4	.0000	5.18	0.53
10	16.22	33.17	24.31	362.7	.0364	5.12	0.47
20	16.20	33.15	24.30	364.0	.0729	5.59	0.44
30	16.20	33.18	24.32	362.1	.1093	5.59	0.42
50	15.50	33.19	24.49	346.9	.1806	5.40	0.39
75	12.05	33.02	25.06	292.6	.2610	4.37	0.44
100	11.28	32.99	25.18	281.5	.3332	4.44	0.50
150	10.37	33.20	25.51	251.7	.467	4.63	0.81
200	9.05	33.61	26.04	201.3	.581	4.27	1.24
250	7.44	33.91	26.52	156.2	.671	3.53	1.65
300	6.71	33.96	26.66	143.3	.747	2.32	2.11
400	5.83	34.00	26.81	130.3	.885	1.53	2.36
500	5.25	33.99	26.87	125.0	1.013	1.41	2.34
600	4.81	33.97	26.90	122.4	1.138	1.34	2.32
700	4.42	34.15	27.09	105.1	1.253	1.18	2.40
800	4.07	34.29	27.24	91.7	1.352	0.97	2.51
1000	(3.49)	(34.41)	(27.39)	(77.7)	(1.524)	-	-

STATION 510 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}10'N$ $131^{\circ}25'W$ July 5, 1949 0227 GCT Wire angle: 26°
 Sounding: missing Depth of observation: 1,223 m. Weather: partly
 cloudy Sea: rough Wind: 350° , force 2-3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^{5\delta}$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	16.33	32.97	24.14	379.3	.0000	5.62	0.51
10	16.34	32.96	24.12	380.7	.0382	5.94	0.48
20	16.18	32.94	24.15	378.8	.0768	5.84	0.48
30	15.97	32.92	24.18	376.2	.1147	5.84	0.46
50	14.45	32.89	24.49	347.3	.1874	6.50	0.42
75	11.07	32.85	25.11	288.0	.2672	6.23	0.52
100	10.10	32.86	25.29	271.7	.3377	5.77	0.70
150	9.10	33.55	25.99	205.6	.458	5.13	1.07
200	8.35	33.76	26.27	179.5	.555	4.65	1.36
250	7.64	33.89	26.48	160.5	.640	4.12	1.58
300	6.94	33.93	26.61	148.5	.718	3.37	1.83
400	5.76	33.96	26.78	132.4	.864	2.12	2.18
500	5.10	33.98	26.88	123.8	.993	1.82	2.19
600	4.69	34.05	26.98	114.8	1.114	1.25	2.35
700	4.35	34.19	27.13	101.3	1.223	0.55	2.58
800	4.02	34.30	27.25	90.3	1.320	0.33	2.77
1000	3.41	34.41	27.40	76.8	1.484	0.38	2.82

STATION 605 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}24'N$ $126^{\circ}07'W$ July 7, 1949 0026 GCT Wire angle: 41°
 Sounding: missing Depth of observation: 1,401 m. Weather: partly
 cloudy 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 (mg at/L)
0	15.58	33.12	24.42	352.5	.0000	4.79	0.46
10	15.57	33.13	24.43	351.8	.0354	4.54	0.52
20	15.52	33.10	24.42	353.1	.0708	4.75	0.56
30	15.47	33.10	24.43	352.4	.1062	5.57	0.50
50	14.15	32.97	24.61	335.3	.1753	5.80	0.48
75	11.60	32.96	25.10	289.1	.2538	5.35	0.65
100	10.93	33.30	25.49	253.0	.3220	4.71	0.87
150	9.38	33.75	26.10	195.3	.435	3.64	1.35
200	8.30	33.90	26.39	168.4	.526	2.83	1.79
250	7.60	33.98	26.55	153.4	.607	2.32	2.08
300	6.97	34.00	26.66	143.9	.682	2.04	2.27
400	5.97	34.06	26.84	127.6	.819	1.24	2.53
500	5.39	34.16	26.99	114.0	.941	0.68	2.73
600	5.02	34.17	27.04	109.9	1.054	0.70	2.71
700	4.68	34.16	27.07	107.3	1.163	0.83	2.63
800	4.32	34.19	27.13	102.0	1.269	0.84	2.61
1000	3.74	34.37	27.33	83.7	1.457	0.74	2.76

STATION 606 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}11'N$ $127^{\circ}04'W$ July 6, 1949 1823 GCT Wire angle: 18°
 Sounding: missing Depth of observation: 1,280 m. Weather: overcast
 Sea: moderate Wind: 350° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	15.33	32.97	24.36	358.2	.0000	5.75	0.55
10	15.28	32.99	24.38	355.9	.0358	5.31	0.62
20	15.28	33.03	24.42	353.1	.0714	5.48	0.56
30	15.22	33.02	24.42	352.9	.1069	5.68	0.52
50	13.80	32.92	24.64	332.1	.1757	5.79	0.49
75	10.61	32.77	25.13	286.2	.2534	6.07	0.63
100	9.46	32.92	25.44	256.9	.3218	5.50	0.99
150	8.71	33.54	26.04	200.6	.437	3.80	1.53
200	7.92	33.86	26.41	165.9	.529	2.70	1.79
250	7.29	33.93	26.56	152.5	.609	2.20	2.01
300	6.74	33.97	26.67	142.8	.684	1.95	2.16
400	5.82	34.03	26.83	127.9	.820	1.50	2.31
500	5.12	34.07	26.95	117.5	.944	0.85	2.40
600	4.67	34.14	27.05	107.9	1.058	0.46	2.47
700	4.38	34.23	27.16	98.7	1.162	0.34	2.52
800	4.14	34.34	27.27	88.7	1.257	0.28	2.55
1000	3.65	34.47	27.42	75.4	1.423	0.34	2.60

STATION 607 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}58'N$ $127^{\circ}51'W$ July 6, 1949 1231 GCT Wire angle: 42°
 Sounding: missing Depth of observation: 1,071 m. Weather: overcast
 Sea: moderate Wind: 340° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	14.77	32.88	24.41	353.2	.0000	6.15	0.63
10	14.77	32.88	24.41	353.5	.0355	5.75	0.58
20	14.76	32.88	24.41	353.5	.0710	5.67	0.55
30	14.75	32.88	24.41	353.6	.1065	5.75	0.54
50	14.15	32.82	24.49	346.4	.1768	6.21	0.54
75	10.20	32.75	25.18	280.9	.2557	5.55	0.67
100	9.53	32.81	25.34	266.2	.3245	5.40	0.91
150	8.58	33.46	26.00	204.4	.443	4.92	1.51
200	7.94	33.85	26.40	166.9	.536	4.73	1.86
250	7.38	33.93	26.55	153.7	.617	4.05	2.10
300	6.67	33.95	26.66	143.4	.692	2.48	2.26
400	6.03	34.00	26.78	132.7	.831	1.83	2.49
500	5.40	34.05	26.90	122.3	.960	1.25	2.64
600	4.85	34.11	27.01	112.4	1.078	0.83	2.77
700	4.36	34.17	27.11	103.0	1.187	0.63	2.85
800	4.03	34.24	27.20	94.8	1.287	0.68	2.89
1000	3.53	34.39	27.37	79.7	1.463	0.87	2.94

STATION 608 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}44'N$ $128^{\circ}37'W$ July 6, 1949 0607 GCT Wire angle 23°
 Sounding: missing Depth of observation: 1,193 m. Weather: cloudy
 Sea: rough Wind: 340° , force missing.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	15.40	32.97	24.34	359.6	.0000	5.55	0.49
10	15.29	32.94	24.34	359.7	.0361	5.45	0.59
20	15.05	32.94	24.40	355.1	.0720	5.75	0.54
30	14.67	32.94	24.48	347.5	.1073	5.77	0.52
50	13.65	32.93	24.68	328.5	.1752	5.57	0.50
75	10.61	32.82	25.17	282.5	.2520	5.45	0.57
100	9.85	32.79	25.27	272.7	.3218	5.32	0.79
150	8.67	33.44	25.94	210.3	.443	4.94	1.47
200	8.07	33.76	26.31	175.5	.534	5.18	1.68
250	7.49	33.90	26.51	157.5	.617	5.03	1.83
300	6.88	33.99	26.66	143.3	.693	4.76	2.08
400	5.98	34.10	26.87	124.8	.828	2.50	2.33
500	5.32	34.19	27.02	111.0	.947	1.70	2.46
600	4.80	34.26	27.14	100.7	1.054	1.20	2.55
700	4.39	34.32	27.23	92.1	1.151	0.89	2.62
800	4.07	34.36	27.29	86.5	1.241	0.67	2.66
1000	3.55	34.44	27.41	76.2	1.406	0.43	2.67

STATION 609 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}31'N$ $129^{\circ}24'W$ July 6, 1949 0022 GCT Wire angle: 36°
 Sounding: missing Depth of observation: 1,082 m. Weather: rain
 showers Sea: moderate Wind: 340° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	σ_2 (ml/L)	PO ₄ -P (mg at/L)
0	15.95	32.99	24.23	369.8	.0000	5.32	0.50
10	15.94	32.98	24.23	370.8	.0372	5.64	0.47
20	15.83	32.95	24.23	370.5	.0744	5.34	0.47
30	15.08	32.87	24.33	361.2	.1111	5.35	0.48
50	13.15	32.97	24.81	315.8	.1792	5.27	0.46
75	13.16	33.36	25.13	286.6	.2549	4.94	0.47
100	12.84	33.34	25.16	283.9	.3266	5.00	0.52
150	9.93	33.31	25.67	236.5	.458	4.94	0.99
200	8.58	33.76	26.24	182.8	.563	4.40	1.40
250	7.62	33.89	26.45	163.2	.650	3.73	1.62
300	7.10	33.95	26.60	149.2	.729	3.18	1.79
400	5.72	34.05	26.86	125.4	.867	2.65	2.07
500	5.15	34.13	26.99	113.3	.988	2.11	2.30
600	4.80	34.20	27.09	105.1	1.098	1.18	2.52
700	4.45	34.27	27.18	96.5	1.200	0.73	2.70
800	4.12	34.33	27.26	89.3	1.294	0.73	-
1000	3.55	34.43	27.40	77.0	1.462	0.84	-

STATION 610 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}18'N$ $130^{\circ}11'W$ July 5, 1949 1744, 1435 GCT Wire
 angles: 32° , 32° Sounding: missing Depths of observation: 894,
 2815 m. Weather: partly cloudy Sea: rough Wind: 320° , force 3.

0	16.48	33.23	24.30	363.8	.0000	4.90	0.46
10	16.48	33.26	24.32	361.9	.0364	4.80	0.40
20	16.45	32.91	24.06	386.9	.0740	5.19	0.40
30	16.46	33.29	24.35	360.0	.1115	5.20	0.38
50	16.46	33.40	24.43	352.4	.1831	4.96	0.34
75	13.55	33.37	25.04	294.9	.2645	5.20	0.34
100	13.19	33.39	25.13	287.1	.3377	5.15	0.46
150	11.52	33.49	25.53	250.2	.473	4.80	0.63
200	9.24	33.80	26.16	190.1	.584	4.02	1.18
250	8.36	33.79	26.29	178.3	.677	3.90	1.32
300	7.75	33.70	26.31	177.1	.766	3.98	1.27
400	6.73	33.70	26.45	164.3	.938	3.91	1.47
500	5.86	34.06	26.85	127.4	1.085	1.43	2.16
600	5.10	34.20	27.05	108.6	1.204	0.45	2.64
700	4.60	34.27	27.16	98.3	1.309	0.35	2.68
800	4.31	34.32	27.23	92.5	1.405	0.30	2.69
1000	3.84	34.40	27.35	82.6	1.582	0.27	2.86
1200	3.39	34.45	27.43	75.1	1.742	0.47	2.89
1500	2.78	34.47	27.51	68.4	1.960	0.99	2.74
2000	2.10	34.57	27.64	55.5	2.274	1.31	2.44
2500	1.79	34.62	27.71	49.7	2.542	2.13	2.44
3000	1.62	34.63	27.73	48.3	2.792	-	-

STATION 701 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}41'N$ $121^{\circ}50'W$ July 9, 1949 1255 GCT Wire angle: 55°
 Sounding: missing Depth of observation: 547 m. Weather: overcast
 Sea: high Wind: 320° , force 4.

Depth (m)	T ($^{\circ}$ C)	S (σ/oo)	σ_t (mg/cm 3)	$\sigma_t \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (μ g at/L)
0	14.20	33.26	24.62	313.8	.0000	4.90	0.50
10	14.21	33.28	24.64	312.8	.0315	4.95	0.46
20	14.15	33.12	24.73	323.6	.0634	5.73	0.50
30	11.65	33.08	25.19	260.0	.0937	5.30	0.67
50	10.54	33.30	25.55	245.1	.1465	5.00	1.03
75	9.48	33.45	25.85	217.7	.2046	4.50	1.27
100	8.92	33.53	26.00	203.6	.2576	3.49	1.59
150	8.21	33.79	26.31	174.5	.353	2.50	1.84
200	7.71	34.05	26.59	146.9	.434	2.15	1.95
250	7.30	34.06	26.66	143.2	.508	2.04	2.02
300	6.94	34.04	26.69	140.6	.579	1.88	2.12
400	6.25	34.09	26.82	129.0	.715	1.24	2.42
500	5.68	34.20	26.98	114.5	.838	0.76	2.73
600	(5.18)	(34.27)	(27.10)	(104.7)	(.949)	-	-
700	(4.77)	(34.32)	(27.19)	(96.6)	(1.050)	-	-
800	(4.40)	(34.36)	(27.26)	(90.5)	(1.145)	-	-
1000	(3.91)	(34.42)	(27.35)	(82.2)	(1.319)	-	-

STATION 702 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}25'N$ $122^{\circ}35'W$ July 9, 1949 1848 GCT Wire angle: 47°
 Sounding: missing Depth of observation: 1,046 m. Weather: fog at a
 distance Sea: high Wind: 320° , force 3-4.

0	14.35	33.17	24.73	323.3	.0000	5.08	0.55
10	14.36	33.22	24.76	320.1	.0323	4.88	0.46
20	14.34	33.17	24.72	323.7	.0646	5.00	0.44
30	14.25	33.21	24.77	319.2	.0969	5.35	0.45
50	13.82	33.19	24.85	312.7	.1604	5.16	0.53
75	10.60	33.22	25.48	252.7	.2315	4.80	1.34
100	9.53	33.27	25.70	232.2	.2925	4.23	1.57
150	8.54	33.67	26.17	188.3	.398	3.13	1.80
200	8.11	33.94	26.44	163.0	.487	2.54	1.92
250	7.57	34.01	26.58	150.6	.566	2.20	2.07
300	6.95	34.05	26.70	139.8	.639	2.11	2.10
400	6.22	34.07	26.81	130.4	.775	1.19	2.54
500	5.66	34.05	26.87	125.4	.904	1.35	2.48
600	5.16	34.06	26.93	119.6	1.028	1.34	2.48
700	4.73	34.20	27.10	105.1	1.141	0.95	2.62
800	4.40	34.34	27.23	91.8	1.241	0.54	2.78
1000	3.87	34.42	27.36	81.5	1.416	0.70	2.81

STATION 801 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}19'N$ $120^{\circ}45'W$ July 13, 1949 2248 GCT Wire angle: 14°
 Sounding: missing Depth of observation: 1,283 m. Weather: cloudy
 Sea: rough Wind: 320° , force 2.

Depth (m)	T (°C)	S (‰)	σ _t (mg/cm ³)	10 ⁵ ε	ΔD (dyn.m.)	O ₂ (ml/L)	PO ₄ -P (μg at/L)
0	16.19	33.44	24.53	342.1	.0000	3.64	0.46
10	16.15	33.38	24.49	346.0	.0345	3.73	0.42
20	15.76	33.33	24.54	341.4	.0690	3.70	0.45
30	15.15	33.29	24.64	331.8	.1028	3.70	0.49
50	13.35	33.24	24.98	300.0	.1663	4.00	0.58
75	11.27	33.44	25.53	247.8	.2352	4.35	1.22
100	10.18	33.50	25.77	225.5	.2947	3.30	1.48
150	8.62	33.83	26.28	178.0	.396	2.30	1.92
200	8.02	33.96	26.48	160.1	.481	1.88	1.96
250	7.41	33.98	26.58	150.7	.560	1.80	2.12
300	6.83	33.99	26.67	142.5	.634	1.64	2.34
400	6.03	34.07	26.83	127.8	.770	0.99	2.66
500	5.69	34.21	26.98	113.8	.892	0.51	2.81
600	5.33	34.28	27.09	105.9	1.002	0.29	2.87
700	4.90	34.33	27.18	97.5	1.105	0.26	2.92
800	4.51	34.38	27.26	90.3	1.200	0.33	2.93
1000	3.82	34.45	27.39	78.8	1.371	0.59	2.90

STATION 802 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}09'N$ $121^{\circ}20'W$ July 13, 1949 1450 GCT Wire angle: 16°
 Sounding: missing Depth of observation: 1,183 m. Weather: overcast
 Sea: moderate Wind: 320° , force 1.

0	15.89	33.55	24.68	327.6	.0000	4.43	0.49
10	15.90	33.55	24.68	328.1	.0329	4.60	0.43
20	15.82	33.47	24.63	332.4	.0661	4.60	0.44
30	15.27	33.46	24.75	321.7	.0989	4.57	0.48
50	12.28	33.56	25.44	256.4	.1570	4.18	1.21
75	9.97	33.69	25.96	207.6	.2153	3.25	1.80
100	9.12	33.86	26.23	184.1	.2646	2.40	1.92
150	8.20	33.94	26.43	163.3	.352	2.37	1.88
200	7.64	34.02	26.58	150.0	.433	1.44	2.12
250	7.14	34.07	26.69	140.3	.504	1.35	2.26
300	6.73	34.12	26.78	131.5	.572	1.19	2.32
400	6.13	34.33	27.03	109.8	.694	0.67	2.39
500	5.59	34.28	27.06	107.5	.804	0.78	2.44
600	5.16	34.22	27.06	108.1	.913	0.93	2.51
700	4.77	34.27	27.15	100.3	1.018	0.84	2.57
800	4.43	34.38	27.27	89.3	1.114	0.64	2.63
1000	3.81	34.48	27.41	76.5	1.281	0.58	2.72

STATION 803 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}15'N$ $122^{\circ}05'W$ July 13, 1949 0823 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,282 m. Weather: cloudy
 Sea: rough Wind: 180° , 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 (Mg at/L)
0	15.45	33.22	24.52	342.3	.0000	4.23	0.52
10	15.45	33.21	24.52	343.3	.0344	4.13	0.48
20	15.24	33.26	24.60	335.6	.0685	4.60	0.44
30	14.91	33.34	24.73	323.3	.1016	4.68	0.43
50	13.80	33.40	25.01	296.8	.1639	4.50	0.71
75	12.45	33.27	25.18	281.5	.2366	4.43	0.83
100	10.17	33.23	25.56	245.3	.3029	4.44	1.04
150	9.02	33.72	26.13	192.0	.413	3.97	1.63
200	8.29	33.93	26.41	166.2	.503	3.02	1.90
250	7.68	33.98	26.49	154.2	.584	2.13	2.16
300	7.02	34.01	26.66	143.7	.659	1.70	2.33
400	5.83	34.16	26.93	118.5	.791	1.37	2.47
500	5.64	34.17	26.96	116.3	.909	1.00	2.50
600	5.30	34.19	27.02	112.2	1.025	0.73	2.52
700	4.87	34.24	27.11	103.6	1.134	0.54	2.55
800	4.46	34.32	27.22	94.4	1.234	0.43	2.58
1000	3.76	34.45	27.39	78.0	1.408	0.55	2.64

STATION 804 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}05'N$ $122^{\circ}04'W$ July 13, 1949 0236 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,256 m. Weather: overcast
 Sea: rough Wind: 140° , force 2.

0	15.50	33.31	24.58	336.7	.0000	3.32	0.57
10	15.49	33.24	24.53	341.9	.0341	3.59	0.44
20	15.38	33.25	24.56	339.4	.0683	3.57	0.45
30	14.49	33.25	24.75	321.3	.1014	3.60	0.49
50	12.40	33.21	25.14	284.5	.1623	3.85	0.56
75	11.10	33.20	25.38	262.6	.2311	3.61	0.75
100	9.73	33.48	25.83	219.8	.2918	3.93	1.30
150	8.82	33.81	26.24	182.0	.393	2.80	1.79
200	8.43	34.06	26.49	158.6	.479	1.67	1.99
250	7.78	34.14	26.65	143.7	.555	1.53	2.13
300	6.90	34.16	26.79	130.8	.624	1.43	2.26
400	5.68	34.14	26.93	118.0	.749	1.20	2.48
500	5.20	34.16	27.01	111.6	.865	0.97	2.56
600	4.85	(34.21)	(27.09)	(105.0)	(.974)	0.76	2.61
700	4.54	(34.29)	(27.19)	(96.1)	(1.076)	0.59	2.65
800	4.24	(34.36)	(27.27)	(88.4)	(1.169)	0.47	2.68
1000	3.70	(34.47)	(27.42)	(76.0)	(1.335)	0.50	2.77

STATION 805 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}40'N$ $123^{\circ}30'W$ July 12, 1949 2055 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,082 m. Weather: cloudy
 Sea: moderate Wind: 180° , force 1-2.

Depth (m)	T ($^{\circ}$ C)	S (‰)	σ_t (mg/cm 3)	$10^5 \zeta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (Mg at/L)
0	15.29	33.21	24.55	339.8	.0000	3.47	0.50
10	15.27	33.15	24.51	344.1	.0343	3.84	0.45
20	15.22	33.15	24.52	343.2	.0688	3.56	0.45
30	15.08	33.19	24.58	337.7	.1030	3.56	0.40
50	13.92	33.39	24.98	300.2	.1671	4.35	0.35
75	13.62	33.43	25.07	291.8	.2415	4.60	0.45
100	10.63	33.34	25.57	244.6	.3090	4.56	0.83
150	9.20	33.70	26.79	196.1	.420	2.90	1.80
200	8.37	33.96	26.42	165.1	.511	1.90	2.03
250	7.68	34.01	26.56	152.0	.591	1.62	2.13
300	7.00	34.03	26.68	142.0	.665	1.38	2.18
400	6.07	34.08	26.84	127.6	.801	1.00	2.30
500	5.52	34.14	26.95	117.4	.924	0.70	2.51
600	5.05	34.23	27.08	106.0	1.037	0.51	2.63
700	4.69	34.31	27.19	96.4	1.139	0.43	2.66
800	4.36	34.39	27.28	87.6	1.232	0.43	2.67
1000	3.83	34.46	27.39	78.3	1.400	0.55	2.65

STATION 806 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}22'N$ $124^{\circ}01'W$ July 12, 1949 1456 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,293 m. Weather: overcast
 Sea: high Wind: 360° , force 2.

0	15.79	33.22	24.45	349.5	.0000	3.08	0.47
10	15.80	33.17	24.41	353.8	.0353	3.06	0.42
20	15.81	33.17	24.40	354.2	.0708	3.40	0.43
30	15.81	33.17	24.40	354.5	.1064	3.54	0.47
50	15.76	33.20	24.44	351.6	.1774	3.64	0.50
75	14.56	33.63	25.03	296.0	.2588	3.65	0.35
100	14.44	33.70	25.11	289.0	.3324	3.61	0.33
150	10.56	33.53	25.73	230.7	.463	3.15	1.14
200	8.52	33.85	26.31	175.6	.565	2.59	1.84
250	7.84	34.01	26.54	154.4	.649	2.03	2.14
300	7.37	34.09	26.67	142.6	.723	1.57	2.30
400	6.65	34.18	26.84	127.7	.860	0.93	2.49
500	6.06	34.26	26.98	115.3	.982	0.54	2.61
600	5.57	34.32	27.09	105.9	1.094	0.34	2.66
700	5.13	34.37	27.18	97.7	1.196	0.35	2.68
800	4.73	34.40	27.25	91.5	1.292	0.44	2.66
1000	4.02	34.49	27.40	78.3	1.464	-	-

STATION 807 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}05'N$ $124^{\circ}55'W$ July 12, 1949 0840 GCT Wire angle: 24°
 Sounding: missing Depth of observation: 1,499 m. Weather: overcast
 Sea: rough Wind: 350° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (Mg at/L)
0	16.57	33.35	24.37	357.0	.0000	5.40	0.63
10	16.59	33.31	24.33	360.6	.0360	5.80	0.61
20	16.61	33.30	24.32	361.9	.0723	4.88	0.60
30	16.62	33.30	24.32	362.4	.1086	4.95	0.58
50	15.74	33.28	24.50	345.5	.1708	5.33	0.56
75	13.49	33.19	24.92	306.7	.2618	5.65	0.63
100	12.81	33.21	25.06	292.9	.3372	5.49	0.69
150	10.00	33.58	25.86	217.8	.466	5.23	1.00
200	8.77	33.88	26.30	177.0	.565	5.10	1.76
250	8.22	33.99	26.47	161.4	.650	4.95	2.22
300	7.76	34.06	26.59	150.3	.729	4.75	2.51
400	6.98	34.18	26.80	132.0	.871	4.32	2.78
500	6.29	34.23	26.93	120.3	.998	3.63	2.97
600	5.66	34.25	27.03	112.0	1.116	3.09	3.09
700	5.15	34.31	27.13	102.4	1.224	2.75	3.12
800	4.74	34.36	27.22	94.5	1.323	2.50	3.10
1000	4.14	34.42	27.33	84.7	1.504	2.02	3.03

STATION 808 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}47'N$ $125^{\circ}38'W$ July 12, 1949 0140 GCT Wire angle: 53°
 Sounding: missing Depth of observation: 1,203 m. Weather: overcast
 Sea: very high Wind: 360° , force 4-5.

0	16.63	33.30	24.32	361.9	.0000	4.80	0.48
10	16.62	33.31	24.33	361.2	.0363	4.85	0.42
20	16.63	33.31	24.33	361.6	.0726	4.88	0.46
30	16.63	33.40	24.39	355.4	.1086	4.93	0.56
50	15.10	33.26	24.63	333.5	.1778	5.19	0.47
75	14.31	33.57	25.04	295.2	.2568	5.08	0.31
100	13.43	33.57	25.22	278.3	.3290	4.75	0.32
150	10.00	33.56	25.85	219.0	.454	3.50	1.39
200	8.82	33.65	26.11	195.0	.558	3.25	1.84
250	8.28	34.04	26.50	158.6	.647	3.20	2.05
300	7.98	34.05	26.55	154.4	.726	2.55	2.18
400	7.57	34.06	26.62	149.3	.879	1.23	2.45
500	6.82	34.11	26.76	136.4	1.023	0.65	2.74
600	5.57	34.25	27.03	110.9	1.148	0.40	2.92
700	5.23	34.36	27.16	99.5	1.254	0.42	2.90
800	4.90	34.41	27.24	92.8	1.351	0.46	2.82
1000	(4.22)	(34.45)	(27.35)	(83.3)	(1.530)	0.70	2.70

STATION 809 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}29'N$ $126^{\circ}20'W$ July 11, 1949 1754 GCT Wire angle: 40°
 Sounding: missing Depth of observation: 909 m. Weather: cloudy
 Sea: high Wind: 340° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \gamma$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	16.73	33.28	24.28	365.6	.0000	4.92	0.49
10	16.73	33.22	24.23	370.2	.0369	5.17	0.48
20	16.72	33.22	24.24	370.2	.0741	5.25	0.47
30	16.70	33.22	24.24	370.1	.1113	5.35	0.45
50	15.50	33.58	24.79	318.3	.1804	5.35	0.46
75	14.27	33.46	24.96	302.5	.2585	5.73	0.39
100	13.74	33.55	25.14	286.2	.3325	5.66	0.36
150	9.75	33.57	25.90	214.4	.459	4.37	1.29
200	8.96	33.72	26.14	192.0	.561	3.67	1.65
250	8.37	33.97	26.44	165.3	.651	2.70	1.99
300	7.76	34.01	26.55	154.0	.731	1.20	2.24
400	6.56	34.03	26.74	137.6	.878	1.63	2.51
500	5.39	34.06	26.91	121.5	1.009	1.25	2.61
600	4.75	34.12	27.03	110.5	1.126	1.01	2.70
700	4.42	34.21	27.14	100.5	1.232	0.84	2.76
800	4.17	34.30	27.24	91.9	1.330	0.68	2.82
1000	(3.77)	(34.42)	(27.37)	(80.4)	(1.504)	-	-

STATION 810 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}11'N$ $127^{\circ}03'W$ July 11, 1949 1127 GCT Wire angle: 27°
 Sounding: missing Depth of observation: 1,472 m. Weather: overcast
 Sea: high Wind: 340° , force 4.

0	17.79	33.68	24.33	360.5	.0000	4.88	0.56
10	17.78	33.67	24.33	361.2	.0362	4.88	0.50
20	17.80	33.67	24.32	361.8	.0725	4.90	0.46
30	17.79	33.71	24.36	359.1	.1087	4.93	0.59
50	15.98	33.68	24.76	321.6	.1771	4.89	0.63
75	15.60	33.75	24.90	308.9	.2564	4.70	0.82
100	15.06	33.79	25.05	295.1	.3324	4.53	1.27
150	12.72	33.80	25.54	249.2	.469	4.23	1.42
200	9.75	33.77	26.05	200.6	.583	4.05	1.46
250	8.64	33.79	26.25	182.7	.679	3.94	1.56
300	7.86	33.87	26.43	165.8	.767	3.81	1.75
400	6.65	34.03	26.73	138.7	.920	3.18	2.25
500	5.87	34.16	26.93	119.8	1.051	0.93	2.54
600	5.31	34.23	27.05	109.2	1.166	0.67	2.63
700	4.92	34.23	27.10	105.2	1.275	0.68	2.69
800	4.58	34.24	27.14	101.4	1.379	0.69	2.72
1000	3.98	34.37	27.31	86.6	1.569	0.71	2.76

STATION 901 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}39'N$ $118^{\circ}09'W$ July 1, 1949 0716 GCT Wire angle: 2° Sounding: missing Depth of observation: 1,196 m. Weather: overcast
Sea: moderate Wind: 280° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O₂ (ml/L)	P <small>O</small> ₂ -P (Mg at/L)
0	18.32	33.66	24.19	374.2	.0000	5.54	-
10	18.26	33.66	24.20	373.1	.0375	5.50	-
20	16.50	33.45	24.46	348.8	.0738	6.32	-
30	14.07	33.44	24.99	299.0	.1063	6.38	-
50	11.98	33.46	25.42	258.3	.1623	5.10	-
75	10.58	33.60	25.78	224.4	.2230	3.52	-
100	9.97	33.75	26.00	203.6	.2768	2.79	-
150	9.31	33.91	26.24	182.3	.374	2.56	-
200	8.77	34.04	26.43	165.0	.461	1.89	-
250	8.13	34.12	26.58	150.6	.541	1.60	-
300	7.62	34.18	26.71	139.6	.614	1.30	-
400	7.25	34.33	26.88	124.8	.747	0.58	-
500	6.50	34.34	26.99	115.1	.868	0.48	-
600	5.73	34.35	27.09	105.6	.980	0.47	-
700	5.17	34.36	27.17	98.6	1.083	0.47	-
800	4.80	34.37	27.22	94.6	1.180	0.46	-
1000	4.12	34.43	27.34	83.6	1.360	0.59	-

STATION 902 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}22'N$ $118^{\circ}51'W$ July 1, 1949 1350 GCT Wire angle: 0° Sounding: missing Depth of observation: 393 m. Weather: cloudy
Sea: moderate Wind: 270° , force 2.

0	16.83	33.57	24.48	346.7	.0000	5.62	0.40
10	16.63	33.55	24.51	343.9	.0347	5.61	0.26
20	15.92	33.48	24.62	333.9	.0687	5.73	0.23
30	15.07	33.44	24.78	319.3	.1015	5.81	0.22
50	11.82	33.40	25.40	259.9	.1597	5.54	0.73
75	10.10	33.56	25.83	219.4	.2200	3.62	0.88
100	9.40	33.81	26.14	190.2	.2715	2.82	1.50
150	8.66	34.09	26.48	159.0	.359	2.19	2.01
200	8.17	34.10	26.56	151.7	.438	1.70	2.29
250	7.66	34.11	26.65	144.5	.512	1.29	2.47
300	7.22	34.14	26.73	136.8	.583	0.94	2.61
400	6.64	34.23	26.88	122.8	.714	0.70	-

STATION 903 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}03'N$ $119^{\circ}32'W$ July 1, 1949 1914 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,107 m. Weather: cloudy
 Sea: moderate Wind: 290° , force 2.

Depth (m)	T ($^{\circ}$ C)	S (‰)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	14.98	33.55	24.88	308.5	.0000	5.81	0.70
10	14.97	33.48	24.83	313.7	.0312	5.89	0.70
20	14.95	33.51	24.86	311.3	.0626	5.86	0.70
30	14.14	33.50	25.02	296.0	.0931	5.77	0.74
50	12.18	33.39	25.33	267.1	.1497	5.47	0.97
75	10.75	33.46	25.64	237.5	.2131	4.80	1.30
100	9.64	33.58	25.92	210.9	.2695	3.66	1.71
150	8.55	33.93	26.37	169.1	.365	2.50	2.22
200	8.00	34.04	26.54	153.6	.446	1.92	2.37
250	7.60	34.09	26.64	145.2	.522	1.17	2.53
300	7.18	34.12	26.72	137.7	.593	0.85	2.68
400	6.58	34.21	26.88	124.6	.725	0.55	2.91
500	6.14	34.29	27.00	114.0	.845	0.40	3.06
600	5.68	34.36	27.11	104.3	.956	0.41	3.09
700	5.22	34.40	27.20	96.3	1.057	0.47	3.09
800	4.78	34.43	27.27	89.9	1.151	0.56	3.10
1000	4.07	34.43	27.35	83.1	1.326	0.64	3.02

STATION 904 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}44'N$ $120^{\circ}13'W$ July 2, 1949 0247, 0444 GCT Wire angle:
 $20^{\circ}, 25^{\circ}$ Sounding: missing Depth of observation: 1,085, 1,761 m.
 Weather: overcast Sea: moderate Wind: 290° , force 2.

0	15.80	33.38	24.57	338.1	.0000	5.80	0.48
10	15.74	33.33	24.54	340.7	.0341	5.75	0.48
20	15.67	33.33	24.56	339.3	.0682	5.81	0.50
30	15.55	33.33	24.59	337.2	.1022	5.86	0.51
50	15.14	33.36	24.70	327.0	.1689	5.92	0.50
75	13.37	33.44	25.13	286.6	.2461	5.94	0.56
100	11.70	33.40	25.42	259.0	.3147	5.13	1.04
150	9.62	33.66	25.99	205.7	.432	3.45	1.85
200	8.60	34.02	26.44	164.0	.525	2.31	2.28
250	8.12	34.14	26.60	149.0	.604	1.73	2.52
300	7.78	34.20	26.70	140.4	.676	1.26	2.69
400	7.12	34.26	26.84	128.0	.812	0.60	2.93
500	6.48	34.30	26.96	117.8	.936	0.37	3.08
600	5.86	34.35	27.08	107.2	1.049	0.31	3.11
700	5.30	34.41	27.20	96.7	1.152	0.35	3.13
800	4.80	34.44	27.28	89.5	1.246	0.42	3.18
1000	4.04	34.45	27.36	81.3	1.420	0.64	3.28
1200	3.55	34.50	27.46	73.4	1.576	0.81	3.36
1500	2.90	34.55	27.56	64.1	1.785	1.16	3.25

STATION 905 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}27'N$ $120^{\circ}53'W$ July 2, 1949 1026 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,192 m. Weather: overcast
 Sea: moderate Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P O ₂ -P (Mg at/L)
0	16.55	33.39	24.41	353.6	.0000	5.66	0.44
10	16.55	33.37	24.39	355.4	.0356	5.60	0.44
20	16.47	33.37	24.41	354.0	.0712	5.65	0.48
30	16.28	33.37	24.45	350.1	.1066	5.77	0.48
50	14.38	33.37	24.87	310.7	.1730	6.35	0.42
75	12.55	33.31	25.19	280.4	.2373	6.09	0.53
100	11.60	33.40	25.44	257.2	.3149	5.38	0.85
150	9.48	33.66	26.01	203.5	.431	3.72	1.55
200	8.64	33.97	26.39	168.3	.524	2.97	1.79
250	7.94	34.04	26.55	153.6	.606	2.33	1.90
300	7.38	34.07	26.66	144.2	.681	1.77	1.99
400	6.51	34.13	26.82	129.5	.818	0.97	2.78
500	5.90	34.21	26.96	116.8	.943	0.60	3.02
600	5.38	34.27	27.07	107.0	1.056	0.41	3.09
700	4.98	34.32	27.16	99.3	1.160	0.45	3.08
800	4.60	34.35	27.23	93.5	1.257	0.58	3.06
1000	3.95	34.39	27.33	84.6	1.437	0.75	3.00

STATION 906 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}08'N$ $121^{\circ}34'W$ July 2, 1949 1807 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,158 m. Weather: overcast
 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)	P O ₂ -P (Mg at/L)
0	16.77	33.44	24.39	354.9	.0000	5.65	0.66
10	16.77	33.42	24.38	356.6	.0357	5.61	0.57
20	16.77	33.43	24.42	352.4	.0713	5.58	0.53
30	16.74	33.46	24.42	353.5	.1068	5.60	0.53
50	15.50	33.38	24.64	332.9	.1757	5.74	0.60
75	12.28	33.37	25.29	270.9	.2516	5.92	0.81
100	10.73	33.38	25.58	243.7	.3164	4.70	1.31
150	9.16	33.66	26.06	198.5	.428	3.45	1.84
200	8.40	33.95	26.41	166.1	.519	2.48	2.25
250	7.73	34.05	26.59	149.9	.599	1.97	2.52
300	7.21	34.11	26.71	138.9	.672	1.53	2.74
400	6.47	34.20	26.88	123.7	.804	0.68	3.04
500	5.89	34.24	26.99	114.5	.924	0.43	3.24
600	5.42	34.28	27.08	106.4	1.036	0.34	3.31
700	4.98	34.33	27.17	98.5	1.139	0.34	3.32
800	4.57	34.39	27.26	90.1	1.234	0.42	3.32
1000	3.87	34.47	27.40	77.9	1.404	0.65	3.29

STATION 907 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}48'N$ $122^{\circ}15'W$ July 2, 1949 2328 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,100 m. Weather: overcast
 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)	P_{O_2-P} (mg at/L)
0	16.46	33.31	24.37	357.4	.0000	5.70	0.47
10	16.42	33.28	24.35	359.1	.0360	5.88	0.41
20	16.36	33.31	24.39	355.9	.0719	5.86	0.46
30	16.27	33.28	24.38	356.6	.1076	5.88	0.45
50	14.49	33.27	24.77	320.3	.1757	5.95	0.44
75	12.72	33.36	25.20	279.9	.2511	6.00	0.48
100	11.73	33.43	25.44	257.2	.3187	5.82	0.54
150	9.77	33.48	25.82	221.5	.439	4.68	1.31
200	8.53	33.71	26.20	186.0	.542	3.87	1.74
250	7.77	33.91	26.47	160.8	.629	3.44	2.10
300	7.22	34.05	26.66	143.4	.706	2.59	2.38
400	6.58	34.18	26.85	126.8	.842	0.94	2.74
500	6.09	34.24	26.96	117.0	.965	0.48	2.94
600	5.60	34.27	27.05	109.8	1.079	0.35	3.00
700	5.12	34.30	27.13	102.4	1.186	0.35	3.02
800	4.62	34.34	27.22	94.5	1.286	0.40	3.02
1000	3.85	34.46	27.39	78.3	1.460	0.64	2.99

STATION 908 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}30'N$ $122^{\circ}57'W$ July 3, 1949 0724 GCT Wire angle: 35°
 Sounding: missing Depth of observation: 1,146 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)	P_{O_2-P} (mg at/L)
0	17.23	33.49	24.32	361.5	.0000	5.57	0.48
10	17.23	33.44	24.28	365.5	.0365	5.55	0.48
20	17.22	33.42	24.27	366.9	.0733	5.62	0.52
30	17.08	33.42	24.30	364.3	.1100	5.69	0.48
50	15.55	33.44	24.67	329.8	.1797	5.88	0.41
75	14.27	33.50	24.99	299.8	.2589	5.93	0.46
100	13.59	33.50	25.13	286.8	.3327	5.78	0.58
150	10.57	33.46	25.67	236.1	.464	5.14	1.01
200	8.97	33.61	26.06	200.1	.574	4.04	1.73
250	8.08	33.96	26.47	161.6	.665	2.92	2.15
300	7.33	34.03	26.63	146.3	.743	2.12	2.40
400	6.38	34.12	26.83	128.5	.881	1.09	2.76
500	5.82	34.18	26.95	118.0	1.006	0.60	2.96
600	5.33	34.26	27.07	107.0	1.119	0.44	3.02
700	4.90	34.32	27.17	98.3	1.223	0.39	3.04
800	4.50	34.37	27.26	90.7	1.318	0.38	3.05
1000	3.82	34.43	27.37	80.2	1.491	0.57	3.04

STATION 909 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}11'N$ $123^{\circ}37'W$ July 3, 1949 1247 GCT Wire angle: 5°
 Sounding: missing Depth of observation: 1,164 m. Weather: overcast
 Sea: rough Wind: 350° , force 2.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P (Mg at/L)
0	17.57	33.57	24.30	363.4	.0000	5.41	0.53
10	17.56	33.57	24.31	363.4	.0365	5.51	0.53
20	17.53	33.57	24.31	363.1	.0730	5.15	0.40
30	17.50	33.56	24.31	363.6	.1094	5.07	0.37
50	15.57	33.48	24.70	327.4	.1789	5.70	0.41
75	14.63	33.51	24.92	306.3	.2586	5.74	0.34
100	13.95	33.46	25.03	296.9	.3344	5.86	0.36
150	11.56	33.43	25.47	255.3	.473	5.26	0.38
200	9.07	33.63	26.06	200.0	.588	4.45	0.76
250	8.35	33.86	26.36	173.0	.682	3.82	1.06
300	7.77	34.00	26.54	155.0	.765	3.11	1.40
400	6.75	34.11	26.77	134.2	.910	1.25	2.72
500	5.96	34.21	26.96	117.5	1.037	0.52	2.96
600	5.37	34.28	27.08	106.3	1.150	0.45	3.09
700	4.89	34.32	27.17	98.1	1.253	0.43	3.14
800	4.48	34.35	27.24	92.0	1.349	0.45	3.15
1000	3.78	34.43	27.38	79.7	1.523	0.67	3.11

STATION 910 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}51'N$ $124^{\circ}21'W$ July 3, 1949 2004 GCT Wire angle: 18°
 Sounding: missing Depth of observation: 1,253 mi. Weather: drizzle
 Sea: rough Wind: 320° , force 5.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P (Mg at/L)
0	17.90	33.77	24.38	356.5	.0000	5.39	0.66
10	17.89	33.73	24.35	359.5	.0359	5.53	0.43
20	17.87	33.72	24.34	360.2	.0721	5.54	0.54
30	17.83	33.69	24.33	361.5	.1083	5.56	0.54
50	15.69	33.56	24.73	323.9	.1772	5.65	0.48
75	14.39	33.44	24.92	306.4	.2564	5.84	0.49
100	13.78	33.44	25.05	295.1	.3321	5.91	0.56
150	11.10	33.32	25.47	255.4	.471	5.00	0.98
200	9.34	33.76	26.11	194.7	.584	3.95	1.44
250	8.37	33.91	26.38	169.5	.676	3.18	1.85
300	7.62	34.00	26.57	152.9	.757	2.44	2.18
400	6.52	34.13	26.82	129.5	.899	1.24	2.69
500	5.84	34.22	26.98	115.3	1.023	0.56	2.92
600	5.33	34.29	27.10	105.0	1.134	0.35	3.02
700	4.89	34.35	27.20	95.8	1.235	0.36	3.06
800	4.48	34.40	27.28	88.2	1.328	0.41	3.08
1000	3.82	34.46	27.40	77.9	1.496	0.61	3.08

STATION 911 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}32'N$ $124^{\circ}54'W$ July 4, 1949 0649 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,174 m. Weather: overcast
 Sea: rough Wind: 20° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P (mg at/L)
0	18.25	33.71	24.24	368.9	.0000	5.23	0.43
10	18.22	33.75	24.28	365.6	.0369	5.11	0.38
20	18.20	33.74	24.28	366.2	.0736	5.15	0.38
30	18.16	33.71	24.27	367.8	.1105	5.23	0.38
50	15.85	33.47	24.63	334.0	.1810	5.40	0.38
75	14.38	33.42	24.91	307.7	.2616	5.57	0.41
100	13.84	33.40	25.00	299.2	.3380	5.60	0.42
150	12.22	33.41	25.34	268.5	.481	5.25	0.76
200	10.08	33.67	25.92	213.3	.602	4.40	1.21
250	8.58	33.84	26.30	178.0	.701	3.63	1.70
300	7.77	33.98	26.53	156.5	.785	2.89	2.11
400	6.73	34.13	26.79	132.4	.931	1.11	2.77
500	5.95	34.20	26.95	118.2	1.057	0.50	3.06
600	5.39	34.26	27.07	107.9	1.171	0.35	3.15
700	4.97	34.32	27.16	99.1	1.276	0.35	3.16
800	4.57	34.38	27.26	90.9	1.372	0.40	3.17
1000	3.85	34.48	27.41	76.9	1.541	0.58	3.12

STATION 1001 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}20'N$ $116^{\circ}55'W$ July 7, 1949 0643 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 694 m. Weather: cloudy
 Sea: rough Wind: 330° , force 2.

0	18.85	33.75	24.13	380.3	.0000	5.28	0.55
10	18.85	33.68	24.07	385.6	.0384	5.38	0.56
20	18.43	33.63	24.14	379.5	.0769	5.73	0.58
30	15.50	33.60	24.81	316.4	.1118	5.93	0.60
50	12.50	33.55	25.39	261.1	.1698	5.98	0.65
75	10.20	33.62	25.86	216.5	.2299	3.92	1.59
100	9.45	33.79	26.12	192.3	.2813	3.25	1.81
150	9.68	34.16	26.37	169.5	.372	1.66	2.28
200	9.46	34.27	26.50	158.4	.455	1.48	2.49
250	9.23	34.32	26.57	152.7	.533	1.10	2.71
300	8.93	34.33	26.63	147.0	.609	0.83	2.84
400	7.68	34.29	26.78	133.9	.750	0.69	2.92
500	6.90	34.32	26.92	121.9	.879	0.54	3.04
600	6.18	34.36	27.05	110.8	.997	0.40	3.17
700	(5.44)	(34.39)	(27.16)	(100.0)	(1.103)	+0.44	3.16
800	(4.88)	(34.41)	(27.24)	(92.5)	(1.200)	-	-
1000	(4.09)	(34.47)	(27.38)	(80.3)	(1.375)	-	-

STATION 1002 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}58'N$ $117^{\circ}33'W$ July 7, 1949 0100 GCT Wire angle: 11°
 Sounding: missing Depth of observation: 1,149 m. Weather: cloudy
 Sea: rough Wind: 320° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	18.45	33.69	24.18	375.0	.0000	5.70	0.55
10	18.41	33.68	24.18	375.2	.0377	5.74	0.41
20	18.30	33.69	24.21	372.2	.0752	5.50	0.41
30	17.94	33.65	24.27	367.0	.1123	5.50	0.46
50	12.43	33.53	25.39	261.2	.1754	6.01	0.82
75	10.63	33.64	25.80	222.2	.2362	3.62	1.44
100	9.70	33.71	26.02	202.2	.2896	3.30	1.63
150	8.59	33.94	26.37	169.0	.383	3.75	1.80
200	8.21	34.07	26.53	154.6	.464	2.12	2.30
250	7.97	34.17	26.65	144.6	.540	1.48	2.61
300	7.63	34.20	26.72	138.3	.611	1.19	2.76
400	6.79	34.25	26.88	124.3	.743	0.76	2.95
500	6.16	34.32	27.02	112.0	.863	0.48	3.12
600	5.58	34.38	27.14	101.5	.970	0.40	3.18
700	5.05	34.42	27.23	92.9	1.068	0.42	3.18
800	4.65	34.46	27.31	86.0	1.159	0.50	3.18
1000	4.00	34.50	27.41	77.2	1.324	0.70	-

STATION 1003 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}37'N$ $118^{\circ}12'W$ July 6, 1949 1806 GCT Wire angle: 14°
 Sounding: missing Depth of observation: 1,252 m. Weather: overcast
 Sea: very rough Wind: 330° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	17.38	33.60	24.37	357.0	.0000	5.28	0.66
10	17.38	33.57	24.35	359.2	.0360	5.55	0.46
20	17.40	33.57	24.34	360.0	.0720	5.51	0.48
30	17.36	33.50	24.30	364.6	.1084	5.54	0.58
50	13.69	33.28	24.94	303.5	.1756	6.13	0.42
75	12.49	33.33	25.22	277.6	.2486	5.91	0.54
100	11.10	33.46	25.58	244.0	.3142	5.31	1.03
150	9.76	33.84	26.11	194.4	.424	3.29	2.05
200	9.22	34.14	26.43	164.7	.515	2.29	2.46
250	8.90	34.29	26.60	149.6	.594	1.77	2.68
300	8.47	34.33	26.70	140.8	.667	1.47	2.85
400	7.34	34.29	26.83	129.0	.803	0.92	3.08
500	6.50	34.31	26.97	117.2	.927	0.55	3.28
600	5.79	34.34	27.08	107.0	1.040	0.42	3.41
700	5.20	34.37	27.18	98.4	1.144	0.49	3.46
800	4.75	34.41	27.26	90.9	1.240	0.64	3.46
1000	4.11	34.47	27.37	80.6	1.413	0.60	3.45

STATION 1004 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}15'N$ $118^{\circ}50'W$ July 6, 1949 1053 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,143 m. Weather: overcast
 Sea: very rough Wind: 340° , force 6.

Depth (m)	T (°C)	S (°/oo)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P O ₂ -P (mg at/L)
0	17.18	33.55	24.38	356.0	.0000	5.54	0.77
10	17.18	33.48	24.33	361.3	.0360	5.97	0.45
20	17.15	33.48	24.33	361.0	.0723	5.66	0.42
30	17.10	33.43	24.31	364.0	.1087	5.69	0.41
50	13.96	33.35	24.94	303.7	.1758	6.15	0.42
75	13.05	33.37	25.14	285.3	.2498	6.30	0.46
100	11.83	33.31	25.33	267.5	.3197	5.56	0.73
150	9.60	33.57	25.92	212.2	.4410	4.12	1.45
200	8.57	33.93	26.37	170.3	.536	2.94	2.00
250	7.90	34.02	26.54	154.5	.618	2.23	2.33
300	7.33	34.05	26.65	144.9	.694	1.71	2.58
400	6.34	34.11	26.83	128.7	.831	0.91	2.98
500	5.64	34.20	26.99	114.1	.954	0.46	3.21
600	5.08	34.28	27.12	102.7	1.063	0.33	3.31
700	4.69	34.34	27.21	94.2	1.163	0.34	3.33
800	4.38	34.40	27.29	87.2	1.254	0.39	3.32
1000	3.83	34.49	27.42	76.1	1.419	0.61	3.27

STATION 1005 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}53'N$ $119^{\circ}59'W$ July 6, 1949 0541 GCT Wire angle: 40°
 Sounding: missing Depth of observation: 1,112 m. Weather: overcast
 Sea: very rough Wind: 330° , force 5.

0	17.12	33.51	24.36	357.5	.0000	5.40	0.49
10	17.12	33.51	24.36	357.7	.0359	5.47	0.35
20	17.10	33.49	24.35	359.2	.0719	5.50	0.45
30	17.00	33.45	24.34	360.3	.1080	5.85	0.46
50	14.57	33.37	24.83	314.5	.1758	5.94	0.46
75	13.57	33.41	25.07	292.4	.2521	5.86	0.42
100	12.53	33.39	25.26	274.6	.3234	5.61	0.42
150	10.15	33.44	25.73	230.5	.450	4.62	0.59
200	8.85	33.81	26.23	183.4	.555	3.50	1.18
250	8.06	34.01	26.51	157.7	.641	2.61	1.48
300	7.46	34.09	26.66	143.8	.716	2.11	2.20
400	6.41	34.13	26.83	128.1	.854	1.00	2.92
500	5.62	34.16	26.96	117.0	.977	0.50	3.14
600	5.05	34.26	27.11	103.7	1.088	0.40	3.23
700	4.65	34.34	27.21	93.8	1.188	0.40	3.27
800	4.34	34.40	27.29	86.6	1.279	0.45	3.28
1000	3.83	34.47	27.40	77.6	1.445	0.59	3.25

STATION 1006 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}32'N$ $120^{\circ}06'W$ July 5, 1949 2232 GCT Wire angle: 12°
 Sounding: missing Depth of observation: 1,106 m. Weather: overcast
 Sea: rough Wind: 360° , force 5.

Depth (m)	T (°C)	S (‰)	σ _t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P (Mg at/L)
0	18.07	33.71	24.29	365.0	.0000	5.50	0.78
10	18.06	33.71	24.29	364.7	.0366	5.41	0.35
20	18.04	33.71	24.29	364.7	.0732	5.42	0.34
30	17.96	33.72	24.32	362.5	.1098	5.47	0.32
50	16.49	33.75	24.70	327.5	.1791	5.65	0.28
75	15.28	33.61	24.86	312.2	.2595	5.98	0.35
100	14.57	33.57	24.98	301.2	.3367	5.95	0.36
150	12.86	33.44	25.23	278.1	.482	4.76	0.56
200	10.18	33.74	25.96	209.7	.605	3.58	1.50
250	8.70	33.93	26.35	173.1	.702	2.92	1.96
300	7.91	33.99	26.51	157.8	.785	2.45	2.22
400	6.85	34.08	26.74	137.8	.934	1.35	2.58
500	5.88	34.14	26.91	121.6	1.065	0.78	2.89
600	5.25	34.21	27.04	109.8	1.182	0.46	3.03
700	4.82	34.31	27.17	98.0	1.286	0.44	3.06
800	4.48	34.42	27.30	86.9	1.380	0.45	3.08
1000	3.89	34.48	27.41	77.4	1.546	0.65	3.06

STATION 1007 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}10'N$ $120^{\circ}46'W$ July 5, 1949 1758 GCT Wire angle: 28°
 Sounding: missing Depth of observation: 1,173 m. Weather: overcast
 Sea: rough Wind: 330° , force 4.

Depth (m)	T (°C)	S (‰)	σ _t (mg/cm ³)	10 ⁵ δ	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P (Mg at/L)
0	18.67	33.95	24.32	361.5	.0000	5.41	0.56
10	18.67	33.87	24.26	367.6	.0366	5.44	0.43
20	18.66	33.87	24.27	367.4	.0735	5.38	0.40
30	18.50	33.85	24.29	365.7	.1103	5.60	0.38
50	16.04	33.72	24.77	320.1	.1792	5.82	0.36
75	15.30	33.68	24.91	307.5	.2581	5.81	0.36
100	14.90	33.71	25.02	297.6	.3342	5.70	0.35
150	11.81	33.56	25.53	250.3	.472	4.81	0.43
200	9.50	33.81	26.13	193.5	.584	3.80	0.91
250	8.50	34.17	26.57	152.6	.671	2.92	1.09
300	8.25	34.30	26.71	140.1	.745	2.00	1.51
400	7.70	34.33	26.81	131.2	.831	0.61	3.01
500	6.75	34.33	26.95	119.2	1.008	0.35	3.15
600	5.95	34.37	27.08	107.1	1.122	0.32	3.21
700	5.32	34.41	27.19	97.0	1.225	0.32	3.23
800	4.88	34.43	27.26	91.0	1.320	0.35	3.24
1000	4.18	34.43	27.34	84.3	1.497	0.60	3.24

STATION 1008 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}50'N$ $121^{\circ}19'W$ July 5, 1949 1114 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,170 m. Weather: drizzle
 Sea: rough Wind: 340° , force 3.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}/\text{oo}$)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (Mg at/L)
0	18.62	33.84	24.25	368.0	.0000	5.25	0.80
10	18.62	33.84	24.25	368.2	.0370	5.26	0.36
20	18.62	33.86	24.27	367.2	.0739	5.23	0.35
30	18.57	33.86	24.28	366.4	.1107	5.32	0.35
50	16.93	33.87	24.68	328.5	.1806	5.52	0.32
75	15.88	33.96	25.00	299.4	.2595	5.53	0.38
100	15.42	33.77	24.95	304.0	.3354	5.45	0.35
150	13.65	33.86	25.40	262.9	.478	5.07	0.60
200	9.78	33.69	25.99	206.7	.596	3.80	1.54
250	8.77	33.91	26.32	175.6	.693	3.55	1.92
300	8.08	34.07	26.55	154.5	.776	3.22	2.23
400	6.92	34.12	26.76	135.7	.922	1.31	2.76
500	6.05	34.20	26.94	119.6	1.051	0.76	2.93
600	5.47	34.29	27.08	106.7	1.165	0.55	3.05
700	5.11	34.38	27.19	96.5	1.268	0.45	3.14
800	4.75	34.44	27.28	88.7	1.361	0.42	3.18
1000	4.09	34.49	27.39	78.9	1.531	0.55	3.16

STATION 1009 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}30'N$ $121^{\circ}52'W$ July 5, 1949 0614 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,161 m. Weather: overcast
 Sea: rough Wind: 340° , force 4.

0	18.75	33.82	24.20	372.8	.0000	5.45	0.62
10	18.75	33.75	24.15	377.9	.0377	5.45	0.37
20	18.73	33.75	24.16	377.7	.0756	5.52	0.36
30	18.55	33.74	24.19	374.8	.1134	5.62	0.35
50	16.75	33.67	24.57	339.1	.1852	5.89	0.36
75	15.47	33.62	24.83	315.5	.2674	5.95	0.37
100	14.54	33.64	25.04	295.7	.3443	5.80	0.36
150	11.65	33.49	25.50	252.6	.482	4.50	1.27
200	9.57	33.90	26.18	188.1	.593	2.97	1.82
250	9.05	34.12	26.44	164.7	.682	2.05	2.16
300	8.54	34.18	26.57	153.2	.762	1.60	2.39
400	7.12	34.09	26.71	140.7	.910	1.07	2.74
500	6.28	34.22	26.92	121.0	1.042	0.61	2.96
600	5.65	34.35	27.11	104.5	1.156	0.45	3.02
700	5.13	34.38	27.19	96.8	1.258	0.48	3.06
800	4.65	34.38	27.24	91.9	1.353	0.55	3.07
1000	3.91	34.45	27.38	79.8	1.527	0.75	3.04

STATION 1010 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}13'N$ $122^{\circ}25'W$ July 4, 1949 2316, 2335 GCT Wire angle: 5° ,
 8° Sounding: missing Depth of observation: 23, 1,159 m. Weather:
 overcast Sea: rough Wind: 360° , force 3.

Depth (m)	T (°C)	S (°/oo)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	18.75	33.84	24.22	371.5	.0000	5.42	0.99
10	18.74	33.84	24.22	371.6	.0373	5.45	0.37
20	18.72	33.76	24.17	376.8	.0749	5.45	0.33
30	18.36	33.75	24.25	369.4	.1123	5.48	0.32
50	17.00	33.75	24.58	338.9	.1835	5.73	0.34
75	15.28	33.62	24.87	311.6	.2653	6.00	0.44
100	13.00	33.48	25.24	276.8	.3393	5.38	0.57
150	10.65	33.60	25.77	227.0	.466	3.68	1.48
200	9.40	33.90	26.22	185.3	.570	2.88	1.97
250	8.45	34.04	26.47	161.3	.657	2.54	2.50
300	7.73	34.07	26.61	149.2	.735	2.20	2.76
400	6.63	34.08	26.77	134.8	.878	1.29	2.99
500	5.83	34.13	26.91	121.9	1.008	0.65	3.10
600	5.24	34.22	27.05	109.0	1.124	0.45	3.14
700	4.89	34.29	27.15	100.3	1.230	0.47	3.14
800	4.43	34.34	27.24	92.3	1.328	0.50	3.13
1000	3.84	34.44	27.38	79.9	1.502	0.64	3.09

STATION 1011 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}54'N$ $122^{\circ}58'W$ July 4, 1949 1739 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,182 m. Weather: overcast
 Sea: rough Wind: 360° , force 4.

0	18.65	33.87	24.27	366.5	.0000	5.38	0.37
10	18.65	33.84	24.24	369.1	.0369	5.37	0.36
20	18.65	33.84	24.24	369.4	.0740	5.38	0.38
30	18.65	33.84	24.24	369.8	.1111	5.40	0.37
50	18.65	33.86	24.26	369.1	.1854	5.48	0.34
75	15.75	33.66	24.80	318.6	.2718	5.87	0.39
100	13.75	33.57	25.15	284.7	.3477	5.36	0.59
150	10.60	33.63	25.80	224.0	.476	3.70	1.53
200	9.15	33.92	26.27	180.0	.577	3.16	1.88
250	8.70	33.99	26.40	168.7	.665	2.22	2.19
300	8.20	34.05	26.52	157.6	.747	1.50	2.46
400	6.35	34.15	26.86	125.9	.890	1.10	2.90
500	6.16	34.27	26.93	115.8	1.012	0.58	3.11
600	5.75	34.38	27.12	103.7	1.122	0.30	3.22
700	5.25	34.42	27.21	95.3	1.223	0.31	3.25
800	4.77	34.44	27.28	88.9	1.316	0.37	3.26
1000	3.97	34.47	27.39	79.0	1.486	0.62	3.26

STATION 1101 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}25'N$ $116^{\circ}05'W$ July 7, 1949 1916 GCT Wire angle: 3°
 Sounding: missing Depth of observation: 1,152 m. Weather: cloudy
 Sea: moderate Wind: missing, 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 (Mg at/L)
0	18.05	33.68	24.27	366.5	.0000	5.25	0.74
10	18.03	33.66	24.26	367.7	.0369	5.38	0.39
20	18.00	33.66	24.27	367.4	.0738	5.45	0.39
30	16.80	33.65	24.55	341.2	.1093	5.48	0.38
50	14.29	33.43	24.94	304.5	.1742	5.86	0.38
75	12.87	33.40	25.20	279.8	.2477	5.90	0.44
100	11.54	33.43	25.48	253.9	.3148	5.48	0.89
150	10.03	33.85	26.07	198.3	.429	3.53	1.99
200	9.74	34.28	26.45	162.8	.520	1.77	2.42
250	9.43	34.38	26.58	151.4	.599	1.11	2.68
300	8.82	34.39	26.69	141.9	.673	0.93	2.82
400	7.39	34.31	26.84	128.2	.809	0.81	2.88
500	6.59	34.31	26.95	118.4	.933	0.57	3.00
600	5.98	34.32	27.04	111.1	1.049	0.44	3.09
700	5.42	34.36	27.14	101.9	1.156	0.48	3.14
800	4.91	34.40	27.23	93.7	1.255	0.55	3.16
1000	4.08	34.45	27.36	81.8	1.433	0.78	3.18

STATION 1102 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}05'N$ $116^{\circ}43'W$ July 8, 1949 0053 GCT Wire angle: 12°
 Sounding: missing Depth of observation: 1,153 m. Weather: partly cloudy
 Sea: moderate Wind: 330° , force 5.

0	18.77	33.74	24.14	379.0	.0000	5.23	0.44
10	18.49	33.73	24.20	373.6	.0378	5.25	0.39
20	18.39	33.72	24.22	372.0	.0752	5.30	0.36
30	17.86	33.69	24.32	362.3	.1121	5.40	0.36
50	15.67	33.62	24.78	319.2	.1806	5.73	0.40
75	13.62	33.54	25.16	283.8	.2564	5.73	0.57
100	12.06	33.48	25.42	259.4	.3247	5.22	0.91
150	10.42	33.98	26.11	195.1	.439	2.50	1.72
200	10.10	34.29	26.40	168.0	.530	1.23	2.35
250	10.03	34.45	26.54	156.0	.612	0.60	2.56
300	9.91	34.49	26.59	152.1	.690	0.49	2.70
400	8.37	34.40	26.77	136.2	.835	0.75	2.86
500	7.37	34.41	26.92	122.1	.965	0.55	2.93
600	6.55	34.42	27.05	111.4	1.083	0.28	3.00
700	5.83	34.42	27.14	102.8	1.191	0.34	3.08
800	5.18	34.42	27.22	95.8	1.291	0.46	3.14
1000	4.18	34.44	27.34	83.8	1.473	0.74	3.14

STATION 1103 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}47'N$ $117^{\circ}20'W$ July 8, 1949 0709 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,188 m. Weather: cloudy
 Sea: very rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O₂ (ml/L)	P <small>O</small> ₄ -P (μg at/L)
0	17.82	33.64	24.29	364.0	.0000	5.71	0.42
10	17.70	33.62	24.31	363.2	.0365	5.78	0.43
20	17.59	33.60	24.32	362.3	.0729	5.60	0.40
30	17.06	33.55	24.41	354.3	.1089	5.57	0.40
50	13.43	33.45	25.13	286.3	.1733	6.10	0.48
75	11.49	33.53	25.56	245.0	.2401	4.48	1.15
100	10.39	33.74	25.92	211.1	.2974	3.13	1.76
150	9.30	33.97	26.29	177.7	.395	2.66	2.03
200	9.02	34.20	26.51	157.2	.480	1.70	2.35
250	8.86	34.37	26.67	143.0	.555	0.91	2.63
300	8.66	34.43	26.75	136.5	.626	0.54	2.88
400	7.75	34.43	26.88	124.6	.757	0.39	3.00
500	6.87	34.40	26.99	116.0	.879	0.33	3.03
600	6.02	34.38	27.08	107.4	.991	0.30	3.06
700	5.42	34.41	27.18	98.2	1.095	0.35	3.10
800	4.98	34.43	27.25	92.3	1.191	0.41	3.14
1000	4.22	34.48	27.37	81.2	1.367	0.63	3.16

STATION 1104 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}25'N$ $117^{\circ}58'W$ July 8, 1949 1301 GCT Wire angle: 3°
 Sounding: missing Depth of observation: 1,165 m. Weather: cloudy
 Sea: rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O₂ (ml/L)	P <small>O</small> ₄ -P (μg at/L)
0	18.78	33.71	24.11	381.5	.0000	5.54	0.53
10	18.58	33.66	24.12	380.9	.0383	5.54	0.41
20	18.48	33.64	24.13	380.3	.0765	5.62	0.40
30	17.85	33.62	24.27	367.3	.1140	5.63	0.45
50	11.15	33.53	25.62	238.7	.1749	4.50	1.28
75	10.03	33.74	25.98	205.0	.2307	2.25	1.71
100	9.68	33.90	26.17	187.8	.2801	1.90	1.91
150	9.30	34.15	26.42	164.5	.369	1.83	2.19
200	8.57	34.22	26.59	148.9	.448	1.64	2.40
250	8.08	34.24	26.68	141.0	.521	1.25	2.60
300	7.63	34.25	26.76	134.4	.590	0.88	2.79
400	6.83	34.30	26.91	121.1	.719	0.55	3.04
500	6.33	34.34	27.01	112.8	.837	0.35	3.09
600	5.82	34.39	27.12	103.9	.946	0.30	3.13
700	5.33	34.41	27.19	97.0	1.047	0.35	3.21
800	4.86	34.43	27.26	90.8	1.142	0.43	3.26
1000	4.06	34.47	27.38	79.9	1.315	0.69	3.28

STATION 1105 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}04'N$ $118^{\circ}36'W$ July 8, 1949 1826 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,087 m. Weather: overcast
 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)	P_{O_2-P} (mg at/L)
0	18.28	33.64	24.18	374.8	.0000	5.74	0.65
10	18.22	33.60	24.17	376.5	.0377	5.69	0.40
20	18.19	33.62	24.19	374.7	.0754	5.35	0.35
30	18.17	33.65	24.22	372.5	.1129	5.35	0.34
50	16.83	33.66	24.55	341.6	.1847	5.65	0.36
75	14.99	33.57	24.89	309.2	.2665	5.95	0.45
100	14.32	33.64	25.09	291.1	.3420	5.60	0.46
150	11.44	33.46	25.52	251.0	.478	5.55	1.18
200	9.50	33.72	26.06	200.2	.592	3.73	1.99
250	8.57	33.98	26.41	167.4	.685	2.86	2.45
300	7.48	34.02	26.60	149.3	.764	2.30	2.80
400	6.52	34.11	26.81	131.0	.906	1.43	3.13
500	5.88	34.25	27.00	113.5	1.029	0.73	3.22
600	5.25	34.34	27.15	100.3	1.137	0.59	3.31
700	4.62	34.40	27.27	88.9	1.232	0.60	3.42
800	4.17	34.44	27.35	81.6	1.319	0.64	3.44
1000	3.76	34.51	27.44	73.6	1.475	0.77	3.46

STATION 1106 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}37'N$ $119^{\circ}14'W$ July 9, 1949 0000 GCT Wire angle: 23°
 Sounding: missing Depth of observation: 1,089 m. Weather: cloudy
 Sea: rough Wind: 320° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	18.66	33.66	24.10	382.4	.0000	5.70	0.45
10	18.62	33.64	24.10	383.2	.0384	5.45	0.41
20	18.53	33.62	24.11	382.8	.0769	5.45	0.38
30	18.08	33.63	24.22	372.0	.1148	5.48	0.37
50	16.42	33.71	24.68	328.7	.1852	6.08	0.37
75	15.37	33.66	24.88	310.7	.2656	6.10	0.41
100	14.51	33.59	25.01	298.8	.3422	5.91	0.48
150	12.36	33.53	25.40	262.5	.484	5.35	0.39
200	9.69	33.81	26.10	196.5	.599	3.52	1.04
250	8.88	34.04	26.41	168.0	.691	3.02	2.07
300	8.30	34.15	26.58	151.9	.772	2.16	2.48
400	7.35	34.27	26.82	130.6	.914	0.86	2.89
500	6.57	34.32	26.96	117.5	1.039	0.44	3.13
600	5.91	34.35	27.07	107.9	1.153	0.42	3.22
700	5.33	34.38	27.17	99.2	1.257	0.53	3.29
800	4.79	34.41	27.26	91.4	1.354	0.65	3.35
1000	4.00	34.45	27.37	80.8	1.528	0.87	3.45

STATION 1107 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}19'N$ $119^{\circ}51'W$ July 9, 1949 0554 GCT Wire angle: 4°
 Sounding: missing Depth of observation: 1,173 m. Weather: overcast
 Sea: rough Wind: 340° , force 3.

Depth (m)	T (°C)	S (°/oo)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P O ₂ -P (μg at/L)
0	19.35	33.91	24.12	380.8	.0000	5.35	0.53
10	19.33	33.91	24.13	380.6	.0382	5.36	0.41
20	19.28	33.89	24.12	381.3	.0765	5.43	0.37
30	19.00	33.85	24.16	377.6	.1146	5.52	0.37
50	17.25	33.68	24.46	349.6	.1876	5.76	0.40
75	15.19	33.61	24.88	310.4	.2706	6.04	0.42
100	13.53	33.47	25.12	287.8	.3459	5.40	0.45
150	10.84	33.42	25.59	243.6	.480	4.25	0.59
200	9.62	33.89	26.17	189.5	.589	3.34	1.99
250	8.73	34.08	26.46	162.5	.677	2.50	2.38
300	8.14	34.17	26.62	147.9	.756	1.85	2.64
400	7.24	34.24	26.81	131.3	.896	1.14	3.00
500	6.43	34.30	26.97	117.2	1.022	0.59	3.26
600	5.77	34.34	27.08	106.8	1.135	0.40	3.35
700	5.32	34.38	27.17	99.0	1.238	0.50	3.36
800	4.89	34.40	27.24	93.4	1.336	0.61	3.37
1000	4.14	34.46	27.36	81.7	1.513	0.83	3.35

STATION 1108 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}00'N$ $120^{\circ}29'W$ July 9, 1949 1153 GCT Wire angle: 5°
 Sounding: missing Depth of observation: 1,176 m. Weather: overcast
 Sea: rough Wind: 330° , force 3.

Depth (m)	T (°C)	S (°/oo)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O ₂ (ml/L)	P O ₂ -P (μg at/L)
0	19.37	33.95	24.15	378.4	.0000	5.34	0.34
10	19.34	33.91	24.12	380.8	.0381	5.32	0.34
20	19.29	33.91	24.14	380.0	.0763	5.36	0.35
30	18.89	33.89	24.22	372.0	.1140	5.45	0.36
50	17.18	33.77	24.55	341.5	.1858	5.75	0.33
75	14.53	33.65	25.05	294.1	.2656	5.99	0.41
100	12.64	33.49	25.31	269.4	.3365	4.72	1.00
150	10.30	33.81	25.99	205.6	.456	3.15	1.81
200	8.92	33.97	26.35	172.6	.551	3.08	2.02
250	8.10	34.03	26.52	156.8	.634	2.66	2.24
300	7.66	34.08	26.62	147.4	.711	1.85	2.53
400	7.12	34.24	26.83	129.6	.850	0.81	2.97
500	6.32	34.26	26.95	118.6	.976	0.48	3.20
600	5.69	34.27	27.04	111.0	1.091	0.40	3.26
700	5.23	34.31	27.12	103.1	1.200	0.44	3.26
800	4.79	34.34	27.19	97.6	1.301	0.56	3.25
1000	4.05	34.43	27.35	82.8	1.483	0.87	3.24

STATION 1109 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}36'N$ $121^{\circ}07'W$ July 9, 1949 1736 GCT Wire angle: 8°
 Sounding: missing Depth of observation: 1,119 m. Weather: overcast
 Sea: moderate Wind: missing, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (μg at/L)
0	19.05	33.87	24.17	376.5	.0000	5.60	0.38
10	19.03	33.89	24.19	374.7	.0377	5.51	0.35
20	18.98	33.86	24.18	376.2	.0754	5.32	0.32
30	18.92	33.87	24.20	374.1	.1131	5.36	0.30
50	18.28	33.96	24.43	353.0	.1862	5.70	0.28
75	16.93	33.95	24.75	323.3	.2712	6.04	0.29
100	16.31	33.93	24.87	311.8	.3511	5.51	0.32
150	15.17	33.76	25.00	301.1	.505	6.20	0.34
200	12.29	33.58	25.45	258.4	.646	6.05	0.92
250	11.23	33.60	25.66	239.1	.772	5.07	1.19
300	9.35	33.85	26.18	190.0	.880	3.50	1.78
400	6.86	34.20	26.83	129.0	1.040	1.30	2.89
500	6.15	34.30	27.00	113.3	1.163	0.84	3.16
600	5.63	34.36	27.12	103.5	1.272	0.77	3.26
700	5.18	34.40	27.20	95.9	1.373	0.78	3.29
800	4.75	34.44	27.28	88.8	1.466	0.83	3.30
1000	4.00	34.49	27.40	77.9	1.635	0.87	3.30

STATION 1110 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}14'N$ $121^{\circ}48'W$ July 9, 1949 2330 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,174 m. Weather: overcast
 Sea: rough Wind: 330° , force 3.

0	19.50	33.98	24.14	379.3	.0000	5.29	0.38
10	19.50	33.96	24.12	381.1	.0382	5.34	0.35
20	19.45	33.96	24.13	380.2	.0764	5.39	0.38
30	18.95	33.96	24.26	368.4	.1140	5.53	0.39
50	17.35	33.96	24.65	331.4	.1843	6.00	0.32
75	16.07	33.88	24.89	309.8	.2649	6.03	0.40
100	15.35	33.72	24.93	306.4	.3425	5.94	0.38
150	13.68	33.57	25.17	284.7	.491	5.73	0.61
200	10.35	33.61	25.83	222.2	.619	4.35	1.45
250	9.27	33.98	26.30	178.3	.720	3.28	2.10
300	8.47	34.10	26.52	158.0	.804	2.48	2.52
400	7.18	34.20	26.79	133.4	.951	1.29	2.90
500	6.27	34.26	26.96	117.9	1.078	0.66	3.24
600	5.64	34.32	27.08	106.6	1.191	0.41	3.38
700	5.20	34.36	27.17	99.1	1.295	0.46	3.38
800	4.80	34.41	27.25	91.6	1.391	0.58	3.38
1000	4.08	34.46	27.37	81.0	1.566	0.84	3.37

STATION 1111 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}52'N$ $122^{\circ}22'W$ July 10, 1949 0454 GCT Wire angle: 9°
 Sounding: missing Depth of observation: 1,146 m. Weather: cloudy
 Sea: moderate Wind: 340° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	19.89	34.19	24.19	373.9	.0000	5.30	0.42
10	19.87	34.16	24.17	376.0	.0376	5.29	0.33
20	19.84	34.16	24.18	375.4	.0754	5.23	0.33
30	19.68	34.17	24.23	371.2	.1128	5.28	0.33
50	18.15	34.11	24.57	339.1	.1842	5.50	0.32
75	17.04	34.06	24.80	317.9	.2668	5.60	0.34
100	16.48	34.03	24.91	308.2	.3456	5.43	0.33
150	14.75	33.94	25.23	279.3	.493	5.26	0.47
200	10.75	33.55	25.71	233.5	.623	4.21	1.38
250	9.25	33.91	26.25	183.1	.727	3.39	1.90
300	8.16	34.06	26.53	156.2	.813	2.63	2.31
400	6.93	34.15	26.78	133.7	.959	1.64	2.78
500	6.22	34.25	26.96	118.0	1.086	0.91	3.03
600	5.67	34.33	27.09	106.4	1.199	0.52	3.18
700	5.22	34.38	27.18	97.9	1.302	0.55	3.29
800	4.80	34.42	27.26	90.8	1.398	0.56	3.35
1000	4.08	34.47	27.38	80.3	1.571	0.77	3.36

STATION 1201 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}39'N$ $115^{\circ}25'W$ July 12, 1949 2151 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,173 m. Weather: clear
 Sea: very rough Wind: missing, force 3.

0	17.80	33.68	24.33	360.6	.0000	6.04	0.35
10	17.55	33.74	24.44	350.8	.0357	6.15	0.35
20	15.58	33.78	24.93	304.6	.0686	5.05	0.90
30	13.34	33.78	25.40	259.7	.0969	4.34	1.10
50	11.33	33.77	25.78	223.8	.1455	3.75	1.44
75	10.44	33.84	25.99	204.0	.1993	3.16	1.80
100	10.35	34.10	26.21	183.9	.2481	2.60	2.05
150	11.23	34.45	26.32	174.5	.338	0.65	2.67
200	10.50	34.43	26.44	164.2	.424	1.08	2.64
250	10.08	34.50	26.57	153.3	.504	0.66	2.78
300	9.52	34.54	26.69	141.9	.578	0.44	2.91
400	8.29	34.51	26.87	126.8	.713	0.43	3.01
500	7.20	34.46	26.99	115.9	.836	0.35	3.14
600	6.31	34.45	27.10	105.9	.948	0.36	3.28
700	5.60	34.48	27.21	95.4	1.049	0.49	3.33
800	4.99	34.53	27.33	85.1	1.140	0.57	3.35
1000	4.05	34.60	27.49	70.3	1.298	0.70	3.34

STATION 1202 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}05'N$ $115^{\circ}53'W$ July 12, 1949 1909 GCT Wire angle: 8°
 Sounding: missing Depth of observation: 1,148 m. Weather: partly cloudy
 Sea: very rough Wind: 20° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	19.61	33.72	23.91	400.8	.0000	5.10	0.55
10	19.39	33.68	23.93	398.7	.0401	5.46	0.30
20	19.35	33.66	23.93	399.5	.0802	5.31	0.27
30	19.08	33.67	24.01	392.5	.1200	5.40	0.27
50	16.77	33.87	24.72	324.8	.1920	5.95	0.28
75	14.31	33.39	24.90	308.4	.2716	6.14	0.32
100	13.05	33.53	25.26	274.2	.3449	5.72	0.51
150	10.57	33.72	25.88	216.8	.469	3.30	1.59
200	10.30	34.17	26.27	180.0	.568	1.82	2.20
250	10.14	34.45	26.52	157.9	.654	1.17	2.54
300	9.81	34.47	26.59	152.0	.732	0.85	2.72
400	8.14	34.36	26.77	135.5	.877	0.55	2.90
500	7.24	34.38	26.92	122.4	1.007	0.35	3.02
600	6.45	34.41	27.05	110.8	1.124	0.28	3.11
700	5.72	34.42	27.15	101.5	1.231	0.33	3.20
800	5.05	34.43	27.24	93.3	1.330	0.43	3.26
1000	4.07	34.46	27.37	80.8	1.506	0.67	3.24

Station 1203 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}38'N$ $116^{\circ}33'W$ July 12, 1949 1220 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,165 m. Weather: partly cloudy
 Sea: rough Wind: 20° , force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	19.31	33.51	23.83	408.8	.0000	5.70	0.30
10	19.27	33.68	23.97	395.6	.0404	5.54	0.29
20	19.13	33.68	23.99	394.0	.0800	5.55	0.28
30	19.00	33.67	24.03	390.6	.1194	5.63	0.28
50	15.61	33.53	24.77	320.7	.1909	6.17	0.27
75	14.34	33.48	24.96	302.4	.2692	6.17	0.27
100	13.71	33.48	25.09	290.8	.3438	5.76	0.34
150	10.94	33.60	25.72	231.9	.475	3.90	1.36
200	10.15	34.07	26.22	185.0	.580	2.27	2.11
250	9.58	34.28	26.48	161.1	.668	1.60	2.48
300	8.94	34.35	26.64	146.7	.745	1.12	2.68
400	7.79	34.36	26.82	130.3	.885	0.52	2.92
500	6.95	34.37	26.95	118.9	1.010	0.31	3.08
600	6.20	34.38	27.06	109.6	1.126	0.31	3.16
700	5.55	34.41	27.16	100.0	1.231	0.38	3.18
800	5.00	34.45	27.26	91.0	1.328	0.48	3.19
1000	4.14	34.50	27.40	78.9	1.500	0.65	3.19

STATION 1204 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}15'N$ $117^{\circ}08'W$ July 12, 1949 0658 GCT Wire angle: 5° Sounding: missing Depth of observation: 1,180 m. Weather: partly cloudy
Sea: rough Wind: 20° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-F} (mg at/L)
0	19.88	33.91	23.98	393.8	.0000	5.30	0.46
10	19.38	33.78	23.88	403.5	.0400	5.36	0.29
20	19.79	33.78	23.91	401.5	.0804	5.43	0.29
30	19.62	33.78	23.95	397.9	.1206	5.48	0.29
50	18.15	33.77	24.31	363.9	.1971	5.64	0.30
75	15.45	33.64	24.85	313.6	.2823	5.94	0.34
100	14.35	33.55	25.01	293.1	.3592	6.03	0.36
150	11.27	33.55	25.62	241.3	.495	4.03	1.30
200	10.33	34.07	26.19	187.9	.603	2.35	2.07
250	9.38	34.18	26.35	173.4	.694	1.67	2.36
300	9.32	34.23	26.48	161.6	.779	1.34	2.56
400	7.80	34.29	26.77	135.7	.928	0.85	2.87
500	6.90	34.33	26.93	121.3	1.058	0.40	3.02
600	6.16	34.36	27.05	110.4	1.175	0.29	3.11
700	5.55	34.40	27.16	100.6	1.281	0.32	3.16
800	5.00	34.42	27.24	93.2	1.379	0.44	3.18
1000	4.13	34.46	27.37	81.6	1.556	0.70	3.18

STATION 1205 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}57'N$ $117^{\circ}37'W$ July 12, 1949 0212 GCT Wire angle: 5° Sounding: missing Depth of observation: 1,192 m. Weather: partly cloudy
Sea: very rough Wind: 20° , force 1.

0	20.53	34.07	23.94	398.5	.0000	5.70	0.56
10	20.55	34.14	23.98	394.2	.0398	5.78	0.37
20	20.54	34.21	24.04	389.3	.0791	5.64	0.37
30	20.50	34.22	24.06	287.7	.1181	5.64	0.39
50	17.53	33.90	24.56	340.1	.1913	5.94	0.35
75	15.99	33.30	24.85	313.5	.2734	6.20	0.39
100	14.90	33.71	25.02	297.7	.3503	5.87	0.46
150	11.30	33.69	25.72	231.5	.484	3.63	1.56
200	10.57	34.21	26.26	181.6	.588	2.10	1.72
250	10.03	34.36	26.47	162.6	.674	1.29	2.30
300	9.49	34.42	26.61	150.4	.753	0.82	2.74
400	8.30	34.45	26.82	131.4	.895	0.51	3.00
500	7.19	34.43	26.97	117.8	1.021	0.38	3.15
600	6.33	34.39	27.05	110.6	1.136	0.32	3.24
700	5.75	34.41	27.14	102.6	1.244	0.31	3.30
800	5.19	34.44	27.23	94.3	1.343	0.36	3.33
1000	4.26	34.49	27.38	80.9	1.520	0.58	3.34

STATION 1206 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}36'N$ $118^{\circ}12'W$ July 11, 1949 2046 GCT Wire angle: 5°
 Sounding: missing Depth of observation: 1,189 m. Weather: partly cloudy
 Sea: rough Wind: 10° , force 2.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (Mg at/L)
0	20.91	34.29	24.00	392.3	.0000	5.21	0.46
10	20.88	34.25	23.98	394.7	.0395	5.22	0.38
20	20.85	34.25	23.98	394.3	.0791	5.20	0.35
30	20.80	34.24	23.99	394.1	.1187	5.38	0.34
50	18.68	33.96	24.33	362.5	.1947	5.74	0.36
75	16.30	33.80	24.78	320.3	.2806	5.79	0.40
100	13.83	33.66	25.21	279.8	.3561	5.78	0.66
150	11.05	33.78	25.84	220.6	.482	5.14	1.81
200	10.20	34.12	26.25	182.1	.583	3.00	2.23
250	9.57	34.24	26.45	163.8	.671	1.43	2.49
300	9.02	34.30	26.59	151.7	.750	0.75	2.69
400	7.98	34.36	26.80	133.1	.894	0.52	2.96
500	7.13	34.36	26.92	122.3	1.022	0.45	3.12
600	6.35	34.36	27.02	113.0	1.141	0.40	3.22
700	5.66	34.39	27.14	102.8	1.250	0.44	3.26
800	5.06	34.41	27.22	94.7	1.350	0.49	3.28
1000	4.15	34.44	27.35	83.3	1.530	0.63	3.27

STATION 1207 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}07'N$ $118^{\circ}46'W$ July 11, 1949 1451 GCT Wire angle: 3°
 Sounding: missing Depth of observation: 1,192 m. Weather: cloudy
 Sea: rough Wind: 20° , force 2.

0	20.64	34.20	24.00	392.1	.0000	5.27	0.55
10	20.64	34.18	23.99	393.7	.0394	5.24	0.38
20	20.63	34.17	23.98	394.5	.0790	5.27	0.37
30	20.50	34.14	24.00	393.5	.1186	5.35	0.37
50	18.90	33.99	24.30	365.6	.1949	5.65	0.40
75	15.75	33.78	24.89	309.8	.2798	6.22	0.46
100	13.53	33.62	25.24	277.0	.3536	4.85	0.84
150	10.74	33.90	25.99	206.2	.475	2.10	1.78
200	9.93	34.17	26.34	173.8	.571	1.97	2.33
250	9.56	34.32	26.52	157.8	.654	1.74	2.64
300	9.14	34.40	26.65	146.1	.731	1.43	2.82
400	8.07	34.45	26.85	127.8	.869	0.87	3.04
500	6.86	34.41	27.00	114.9	.991	0.40	3.22
600	6.06	34.38	27.08	107.5	1.104	0.30	3.28
700	5.47	34.40	27.17	99.8	1.208	0.38	3.30
800	4.93	34.42	27.25	92.4	1.305	0.44	3.30
1000	4.05	34.48	27.39	79.2	1.479	0.65	3.28

STATION 1208 (Interpolated Values at Standard Depths)

CREST: $24^{\circ}36'N$ $119^{\circ}21'W$ July 11, 1949 0851 GCT Wire angle: 8°
 Sounding: missing Depth of observation: 1,224 m. Weather: cloudy
 Sea: rough Wind: 20° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	21.05	34.38	24.03	389.4	.0000	5.18	-
10	21.04	34.29	23.96	395.9	.0394	5.14	-
20	20.97	34.27	23.97	395.8	.0792	5.27	-
30	20.80	34.26	24.00	392.7	.1187	5.50	-
50	17.00	33.86	24.66	330.9	.1915	5.90	-
75	16.15	33.79	24.80	317.7	.2730	6.06	-
100	15.30	33.73	24.95	304.7	.3513	5.91	-
150	11.00	33.71	25.79	224.9	.4846	3.40	-
200	9.93	34.10	26.28	179.0	.586	2.43	2.19
250	9.66	34.28	26.47	162.4	.672	1.31	2.64
300	9.10	34.36	26.62	143.4	.751	0.75	2.82
400	7.94	34.38	26.82	131.1	.891	0.46	0.97
500	6.86	34.36	26.96	118.4	1.017	0.38	3.16
600	5.99	34.36	27.07	108.2	1.132	0.37	3.24
700	5.41	34.39	27.16	99.7	1.236	0.40	3.24
800	4.91	34.43	27.26	91.5	1.333	0.49	3.24
1000	4.04	34.49	27.40	78.3	1.505	0.70	3.24

STATION 1209 (Interpolated Values at Standard Depths)

CREST: $24^{\circ}10'N$ $119^{\circ}56'W$ July 11, 1949 0245 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,188 m. Weather: overcast
 Sea: rough Wind: 360° , force 3.

0	20.83	34.25	23.99	393.2	.0000	5.10	0.46
10	20.85	34.23	23.97	395.4	.0396	5.00	0.40
20	20.73	34.22	23.99	393.6	.0792	5.06	0.39
30	20.50	34.21	24.05	338.4	.1185	5.18	0.39
50	17.79	33.62	24.29	366.2	.1943	5.49	0.42
75	15.91	33.88	24.93	306.0	.2788	5.60	0.43
100	14.49	33.68	25.08	291.5	.3540	5.27	0.60
150	10.64	33.68	25.83	221.0	.483	3.55	1.57
200	9.97	34.05	26.24	183.4	.585	2.55	2.06
250	9.61	34.28	26.48	161.6	.672	1.58	2.48
300	9.20	34.38	26.62	148.6	.750	0.71	2.80
400	8.09	34.42	26.93	130.5	.890	0.42	3.03
500	7.07	34.44	26.99	115.5	1.015	0.36	3.15
600	6.26	34.45	27.11	105.1	1.126	0.33	3.25
700	5.65	34.45	27.18	98.3	1.229	0.35	3.30
800	5.07	34.45	27.25	92.0	1.325	0.37	3.33
1000	4.11	34.46	27.37	81.4	1.500	0.64	3.32

STATION 1210 (Interpolated Values at Standard Depths)

CREST: $23^{\circ}43'N$ $120^{\circ}30'W$ July 10, 1949 2055 GCT Wire angle: 12°
 Sounding: missing Depth of observation: 1,178 m. Weather: cloudy
 Sea: very rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (mg at/L)
0	20.19	34.05	24.01	391.4	.0000	5.10	0.40
10	20.16	33.95	23.94	398.1	.0396	5.39	0.38
20	20.11	33.88	23.90	402.4	.0798	5.30	0.38
30	19.89	33.87	23.95	397.8	.1200	5.42	0.38
50	17.25	33.89	24.62	334.2	.1936	5.74	0.37
75	16.14	33.83	24.84	314.7	.2751	5.56	0.35
100	15.33	33.74	24.95	304.7	.3530	5.49	0.40
150	12.69	33.60	25.39	263.3	.496	5.18	0.78
200	10.20	33.97	26.14	193.1	.611	2.88	1.90
250	9.76	34.27	26.44	164.8	.701	1.60	2.42
300	9.20	34.33	26.58	152.3	.781	1.06	2.76
400	7.67	34.33	26.82	130.7	.924	0.68	3.07
500	6.63	34.35	26.98	116.2	1.048	0.51	3.16
600	6.01	34.37	27.08	107.8	1.161	0.47	3.23
700	5.50	34.40	27.16	100.1	1.266	0.47	3.30
800	5.00	34.43	27.25	92.6	1.363	0.50	3.35
1000	4.15	34.47	27.37	81.1	1.519	0.67	3.32

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