

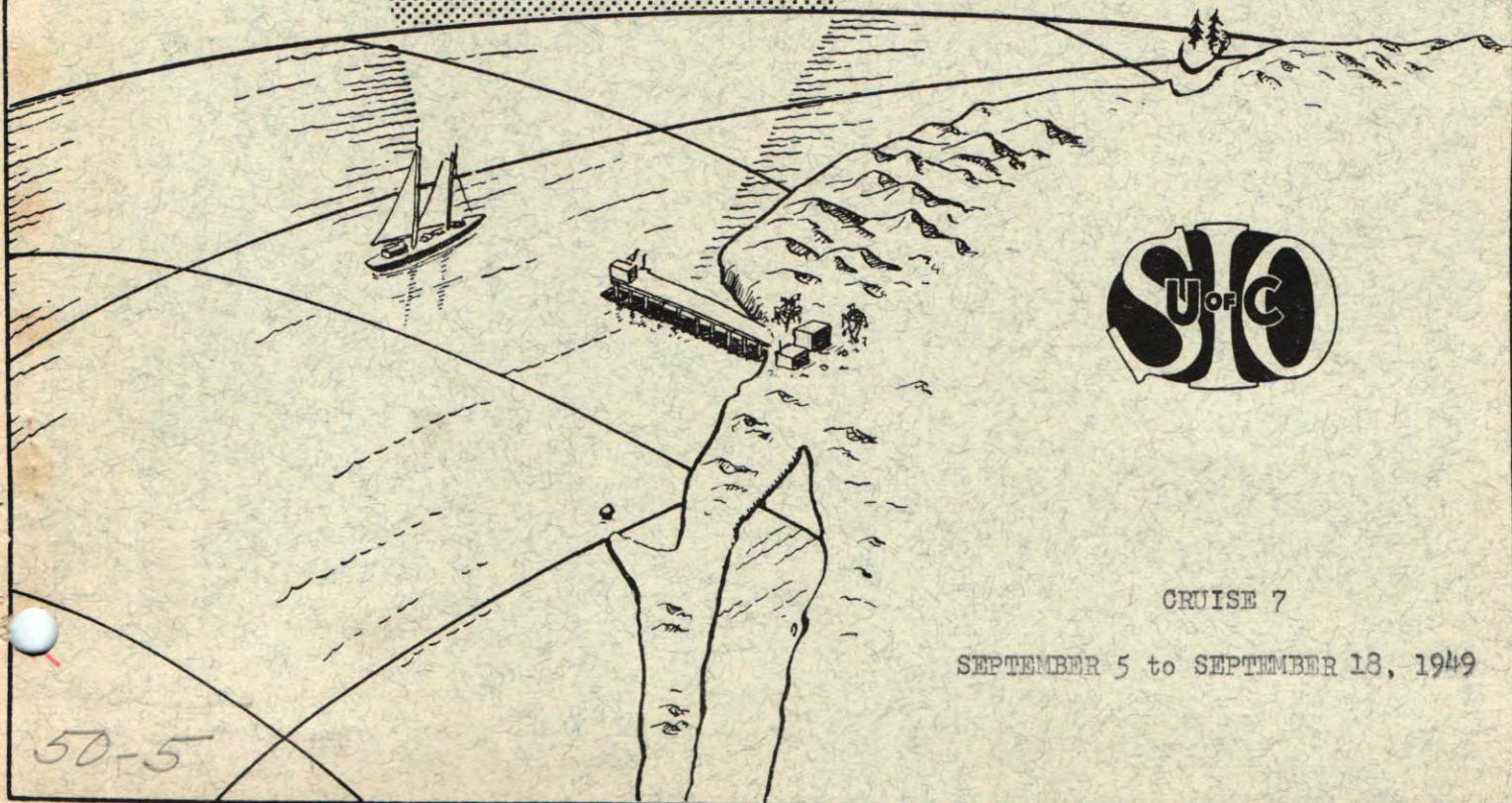
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DRAFTING ROOM
(NOT CORRECTED)
14 APR 1950

Director's Office

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

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



CRUISE 7

SEPTEMBER 5 to SEPTEMBER 18, 1949

50-5

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

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

CRUISE 7 - SEPTEMBER ⁵ to SEPTEMBER 18, 1949

MARINE LIFE RESEARCH PROGRAM

Report prepared March 31, 1950

Physical and Chemical Data Report No. 7

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INTRODUCTION

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

Data are presented in the form of tabulated values at Standard depths and of charts of horizontal distributions at the surface. As explained in the introduction of Physical and Chemical Data Report No. 6 the effect of internal oscillations of tidal period upon the horizontal distributions of dynamic height anomaly and other quantities make it undesirable to present these distributions at selected depths without first applying corrections to the data. Therefore, only the corrected horizontal distribution of dynamic height anomaly and the uncorrected charts of temperature and salinity at the surface are presented in this report.

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, and the time and the wire angle given first are for the shallow cast. Horizontal lines signify the depth to which each cast reached.

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 Nansen bottle pretripping and uncertainty in measurements of wire length due to improper functioning of the meter wheel on stations 202, 209, 210, 301, 302, 304, 305, 401, 402, 404, 405, 407, 408, 409, and 410 it was difficult to ascertain depths of observations on these stations. The positions given for stations 510, 703, 705, and 707 are questionable, and the position given for station 501 is the desired location as the actual position was not determined. On stations 901 - 904, inclusive, oxygen titrations were made only to tenths of milliliters, so that on these stations the values of oxygen tabulated are less accurate than those given for other stations.

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

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

PERSONNEL

Roger Revelle, Acting Director of the Scripps Institution of
Oceanography

MARINE LIFE RESEARCH PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA
AND IN THE PREPARATION OF THIS REPORT

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Olsen, Edward B. MV HORIZON

Technicians

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Mead, Richard V., " " "
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Beckwith, Warren W., Marine Technician
Carlson, Deane R., " " "
Clark, Peter S., " " "
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Lodge, Mary Ann, Laboratory Technician
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Wilimovsky, Norman J., Marine Biologist, U.S. Fish and Wildlife
Service

Ships' Captains

Joelson, Stanley, MV BLACK DOUGLAS

MLR CRUISE 7
SEPT. 5 - SEPT. 18, 1949

STATION POSITIONS

BLACK DOUGLAS
SEPTEMBER 5, 1949
TO
SEPTEMBER 14, 1949

HORIZON
SEPTEMBER 6, 1949
TO
SEPTEMBER 18, 1949

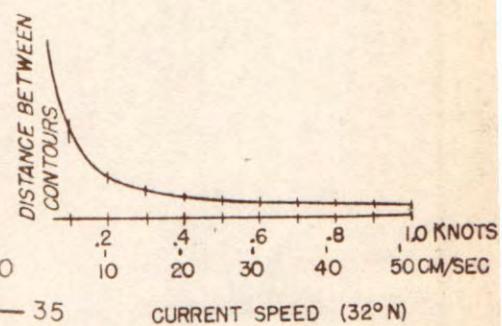
CREST
SEPTEMBER 5, 1949
TO
SEPTEMBER 16, 1949

MLR CRUISE 7
SEPT. 5-SEPT. 18, 1949

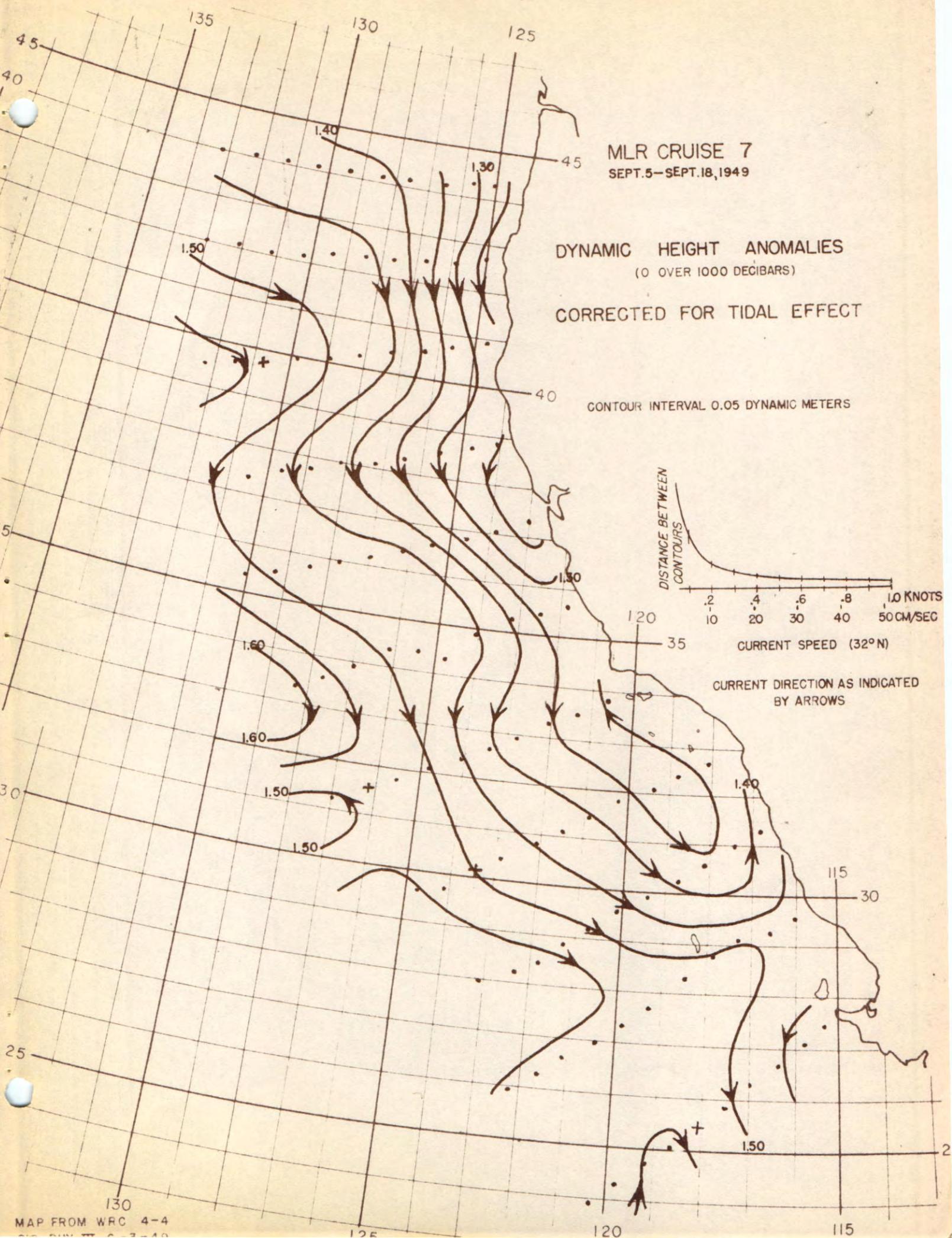
DYNAMIC HEIGHT ANOMALIES
(0 OVER 1000 DECIBARS)

CORRECTED FOR TIDAL EFFECT

CONTOUR INTERVAL 0.05 DYNAMIC METERS



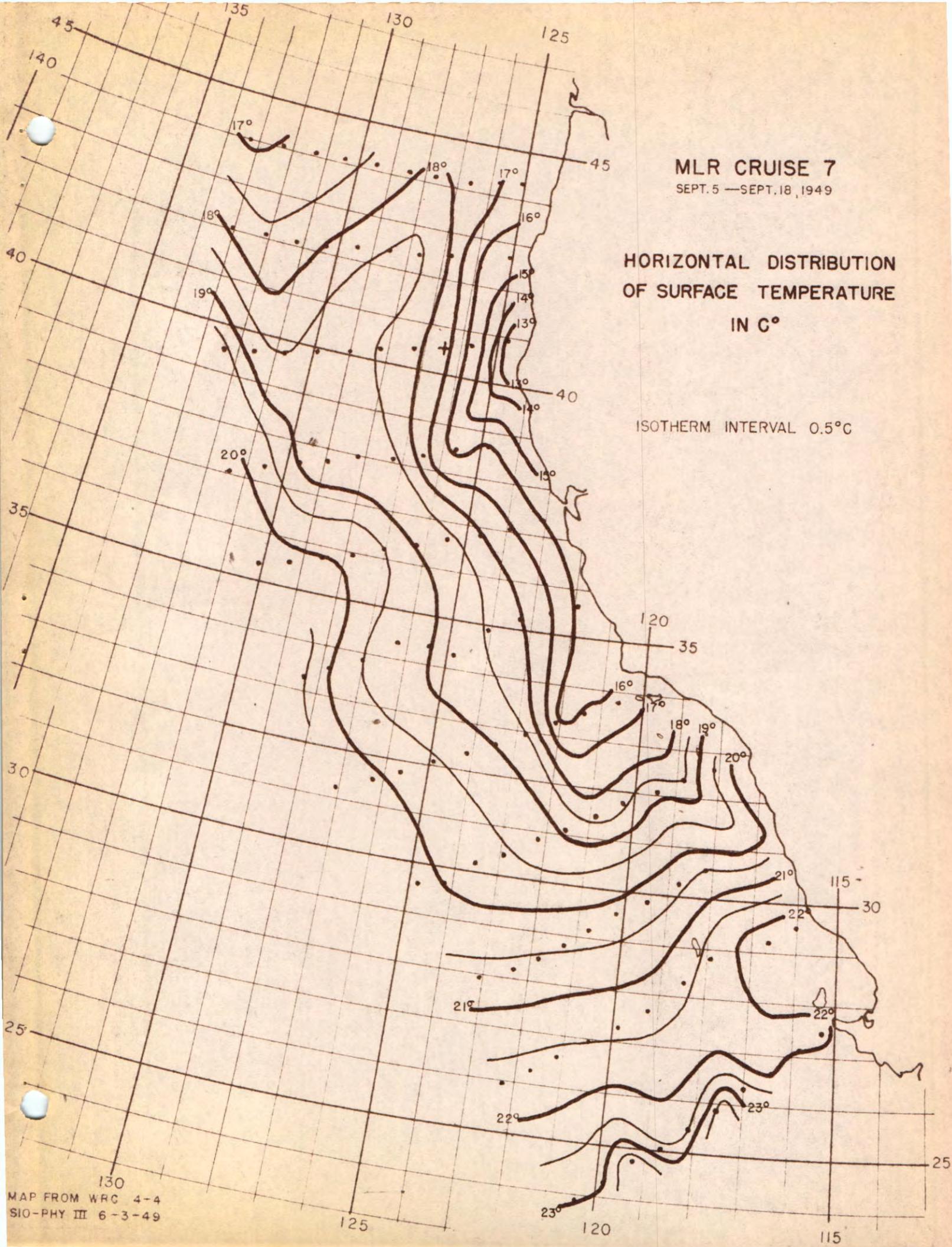
CURRENT DIRECTION AS INDICATED
BY ARROWS



MLR CRUISE 7
SEPT. 5 — SEPT. 18, 1949

HORIZONTAL DISTRIBUTION
OF SURFACE TEMPERATURE
IN C°

ISOTHERM INTERVAL 0.5°C

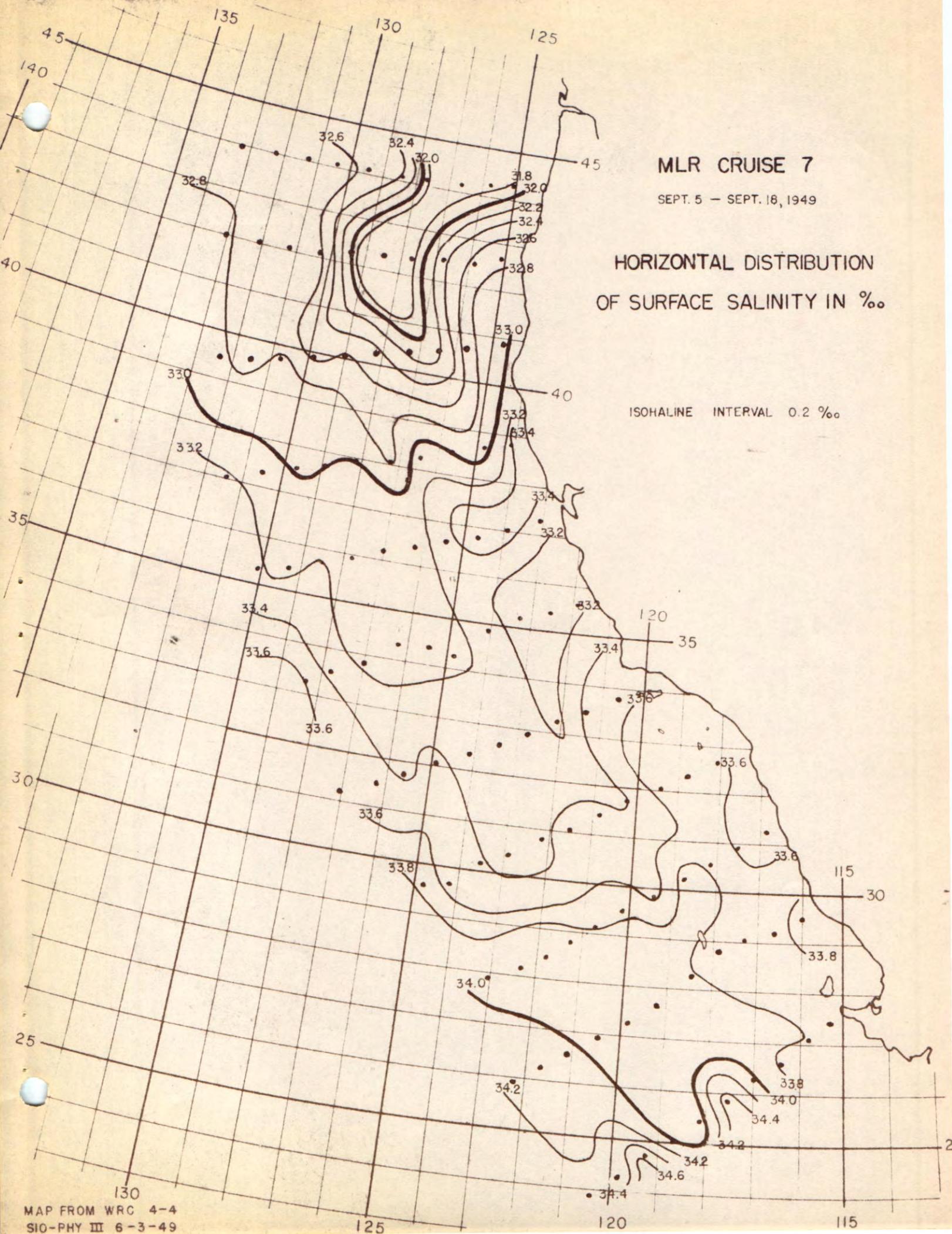


MLR CRUISE 7

SEPT. 5 - SEPT. 18, 1949

HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY IN ‰

ISOHALINE INTERVAL 0.2 ‰



STATION 201 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}24'N$ $125^{\circ}10'W$ September 12, 1949 0333 GCT Wire angle: 12° Sounding: 850 fms. Depth of observation: 1,102 m.
Weather: cloudy Sea: rough Wind: missing, 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	16.50	31.78	23.18	469.9	.0000	6.13	0.28
10	15.91	31.85	23.37	452.5	.0463	6.32	0.35
20	10.35	32.32	24.82	314.0	.0848	6.03	0.54
30	8.45	32.73	25.45	254.8	.1133	5.65	0.88
50	7.86	32.94	25.70	231.1	.1622	5.59	1.49
75	8.07	33.59	26.18	186.2	.2146	3.62	2.12
100	7.88	33.74	26.32	172.8	.2598	2.82	2.39
150	7.58	33.84	26.45	161.9	.344	1.94	2.61
200	7.26	33.90	26.54	153.6	.423	1.75	2.68
250	6.86	33.94	26.62	146.1	.499	1.85	2.62
300	6.41	33.97	26.71	138.4	.571	1.71	2.67
400	5.78	34.07	26.87	124.4	.703	1.10	2.90
500	5.29	34.16	27.00	112.9	.823	0.75	3.04
600	4.87	34.24	27.11	102.9	.932	0.60	3.11
700	4.50	34.30	27.20	94.9	1.031	0.51	3.14
800	4.17	34.34	27.27	89.1	1.124	0.46	3.15
1000	3.63	34.40	27.37	80.2	1.296	0.48	3.14

STATION 202 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}20'N$ $125^{\circ}50'W$ September 12, 1949 0915 GCT Wire angle: 17° Sounding: 2,000 fms. Depth of observation: 1,023 m.
Weather: partly cloudy Sea: very rough Wind: 350° , force 4.

0	17.10	31.76	23.04	484.7	.0000	5.89	0.34
10	17.12	31.78	23.05	483.9	.0486	6.02	0.35
20	12.00	32.21	24.45	350.0	.0905	6.30	0.72
30	10.10	32.55	25.04	293.2	.1228	6.23	1.11
50	8.03	32.76	25.53	247.0	.1771	5.40	1.53
75	8.01	33.25	25.92	210.6	.2346	4.15	1.96
100	7.89	33.60	26.21	183.4	.2842	3.27	2.16
150	7.31	33.79	26.45	161.7	.371	3.28	2.20
200	7.00	33.90	26.57	150.1	.450	2.98	2.30
250	6.62	34.02	26.72	136.9	.522	2.60	2.47
300	6.23	33.99	26.75	134.8	.590	1.46	2.80
400	5.52	34.01	26.85	125.6	.721	0.86	3.18
500	5.05	34.13	27.00	112.2	.841	0.61	3.27
600	4.69	34.27	27.16	98.4	.948	0.45	3.30
700	4.37	34.36	27.26	89.0	1.042	0.38	3.31
800	4.06	34.41	27.33	82.7	1.129	0.42	3.30
1000	3.52	34.45	27.42	75.2	1.289	0.63	3.18

STATION 203 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}17'N$ $126^{\circ}46'W$ September 12, 1949 1554 GCT Wire angle: 24° Sounding: 1,600 fms. Depth of observation: 1,170 m. Weather: partly cloudy Sea: rough Wind: 340° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	A D (dyn.m.)	O₂ (ml/L)	PO₄-P (μg at/L)
0	17.30	31.77	23.00	488.6	.0000	5.45	0.38
10	17.63	31.78	22.92	495.6	.0494	5.08	0.37
20	17.25	31.86	23.07	481.3	.0984	5.75	0.44
30	14.70	32.41	24.06	386.9	.1420	6.00	0.60
50	9.53	32.61	25.19	279.8	.2090	6.09	1.03
75	7.56	32.79	25.62	238.7	.2742	4.90	1.41
100	7.87	33.27	25.96	207.5	.3303	4.39	1.81
150	7.21	33.70	26.39	167.0	.425	3.22	2.20
200	6.93	33.85	26.54	152.9	.505	2.66	2.43
250	6.27	33.91	26.68	140.5	.579	2.62	2.47
300	6.00	33.99	26.78	131.8	.648	2.35	2.65
400	5.54	34.08	26.91	120.7	.775	0.97	3.11
500	5.05	34.12	27.00	112.9	.893	0.63	3.31
600	4.62	34.18	27.09	104.4	1.002	0.48	3.36
700	4.23	34.25	27.19	95.6	1.103	0.39	3.38
800	3.89	34.33	27.29	86.7	1.196	0.35	3.40
1000	3.39	34.42	27.41	75.7	1.360	0.35	3.41

STATION 204 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}14'N$ $127^{\circ}42'W$ September 12, 1949 2237 GCT Wire angle: missing Sounding: 1,600 fms. Depth of observation: 1,199 m. Weather: clear Sea: rough Wind: 350° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	A D (dyn.m.)	O₂ (ml/L)	PO₄-P (μg at/L)
0	18.25	31.78	22.77	509.6	.0000	5.45	0.34
10	18.13	31.82	22.83	504.1	.0509	5.40	0.34
20	17.91	32.30	23.25	464.1	.0995	5.80	0.47
30	14.65	32.50	24.14	379.3	.1418	6.45	0.58
50	11.60	32.61	24.83	314.2	.2115	6.86	0.76
75	8.60	32.59	25.31	268.2	.2847	6.23	1.15
100	7.48	32.82	25.66	235.6	.3481	5.52	1.42
150	7.26	33.65	26.34	171.6	.451	3.86	2.00
200	6.99	33.94	26.61	147.0	.531	2.72	2.31
250	6.58	33.95	26.67	141.6	.604	2.23	2.50
300	6.15	33.96	26.74	136.0	.673	1.81	2.68
400	5.36	34.07	26.92	119.2	.802	1.08	3.01
500	4.86	34.13	27.02	109.9	.918	0.64	3.18
600	4.50	34.17	27.10	103.7	1.025	0.45	3.28
700	4.20	34.24	27.18	96.0	1.126	0.36	3.34
800	3.93	34.30	27.26	89.3	1.220	0.33	3.36
1000	3.45	34.41	27.40	77.2	1.388	0.35	3.36

STATION 205 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}12'N$ $128^{\circ}37'W$ September 13, 1949 0508 GCT Wire angle: 10°
 Sounding: 1,510 fms. Depth of observation: 1,217 m. Weather: cloudy
 Sea: smooth Wind: 030° , 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	17.70	32.52	23.47	442.9	.0000	5.70	0.49
10	17.54	32.50	23.49	441.1	.0444	5.70	0.50
20	17.49	32.58	23.56	434.3	.0883	5.69	0.52
30	17.42	32.63	23.62	429.3	.1317	5.70	0.53
50	12.54	32.68	24.70	325.8	.2076	6.43	0.56
75	9.07	32.70	25.33	266.7	.2820	6.68	1.04
100	7.68	32.72	25.55	245.8	.3465	6.42	1.23
150	7.45	33.23	25.99	205.4	.460	4.94	1.65
200	7.18	33.70	26.39	167.4	.554	4.10	1.92
250	6.75	33.83	26.55	152.8	.635	3.53	2.03
300	6.25	33.89	26.67	142.4	.709	2.87	2.15
400	5.36	33.94	26.82	128.8	.846	1.43	2.77
500	4.83	34.06	26.97	114.9	.969	0.81	2.93
600	4.45	34.18	27.11	102.7	1.078	0.58	3.00
700	4.16	34.28	27.22	92.4	1.177	0.52	3.05
800	3.91	34.35	27.30	85.4	1.267	0.50	3.09
1000	3.44	34.40	27.39	77.9	1.432	0.50	3.08

STATION 206 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}09'N$ $129^{\circ}33'W$ September 13, 1949 1208 GCT Wire angle: 3°
 Sounding: 2,000 fms. Depth of observation: 1,234 m.
 Weather: cloudy Sea: smooth Wind: 250° , force 1.

0	17.83	32.59	23.48	440.7	.0000	5.64	0.46
10	17.48	32.50	23.50	439.7	.0442	5.70	0.47
20	17.49	32.50	23.50	440.1	.0884	5.65	0.47
30	17.39	32.52	23.55	436.6	.1324	5.67	0.49
50	14.74	32.61	24.20	373.8	.2138	6.36	0.56
75	9.57	32.72	25.27	272.9	.2951	6.46	0.97
100	8.40	32.79	25.50	250.4	.3610	6.18	1.14
150	7.74	33.55	26.19	185.7	.471	4.93	1.79
200	7.35	33.78	26.43	163.8	.559	3.46	2.07
250	6.87	33.99	26.66	142.5	.636	2.66	2.29
300	6.38	34.02	26.75	134.4	.706	2.14	2.54
400	5.58	34.02	26.85	125.7	.837	1.42	2.92
500	5.09	34.10	26.98	114.8	.958	1.06	3.04
600	4.67	34.17	27.08	105.6	1.069	0.79	3.10
700	4.32	34.23	27.16	98.1	1.172	0.60	3.21
800	4.03	34.28	27.23	91.9	1.268	0.50	3.30
1000	3.54	34.38	27.36	80.6	1.442	0.43	3.32

STATION 207 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}06'N$ $130^{\circ}29'W$ September 13, 1949 1834 GCT Wire angle: 25° Sounding: 1,810 fms. Depth of observation: 1,104 m. Weather: intermittent slight drizzle Sea: rough Wind: 190° , 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	17.24	32.66	23.68	422.3	.0000	5.60	0.44
10	17.11	32.65	23.71	420.5	.0423	5.28	0.40
20	17.13	32.67	23.72	419.8	.0845	5.60	0.40
30	17.11	32.68	23.74	418.8	.1266	5.80	0.42
50	11.75	32.65	24.83	313.8	.2002	6.08	0.61
75	9.07	32.63	25.28	272.1	.2739	6.13	1.00
100	8.14	32.72	25.49	252.0	.3398	5.63	1.15
150	7.98	33.40	26.04	200.3	.454	4.95	1.47
200	7.42	33.91	26.53	155.0	.543	3.74	1.96
250	6.72	33.86	26.58	150.0	.620	3.15	2.12
300	6.22	33.89	26.67	142.0	.694	2.44	2.30
400	5.33	34.00	26.87	124.0	.828	1.60	2.72
500	4.59	34.03	26.98	114.2	.948	1.13	2.87
600	4.26	34.10	27.07	106.2	1.059	0.76	3.02
700	4.01	34.17	27.15	99.0	1.162	0.51	3.15
800	3.78	34.23	27.22	93.0	1.260	0.40	3.20
1000	3.40	34.33	27.34	82.6	1.437	0.37	3.18

STATION 208 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}03'N$ $131^{\circ}24'W$ September 14, 1949 0133 GCT Wire angle: 15° Sounding: 1,950 fms. Depth of observation: 1,191 m. Weather: intermittent slight drizzle Sea: rough Wind: 200° , force 2.

0	17.43	32.68	23.65	425.1	.0000	5.61	0.44
10	17.20	32.64	23.67	423.1	.0426	4.86	0.52
20	17.20	32.63	23.67	424.2	.0851	4.97	0.51
30	17.16	32.63	23.69	423.4	.1277	5.25	0.53
50	12.65	32.63	24.65	331.5	.2035	6.28	0.70
75	9.28	32.70	25.30	269.9	.2791	5.85	0.97
100	8.15	32.66	25.43	256.9	.3454	5.65	1.30
150	7.06	32.90	25.78	224.7	.467	5.23	1.57
200	6.81	33.55	26.32	173.8	.567	4.60	2.05
250	6.50	33.78	26.55	153.2	.649	3.88	2.22
300	5.87	33.88	26.71	138.4	.723	3.20	2.34
400	5.00	33.93	26.85	125.4	.856	2.11	2.54
500	4.55	33.94	26.91	120.4	.980	1.29	2.78
600	4.19	34.06	27.04	108.3	1.095	0.74	2.97
700	3.91	34.18	27.17	97.1	1.199	0.45	3.03
800	3.67	34.26	27.25	89.3	1.293	0.30	3.07
1000	3.28	34.37	27.38	78.3	1.462	0.40	3.08

STATION 209 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $44^{\circ}01'N$ $132^{\circ}20'W$ September 14, 1949 0813 GCT Wire angle: 20° Sounding: 1,990 fms. Depth of observation: 1,053 m. Weather: partly cloudy Sea: missing Wind: 200° , force 2.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	t (mg/cm 3)	$10^5 \sigma$	ΔD (dyn.m.)	O ₂ (ml/L)	P _{O₂} -P ($^{\circ}$ g at/L)
0	17.25	32.72	23.73	418.0	.0000	5.74	0.43
10	17.09	32.74	23.78	413.3	.0417	5.80	0.51
20	17.11	32.66	23.72	420.0	.0836	5.73	0.51
30	17.08	32.65	23.71	420.4	.1258	5.73	0.52
50	12.60	32.70	24.71	325.6	.2007	6.62	0.74
75	9.22	32.70	25.31	268.9	.2754	6.47	1.05
100	8.22	32.70	25.46	254.6	.3413	6.43	1.16
150	6.82	33.61	26.37	168.8	.448	5.07	1.60
200	6.81	33.88	26.58	149.2	.528	3.74	1.91
250	6.47	34.00	26.73	136.4	.600	2.41	2.41
300	6.06	34.03	26.80	129.6	.667	1.79	2.73
400	5.29	34.03	26.90	121.4	.793	1.13	2.93
500	4.69	34.08	27.00	111.6	.911	0.81	3.06
600	4.25	34.15	27.11	102.6	1.019	0.63	3.15
700	3.91	34.21	27.19	94.9	1.119	0.55	3.19
800	3.66	34.28	27.27	87.8	1.211	0.55	3.19
1000	3.29	34.37	27.38	78.4	1.379	0.56	3.11

STATION 210 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $43^{\circ}58'N$ $133^{\circ}15'W$ September 14, 1949 1613 GCT Wire angle: 5° Sounding: 2,200 fms. Depth of observation: 1,153 m. Weather: cloudy Sea: very rough Wind: 220° , force 4.

0	16.74	32.61	23.76	415.1	.0000	5.69	-
10	16.56	32.64	23.82	403.3	.0414	5.74	-
20	16.56	32.68	23.86	406.1	.0823	5.76	-
30	16.45	32.70	23.90	402.4	.1229	5.82	-
50	11.06	32.73	25.02	296.0	.1930	6.50	-
75	9.04	32.79	25.40	259.8	.2629	6.43	-
100	8.21	32.77	25.52	249.4	.3270	6.34	-
150	7.43	32.90	25.73	229.5	.447	5.96	-
200	6.95	33.79	26.49	157.7	.545	5.15	-
250	6.55	33.84	26.59	149.3	.622	4.00	-
300	5.95	33.86	26.68	140.8	.695	3.39	-
400	4.97	33.94	26.86	124.2	.829	2.58	-
500	4.42	34.02	26.99	112.9	.949	1.90	-
600	4.02	34.09	27.08	104.3	1.058	1.05	-
700	3.73	34.17	27.18	96.0	1.159	0.55	-
800	3.51	34.23	27.25	89.8	1.253	0.46	-
1000	3.18	34.34	27.36	79.5	1.424	0.38	-

STATION 301 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}40'N$ $125^{\circ}15'W$ September 11, 1949 1247, 0938 GCT
 Wire angle: $2^{\circ}, 32'$ Sounding: 1,630 fms. Depth of observation: 1,065, 2,677 m.
 Weather: cloudy Sea: very rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	1055	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (g at/L)
0	15.74	32.68	24.05	387.9	.0000	5.64	0.55
10	15.33	32.99	24.37	356.9	.0374	4.80	0.79
20	13.00	33.18	25.00	297.0	.0702	4.96	1.02
30	12.03	33.24	25.24	275.1	.0990	4.99	1.22
50	11.52	33.31	25.39	261.4	.1529	4.86	1.50
75	9.62	33.59	25.94	209.4	.2121	4.56	1.96
100	8.82	33.78	26.21	183.4	.2615	3.24	2.32
150	8.07	33.91	26.43	163.4	.348	2.05	2.49
200	7.62	33.87	26.46	161.1	.430	2.03	2.46
250	7.25	33.90	26.54	154.2	.510	2.02	2.54
300	6.89	33.96	26.64	145.7	.585	1.80	2.69
400	6.15	34.05	26.81	130.6	.725	1.10	2.98
500	5.79	34.11	26.90	122.8	.852	0.75	3.17
600	5.39	34.26	27.07	107.9	.969	0.53	3.22
700	4.88	34.36	27.20	95.0	1.071	0.40	3.27
800	4.42	34.41	27.30	86.9	1.163	0.38	3.28
1000	3.64	34.44	27.40	77.4	1.329	0.49	3.29
1200	3.13	34.48	27.48	69.8	1.478	0.63	3.23
1500	2.60	34.51	27.55	63.5	1.681	0.93	3.08
2000	2.01	34.52	27.61	58.1	1.989	1.65	2.95
2500	1.77	(34.52)	(27.63)	(56.7)	(2.281)	--	--

STATION 302 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}35'N$ $125^{\circ}54'W$ September 11, 1949 0407 GCT Wire
 angle: 21° Sounding: 1,420 fms. Depth of observation: 1,013 m.
 Weather: overcast Sea: smooth Wind: 350° , force 1.

0	15.88	32.61	23.95	396.0	.0000	6.14	0.50
10	16.07	32.63	23.93	399.1	.0399	5.60	0.52
20	15.32	32.87	24.28	365.8	.0783	5.69	0.74
30	10.64	32.84	25.18	280.7	.1108	5.72	0.97
50	8.50	32.82	25.51	249.2	.1640	5.58	1.26
75	8.23	33.50	26.08	195.2	.2199	5.05	1.57
100	8.60	33.60	26.11	193.5	.2688	3.58	2.00
150	7.61	33.76	26.38	169.1	.360	2.31	2.19
200	7.31	34.01	26.62	146.2	.439	1.95	2.49
250	6.85	34.04	26.70	138.6	.511	1.69	2.62
300	6.19	34.04	26.79	130.5	.578	1.36	2.77
400	5.60	34.10	26.91	120.1	.705	0.75	3.02
500	5.22	34.21	27.05	108.3	.820	0.51	3.16
600	4.85	34.27	27.14	100.5	.925	0.45	3.17
700	4.48	34.31	27.21	93.9	1.023	0.40	3.17
800	4.12	34.33	27.26	89.3	1.116	0.40	3.16
1000	3.60	34.29	27.23	88.0	1.295	0.68	2.98

STATION 303 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}30'N$ $126^{\circ}48'W$ September 10, 1949 2103 GCT Wire
 angle: 2° Sounding: 1,900 fms. Depth of observation: 1,227 m.
 Weather: cloudy Sea: slight 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	17.91	32.45	23.32	452.7	.0000	5.91	0.48
10	16.08	32.77	24.04	388.9	.0422	6.19	0.53
20	14.62	33.04	24.57	338.9	.0788	6.15	0.80
30	10.65	33.36	25.58	242.3	.1080	5.78	1.36
50	9.15	33.55	25.98	204.6	.1529	4.22	2.06
75	8.28	33.66	26.20	184.4	.2018	3.77	2.13
100	7.77	33.81	26.40	165.9	.2458	3.11	2.37
150	7.28	33.87	26.51	155.3	.327	2.56	2.37
200	6.72	33.93	26.64	144.2	.402	2.09	2.65
250	6.23	33.96	26.72	135.5	.472	1.71	2.91
300	5.85	34.01	26.81	128.5	.539	1.40	2.92
400	5.33	34.09	26.94	117.5	.663	0.95	3.20
500	4.83	34.16	27.05	107.4	.776	0.66	3.29
600	4.52	34.23	27.14	99.6	.881	0.54	3.34
700	4.26	34.28	27.21	93.7	.978	0.50	3.38
800	4.00	34.33	27.28	87.9	1.070	0.49	3.40
1000	3.51	34.40	27.38	78.3	1.239	0.55	3.41

STATION 304 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}25'N$ $127^{\circ}41'W$ September 10, 1949 1448 GCT Wire
 angle: 4° Sounding: 1,600 fms. Depth of observation: 1,156 m.
 Weather: overcast Sea: smooth Wind: 320° , 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	18.95	31.71	22.55	531.2	.0000	5.69	0.35
10	18.18	31.64	22.68	522.9	.0529	5.65	0.34
20	17.84	31.64	22.77	510.7	.1048	5.74	0.36
30	16.85	31.65	23.01	488.1	.1549	5.85	0.40
50	10.69	32.52	24.92	305.1	.2346	6.74	0.88
75	8.15	32.56	25.35	263.6	.3061	6.50	1.23
100	8.25	33.04	25.72	231.0	.3684	5.05	1.75
150	7.91	33.68	26.27	178.3	.471	3.07	2.34
200	7.65	33.84	26.44	163.6	.557	2.43	2.63
250	7.18	33.94	26.58	150.3	.636	2.02	2.77
300	6.68	34.03	26.72	137.6	.709	1.58	2.85
400	5.95	34.11	26.88	123.6	.841	1.10	2.98
500	5.21	34.12	26.98	114.9	.961	1.09	3.19
600	4.85	34.18	27.07	107.2	1.073	1.06	3.36
700	4.60	34.26	27.16	99.2	1.177	0.64	3.44
800	4.31	34.31	27.23	93.1	1.274	0.39	3.46
1000	3.66	34.35	27.33	84.2	1.453	0.45	3.45

STATION 305 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}21'N$ $128^{\circ}35'W$ September 10, 1949 0758 GCT Wire
 angle: 3° Sounding: 1,750 fms. Depth of observation: 1,191 m.
 Weather: cloudy Sea: moderate Wind: 350° , 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 _{O₂} -P (μ g at/L)
0	18.54	31.72	22.66	520.1	.0000	5.70	0.39
10	18.36	31.73	22.71	525.3	.0525	5.31	0.38
20	18.12	31.76	22.80	508.6	.1044	5.35	0.39
30	17.85	31.92	22.98	491.1	.1546	5.62	0.42
50	12.67	32.68	24.69	340.2	.2381	6.35	0.65
75	9.35	32.81	25.37	263.0	.3139	5.93	1.24
100	8.60	33.10	25.72	230.4	.3760	5.40	1.51
150	7.68	33.59	26.24	181.7	.480	3.85	2.02
200	6.93	33.88	26.57	150.8	.563	3.12	2.31
250	6.32	33.90	26.67	142.0	.637	2.65	2.50
300	5.93	33.94	26.75	134.7	.707	2.19	2.71
400	5.66	34.06	26.87	123.7	.837	0.99	3.18
500	5.33	34.10	26.95	117.8	.959	0.79	3.33
600	5.00	34.13	27.01	112.6	1.075	0.65	3.36
700	4.65	34.17	27.08	106.5	1.186	0.53	3.38
800	4.31	34.21	27.15	100.5	1.290	0.45	3.38
1000	3.66	34.27	27.26	90.1	1.483	0.45	3.38

STATION 306 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}16'N$ $129^{\circ}29'W$ September 10, 1949 0128 GCT Wire
 angle: 4° Sounding: 1,800 fms. Depth of observation: 1,228 m.
 Weather: missing Sea: moderate Wind: 360° , force 2.

0	18.30	32.03	22.95	492.5	.0000	5.40	0.39
10	18.61	31.99	22.85	503.1	.0500	5.21	0.43
20	18.33	32.20	23.06	481.5	.0994	4.48	0.45
30	17.93	32.51	23.40	449.6	.1462	4.43	0.47
50	11.66	32.70	24.89	308.5	.2223	5.32	0.67
75	9.02	32.69	25.33	266.6	.2946	5.79	1.05
100	7.91	32.72	25.52	249.0	.3595	5.52	1.21
150	7.51	33.22	25.97	207.0	.4743	4.63	1.63
200	7.64	33.79	26.40	167.2	.5685	2.89	2.12
250	7.16	33.92	26.57	151.5	.6487	2.40	2.39
300	6.68	33.99	26.69	140.5	.722	1.98	2.59
400	5.75	34.05	26.86	125.6	.856	1.23	2.93
500	5.00	34.07	26.96	116.1	.978	0.84	3.08
600	4.56	34.09	27.03	110.3	1.092	0.60	3.18
700	4.34	34.18	27.12	102.0	1.200	0.45	3.25
800	4.12	34.29	27.23	92.2	1.298	0.40	3.31
1000	3.63	34.39	27.36	80.9	1.473	0.43	3.31

STATION 307 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}11'N$ $130^{\circ}22'W$ September 9, 1949 1910 GCT Wire
 angle: 20° Sounding: 1,900 fms. Depth of observation: 1,194 m.
 Weather: overcast Sea: moderate Wind: 340° , force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 S$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (μg at/L)
0	18.23	32.70	23.48	442.0	.0000	5.60	0.46
10	17.88	32.70	23.56	434.3	.0440	5.61	0.46
20	17.81	32.68	23.57	434.1	.0876	5.61	0.49
30	17.76	32.64	23.54	436.3	.1313	5.63	0.54
50	13.26	32.61	24.51	344.3	.2097	6.95	0.72
75	9.29	32.61	25.23	276.4	.2877	6.64	1.04
100	8.21	32.56	25.35	265.1	.3559	6.42	1.18
150	7.68	33.02	25.79	224.0	.479	5.56	1.48
200	7.18	33.63	26.34	172.7	.579	4.82	1.72
250	6.85	33.79	26.51	157.2	.662	3.95	1.96
300	6.22	33.87	26.65	143.7	.738	3.12	2.21
400	5.20	33.94	26.84	127.0	.874	2.02	2.74
500	4.68	33.99	26.94	118.0	.998	1.59	3.00
600	4.35	34.08	27.04	108.7	1.112	1.18	3.12
700	4.08	34.17	27.14	99.8	1.217	0.78	3.18
800	3.84	34.25	27.23	92.1	1.314	0.48	3.21
1000	3.40	34.38	27.38	78.9	1.487	0.44	3.27

STATION 308 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}06'N$ $131^{\circ}16'W$ September 9, 1949 1205 GCT Wire
 angle: 5° Sounding: 2,000 fms. Depth of observation: 1,218 m.
 Weather: cloudy Sea: smooth Wind: 340° , force 1.

0	17.66	32.63	23.57	436.2	.0000	5.69	0.58
10	17.52	32.61	23.58	432.5	.0436	5.70	0.57
20	17.40	32.61	23.60	430.0	.0869	5.71	0.59
30	17.28	32.61	23.63	427.7	.1300	5.77	0.65
50	11.48	32.63	24.86	310.4	.2042	6.65	0.81
75	9.67	32.72	25.25	274.9	.2777	6.25	0.97
100	8.58	32.70	25.41	259.8	.3450	6.35	1.20
150	7.29	32.91	25.76	226.9	.467	5.77	1.53
200	7.07	33.56	26.30	176.5	.569	4.85	1.78
250	6.53	33.81	26.57	151.3	.652	3.91	1.98
300	6.02	33.87	26.68	141.1	.725	3.05	2.24
400	5.14	33.92	26.83	127.8	.861	1.71	2.94
500	4.74	34.04	26.97	115.2	.983	1.20	3.22
600	4.40	34.12	27.07	106.3	1.095	0.90	3.34
700	4.10	34.18	27.15	99.3	1.199	0.63	3.38
800	3.82	34.21	27.20	94.8	1.297	0.46	3.39
1000	3.37	34.29	27.31	85.3	1.479	0.40	3.40

STATION 309 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $42^{\circ}02'N$ $132^{\circ}10'W$ September 9, 1949 0453 GCT Wire angle: 18° Sounding: 2,210 fms. Depth of observation: 1,150 m. Weather: cloudy Sea: moderate Wind: 330° , force 2.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	t (mg/cm 3)	10^{55}	ΔD (dyn.m.)	O ₂ (ml/L)	Po ₄ -P (μ g at/L)
0	17.63	32.73	23.65	426.1	.0000	5.30	0.65
10	17.46	32.57	23.56	434.0	.0482	5.39	0.65
20	17.41	32.68	23.66	417.9	.0910	5.36	0.66
30	16.65	32.71	23.86	406.3	.1323	5.41	0.65
50	12.40	32.70	24.75	322.1	.2055	6.41	0.71
75	10.20	32.75	25.19	280.4	.2813	5.87	0.96
100	8.20	32.71	25.47	253.7	.3485	5.65	1.15
150	7.39	32.75	25.62	240.2	.473	6.17	1.40
200	7.03	33.50	26.26	180.3	.579	4.75	1.64
250	6.76	33.82	26.54	153.7	.663	3.62	1.91
300	6.28	33.90	26.67	142.0	.737	2.99	2.21
400	5.38	33.94	26.82	129.1	.874	2.02	2.65
500	4.82	34.01	26.93	118.3	.999	1.36	2.88
600	4.40	34.10	27.05	107.8	1.113	0.80	3.02
700	4.10	34.18	27.15	99.3	1.217	0.46	3.13
800	3.84	34.26	27.24	91.4	1.314	0.33	3.22
1000	3.40	34.32	27.33	83.4	1.490	0.40	3.22

STATION 310 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $41^{\circ}57'N$ $133^{\circ}06'W$ September 8, 1949 2212, 1925 GCT Wire angle: 11° , 16° Sounding: 2,200 fms. Depth of observation: 1,226, 2,934 m. Weather: cloudy Sea: moderate Wind: 290° , force 2.

0	17.94	32.81	23.63	427.4	.0000	5.53	0.60
10	17.77	32.79	23.66	424.9	.0428	5.38	0.60
20	17.78	32.80	23.66	424.9	.0854	5.40	0.59
30	17.72	32.80	23.68	424.0	.1281	5.55	0.59
50	11.60	32.75	24.94	303.9	.2012	5.75	0.80
75	9.77	32.76	25.27	273.4	.2738	5.73	1.03
100	8.86	32.78	25.42	257.9	.3406	5.70	1.13
150	7.35	32.77	25.64	238.3	.466	5.50	1.40
200	7.15	33.59	26.31	175.3	.570	4.75	1.70
250	7.16	33.84	26.51	157.5	.653	3.92	1.92
300	7.00	33.89	26.57	152.4	.732	3.40	2.11
400	5.76	33.92	26.75	135.3	.877	2.55	2.63
500	4.74	34.01	26.94	117.4	1.004	1.33	3.07
600	4.28	34.10	27.06	106.5	1.117	0.73	3.22
700	4.06	34.19	27.16	98.0	1.220	0.48	3.31
800	3.85	34.28	27.25	90.0	1.315	0.37	3.37
1000	3.42	34.37	27.37	79.9	1.487	0.35	3.37
1200	3.00	34.43	27.45	72.1	1.641	0.48	3.24
1500	2.46	34.48	27.56	64.7	1.849	0.81	3.18
2000	1.94	34.55	27.64	55.0	2.152	1.66	2.98
2500	1.76	34.61	27.70	50.1	2.420	2.14	2.80

STATION 401 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°50'N 124°47'W September 5, 1949 0400 GCT Wire
 angle: 8° Sounding: 1,000 fms. Depth of observation: 1,267 m.
 Weather: low fog Sea: rough Wind: 140°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	D_2 (ml/L)	P_{O_2-P} (μg at/L)
0	12.90	32.92	24.82	313.6	.0000	6.27	0.83
10	12.35	32.86	24.88	308.3	.0312	5.31	0.92
20	9.26	32.82	25.40	259.7	.0597	5.53	1.17
30	9.11	32.81	25.41	258.5	.0857	5.76	1.39
50	8.94	33.60	26.05	197.9	.1316	5.00	1.75
75	8.77	33.78	26.22	182.2	.1794	3.48	2.07
100	8.57	33.84	26.30	175.3	.2244	2.61	2.22
150	7.98	33.92	26.45	161.5	.309	2.21	2.30
200	7.46	34.03	26.61	146.6	.387	1.85	2.39
250	7.06	34.05	26.69	140.6	.459	1.55	2.52
300	6.69	34.05	26.74	136.3	.529	1.28	2.64
400	6.07	34.18	26.92	119.8	.658	0.87	2.78
500	5.46	34.21	27.02	111.3	.774	0.67	2.89
600	4.99	34.21	27.07	106.6	.884	0.55	2.98
700	4.68	34.25	27.14	100.8	.989	0.48	3.02
800	4.43	34.32	27.22	93.6	1.087	0.42	3.02
1000	3.85	34.42	27.36	81.4	1.264	0.43	3.02

STATION 402 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 40°41'N 125°41'W September 5, 1949 1115 GCT Wire
 angle: 0° Sounding: 1,600 fms. Depth of observation: 1,295 m.
 Weather: cloudy Sea: rough Wind: 140°, force 2.

0	15.00	32.79	24.29	364.5	.0000	6.05	0.79
10	14.92	32.79	24.31	363.0	.0365	5.98	0.79
20	14.70	32.94	24.47	347.9	.0722	6.01	0.79
30	14.47	32.93	24.51	344.2	.1070	6.15	0.80
50	12.45	32.72	24.75	321.5	.1738	6.38	0.85
75	9.55	32.76	25.30	269.6	.2482	6.05	1.19
100	8.65	33.21	25.79	222.9	.3101	4.83	1.64
150	7.63	33.66	26.30	176.0	.411	3.25	2.20
200	7.04	33.91	26.58	150.2	.493	2.70	2.47
250	6.69	33.97	26.67	141.5	.566	2.07	2.61
300	6.35	33.99	26.73	136.3	.636	1.40	2.75
400	5.67	34.12	26.92	119.5	.765	0.90	3.05
500	5.05	34.15	27.02	110.7	.881	0.56	3.17
600	4.61	34.21	27.12	102.1	.989	0.35	3.23
700	4.36	34.27	27.18	95.5	1.088	0.34	3.27
800	4.12	34.33	27.26	89.3	1.182	0.39	3.30
1000	3.65	34.38	27.35	82.0	1.355	0.56	3.31

STATION 403 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}32'N$ $126^{\circ}32'W$ September 5, 1949 2338 GCT Wire angle: 0° Sounding: 1,710 fms. Depth of observation: 1,224 m. Weather: overcast Sea: very rough Wind: 140° , 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 _{O₂-P} (μ g at/L)
0	18.10	32.18	23.11	476.7	.0000	5.17	0.48
10	17.63	32.23	23.27	462.9	.0472	5.58	0.47
20	17.61	32.21	23.26	464.1	.0937	5.63	0.47
30	17.35	32.18	23.30	460.4	.1401	5.67	0.49
50	14.36	32.80	24.44	351.9	.2218	6.36	0.62
75	9.85	32.88	25.34	265.6	.2994	5.91	1.19
100	8.44	33.06	25.71	231.2	.3619	5.30	1.55
150	8.04	33.59	26.18	187.0	.467	3.90	2.09
200	7.66	33.93	26.51	157.0	.554	2.85	2.39
250	6.90	34.02	26.68	140.7	.629	2.29	2.57
300	6.42	34.04	26.76	133.6	.698	1.87	2.74
400	5.77	34.04	26.84	126.6	.829	1.13	3.08
500	5.08	34.14	27.01	111.8	.949	0.57	3.23
600	4.65	34.23	27.13	101.1	1.057	0.37	3.31
700	4.36	34.27	27.19	95.5	1.156	0.50	3.38
800	4.07	34.31	27.25	90.2	1.250	0.65	3.42
1000	3.52	34.39	27.37	79.8	1.421	0.70	3.44

STATION 404 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}23'N$ $127^{\circ}22'W$ September 6, 1949 0656 GCT Wire angle: 0° Sounding: 1,120 fms. Depth of observation: 1,316 m. Weather: overcast Sea: very rough Wind: 140° , force 1.

0	18.05	32.18	23.13	475.6	.0000	5.30	0.38
10	17.57	32.16	23.22	466.4	.0473	5.23	0.41
20	17.52	32.17	23.25	464.7	.0940	5.18	0.40
30	17.30	32.21	23.33	457.3	.1403	5.15	0.39
50	14.20	32.45	23.99	374.4	.2239	5.78	0.54
75	10.70	32.78	25.12	286.9	.3070	5.76	0.90
100	8.40	32.89	25.50	250.7	.3747	5.40	1.31
150	8.20	33.50	26.09	195.9	.487	3.44	2.03
200	7.85	33.93	26.48	159.7	.577	1.94	2.28
250	6.61	33.93	26.65	143.5	.653	1.86	2.40
300	6.08	33.87	26.67	141.7	.725	1.94	2.50
400	5.51	34.02	26.86	124.8	.859	1.12	2.83
500	5.01	34.12	27.00	112.5	.979	0.75	3.06
600	4.62	34.18	27.09	104.5	1.088	0.64	3.18
700	4.28	34.26	27.19	95.3	1.189	0.55	3.19
800	4.00	34.34	27.28	87.1	1.281	0.50	3.19
1000	3.54	34.47	27.43	74.1	1.444	0.44	3.20

STATION 405 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}15'N$ $128^{\circ}14'W$ September 6, 1949 1400 GCT Wire
 angle: 3° Sounding: 2,200 fms. Depth of observation: 1,278 m.
 Weather: overcast Sea: missing Wind: 240° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	Δ_D (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (µg at/L)
0	18.44	32.56	23.32	457.1	.0000	5.58	0.52
10	18.15	32.60	23.42	447.7	.0454	5.56	0.49
20	17.75	32.64	23.54	435.9	.0898	5.54	0.50
30	17.10	32.67	23.73	419.3	.1327	5.55	0.53
50	13.80	32.74	24.51	345.3	.2096	6.53	0.61
75	10.95	32.79	25.09	290.3	.2894	6.50	0.85
100	9.56	32.79	25.32	268.1	.3597	5.52	1.03
150	8.51	33.27	25.86	217.6	.482	3.10	1.56
200	7.98	33.73	26.30	176.5	.581	2.38	2.43
250	7.62	33.92	26.50	158.0	.665	1.95	2.66
300	7.25	34.01	26.63	146.8	.742	1.55	2.79
400	6.35	34.10	26.82	129.5	.881	0.97	3.11
500	5.47	34.15	26.97	115.8	1.005	0.77	3.32
600	4.84	34.22	27.10	104.2	1.116	0.75	3.39
700	4.59	34.29	27.18	96.9	1.218	0.62	3.41
800	4.39	34.36	27.26	90.2	1.312	0.48	3.42
1000	3.87	34.44	27.38	80.0	1.484	0.45	3.42

STATION 406 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $40^{\circ}05'N$ $129^{\circ}04'W$ September 6, 1949 2020 GCT Wire
 angle: 5° Sounding: 2,500 fms. Depth of observation: 1,239 m.
 Weather: cloudy Sea: rough Wind: calm.

0	18.70	32.63	23.31	458.2	.0000	5.50	0.50
10	18.45	32.63	23.37	452.6	.0457	5.51	0.51
20	18.20	32.75	23.52	438.2	.0904	5.55	0.53
30	17.90	32.78	23.62	429.5	.1340	5.73	0.55
50	14.50	32.81	24.41	354.2	.2128	6.30	0.61
75	11.60	32.81	24.98	300.1	.2950	6.11	1.05
100	9.80	32.97	25.42	258.5	.3653	5.81	1.31
150	8.56	33.57	26.09	196.0	.480	4.24	1.94
200	8.45	33.86	26.33	173.7	.573	2.68	2.43
250	7.75	33.94	26.50	158.5	.656	2.30	2.55
300	7.15	33.98	26.62	147.7	.733	1.97	2.70
400	6.50	34.07	26.78	133.6	.875	1.40	3.00
500	5.62	34.08	26.89	123.0	1.005	1.02	3.18
600	4.62	34.12	27.04	108.9	1.122	0.71	3.30
700	4.31	34.19	27.13	101.0	1.228	0.50	3.38
800	4.08	34.27	27.22	93.2	1.326	0.38	3.43
1000	3.55	34.41	27.39	78.5	1.499	0.40	3.49

STATION 407 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}56'N$ $129^{\circ}55'W$ September 7, 1949 0257 GCT Wire angle: 0° Sounding: 2,300 fms. Depth of observation: 1,289m. Weather: overcast Sea: very rough Wind: 020° , force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	Δ_D (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (μg at/L)
0	18.90	32.35	23.04	483.3	.0000	5.23	0.46
10	18.60	32.40	23.16	472.9	.0480	5.14	0.47
20	18.51	32.46	23.22	466.6	.0952	5.15	0.49
30	18.10	32.54	23.38	451.4	.1412	5.20	0.51
50	14.45	32.95	24.53	342.8	.2211	5.31	0.66
75	10.70	32.84	25.17	282.4	.2996	5.22	1.09
100	9.67	33.05	25.51	250.6	.3667	5.12	1.36
150	8.63	33.50	26.02	202.3	.481	3.61	1.99
200	8.30	33.84	26.34	172.9	.575	2.53	2.41
250	7.62	33.94	26.52	156.5	.658	1.99	2.50
300	7.06	34.01	26.65	144.2	.734	1.62	2.61
400	6.24	34.09	26.82	128.9	.871	1.06	2.94
500	5.72	34.15	26.94	119.2	.996	0.75	3.18
600	5.24	34.19	27.03	111.3	1.113	0.55	3.28
700	4.78	34.24	27.12	102.8	1.221	0.45	3.30
800	4.38	34.29	27.21	95.2	1.321	0.38	3.32
1000	3.68	34.39	27.36	81.4	1.500	0.37	3.35

STATION 408 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}47'N$ $130^{\circ}46'W$ September 7, 1949 1006 GCT Wire angle: 0° Sounding: 2,460 fms. Depth of observation: 1,293 m. Weather: precipitation in last hour Sea: moderate Wind: 020° , force 1.

0	18.45	32.83	23.52	437.7	.0000	5.85	0.50
10	18.29	32.84	23.57	433.6	.0437	5.85	0.52
20	18.28	32.84	23.57	433.6	.0873	5.85	0.52
30	18.15	32.83	23.60	431.5	.1307	5.85	0.53
50	12.50	32.83	24.83	314.1	.2056	5.87	0.58
75	10.21	32.79	25.21	278.0	.2801	5.95	0.84
100	8.90	32.78	25.42	258.7	.3476	5.43	1.20
150	7.80	33.03	25.78	225.0	.469	4.74	1.45
200	7.43	33.75	26.40	167.2	.568	4.05	1.80
250	6.93	33.85	26.54	153.9	.649	3.40	2.08
300	6.42	33.91	26.66	143.2	.724	2.76	2.31
400	5.47	33.97	26.83	127.3	.860	1.83	2.75
500	4.79	34.07	26.99	113.5	.981	1.57	3.08
600	4.37	34.18	27.12	101.4	1.090	1.50	3.24
700	4.06	34.26	27.21	92.8	1.188	1.28	3.32
800	3.82	34.32	27.29	86.6	1.278	0.80	3.36
1000	3.37	34.44	27.43	74.1	1.441	0.40	3.38

STATION 409 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}38'N$ $131^{\circ}36'W$ September 7, 1949 1720 GCT Wire
 angle: 3° Sounding: 2,440 fms. Depth of observation: 1,169 m.
 Weather: cloudy Sea: calm Wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	Δp (dyn.m.)	ρ_2 (ml/L)	$\rho_{44.5}^{\text{std}}$ (kg at 27)
0	18.50	32.65	23.37	452.1	.0000	5.57	0.53
10	18.25	32.65	23.43	446.5	.0451	5.70	0.56
20	18.10	32.66	23.48	442.3	.0897	5.65	0.60
30	17.70	32.69	23.59	431.3	.1336	5.59	0.62
50	12.40	32.65	24.70	325.5	.2096	5.86	0.54
75	10.50	32.68	25.07	290.8	.2871	6.41	0.87
100	9.20	32.66	25.28	272.1	.3579	6.26	1.09
150	8.73	32.89	25.53	248.9	.489	5.75	1.35
200	7.82	33.66	26.27	179.3	.597	4.22	1.95
250	7.21	33.83	26.49	159.0	.682	3.26	2.18
300	6.64	33.91	26.63	146.0	.759	2.57	2.35
400	5.72	33.87	26.72	138.6	.902	1.58	2.70
500	5.15	33.95	26.85	126.7	1.036	1.00	3.08
600	4.71	34.08	27.00	112.9	1.157	0.61	3.37
700	4.37	34.20	27.13	100.0	1.264	0.42	3.47
800	4.09	34.28	27.23	92.6	1.362	0.35	3.50
1000	3.60	34.37	27.35	82.0	1.538	0.31	3.51

STATION 410 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: $39^{\circ}29'N$ $132^{\circ}27'W$ September 7, 1949 0015 GCT Wire
 angle: 13° Sounding: 2,300 fms. Depth of observation: 1,173 m.
 Weather: cloudy Sea: calm Wind: calm.

0	19.70	32.86	23.23	465.7	.0000	5.54	0.43
10	18.80	32.83	23.44	446.1	.0458	5.53	0.48
20	18.75	32.80	23.42	447.7	.0906	5.36	0.46
30	18.35	32.78	23.51	439.8	.1352	5.38	0.46
50	15.50	32.77	24.17	377.6	.2173	6.17	0.47
75	12.45	32.75	24.78	319.8	.3050	6.50	0.51
100	10.95	32.88	25.16	284.1	.3810	6.15	0.61
150	9.12	33.13	25.66	236.9	.512	5.09	1.32
200	7.96	33.60	26.20	185.8	.618	4.12	1.85
250	7.33	33.75	26.41	166.5	.707	3.47	2.10
300	6.75	33.83	26.55	153.5	.788	2.85	2.36
400	5.69	33.86	26.71	138.9	.935	1.70	2.87
500	5.12	33.94	26.85	127.1	1.069	0.86	3.16
600	4.73	34.09	27.01	112.4	1.190	0.56	3.29
700	4.40	34.18	27.11	102.7	1.299	0.40	3.34
800	4.10	34.24	27.20	95.6	1.399	0.35	3.36
1000	3.55	34.30	27.30	86.7	1.583	0.46	3.34

STATION 501 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ} 50' N$ $124^{\circ} 05' W$ September 6, 1949 0214 GCT Wire angle: 9°
 Sounding: missing Depth of observation: 1,173 m. Weather: cloudy
 Sea: moderate Wind: 120° , 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 _{O₂} -P (mg at/L)
0	15.00	33.42	24.78	318.4	.0000	5.79	0.94
10	14.65	33.42	24.85	311.5	.0316	5.85	0.94
20	13.95	33.40	24.98	299.3	.0623	5.96	1.02
30	12.45	33.40	25.28	270.9	.0909	5.97	1.15
50	10.55	33.41	25.64	237.3	.1420	5.55	1.44
75	9.20	33.59	26.00	202.9	.1973	4.06	1.84
100	8.78	33.75	26.20	185.0	.2461	3.44	2.03
150	8.08	33.97	26.47	159.4	.333	2.29	2.25
200	7.50	34.03	26.61	147.3	.410	2.00	2.32
250	7.07	34.06	26.69	140.0	.482	1.80	2.45
300	6.69	34.10	26.77	132.6	.551	1.41	2.62
400	6.00	34.18	26.93	119.1	.678	0.85	2.86
500	5.41	34.24	27.05	108.6	.793	0.60	2.99
600	4.99	34.30	27.15	100.0	.898	0.54	3.06
700	4.70	34.35	27.22	93.7	.996	0.55	3.09
800	4.41	34.39	27.28	88.2	1.088	0.55	3.11
1000	3.87	34.46	27.39	78.7	1.256	0.60	3.10

STATION 502 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ} 39' N$ $124^{\circ} 54' W$ September 6, 1949 1058, 0855 GCT Wire
 angle: 9° , 12° Sounding: missing Depth of observation: 1,173, 2,796 m.
 Weather: overcast Sea: slight Wind: calm.

0	16.20	32.90	24.10	381.7	.0000	5.85	0.66
10	14.25	33.04	24.64	331.3	.0358	6.30	0.74
20	13.39	33.03	24.81	315.5	.0683	6.23	0.82
30	12.30	33.01	25.01	296.7	.0990	6.00	0.95
50	10.15	33.21	25.55	245.7	.1535	5.60	1.27
75	9.52	33.55	25.92	210.8	.2109	4.64	1.72
100	8.98	33.71	26.13	191.1	.2614	3.57	2.06
150	8.08	33.95	26.46	160.8	.350	2.54	2.14
200	7.58	34.01	26.58	149.9	.428	2.33	2.24
250	7.07	34.06	26.69	140.0	.501	2.08	2.37
300	6.57	34.10	26.79	131.1	.570	1.70	2.53
400	5.80	34.13	26.91	120.3	.696	0.98	2.83
500	5.40	34.22	27.03	109.9	.812	0.54	3.03
600	5.06	34.30	27.14	100.7	.919	0.43	3.10
700	4.69	34.36	27.23	92.8	1.016	0.47	3.09
800	4.35	34.41	27.30	86.0	1.107	0.51	3.08
1000	3.79	34.50	27.43	74.6	1.269	0.60	3.06
1200	3.29	34.54	27.51	67.3	1.413	-	-
1500	2.68	34.61	27.62	57.1	1.602	-	-
2000	2.01	34.65	27.71	43.6	1.870	-	-
2500	1.77	34.64	27.72	48.1	2.116	-	-

STATION 503 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ}28'N$ $125^{\circ}43'W$ September 6, 1949 1912 GCT Wire angle: 11°
 Sounding: missing Depth of observation: 1,178 m. Weather: rain
 Sea: moderate Wind: 160° , 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)	$P_{O_2 - P}$ (mg at/L)
0	15.20	32.97	24.39	355.4	.0000	5.96	0.86
10	13.32	33.24	24.99	293.4	.0328	5.95	1.02
20	12.40	33.33	25.24	275.1	.0616	5.92	1.17
30	11.75	33.36	25.38	261.2	.0885	5.80	1.29
50	10.64	33.41	25.62	238.8	.1388	4.58	1.50
75	9.13	33.45	25.91	212.2	.1955	4.02	1.74
100	8.47	33.71	26.21	183.5	.2452	3.35	2.06
150	8.00	33.79	26.35	171.5	.335	2.40	2.22
200	7.64	33.97	26.54	153.7	.417	1.95	2.39
250	7.20	34.02	26.64	144.7	.494	1.64	2.60
300	6.78	34.06	26.73	136.9	.565	1.34	2.82
400	5.90	34.15	26.92	120.0	.695	0.80	2.91
500	5.22	34.23	27.06	106.8	.809	0.57	3.04
600	4.78	34.29	27.16	98.1	.912	0.52	3.13
700	4.56	34.33	27.22	93.3	1.009	0.52	3.13
800	4.38	34.36	27.26	90.0	1.102	0.53	3.14
1000	3.83	34.45	27.39	78.9	1.283	0.55	3.13

STATION 504 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ}17'N$ $126^{\circ}32'W$ September 7, 1949 0207 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,200 m. Weather: overcast
 Sea: moderate Wind: 140° , force 1.

0	17.00	33.19	24.15	378.2	.0000	5.72	0.82
10	15.67	33.30	24.54	341.5	.0361	5.75	0.87
20	12.90	33.41	25.20	278.2	.0672	5.90	1.02
30	11.81	33.45	25.44	255.5	.0940	5.90	1.34
50	10.34	33.49	25.74	228.0	.1426	4.97	1.67
75	8.91	33.60	26.06	197.9	.1962	3.80	1.93
100	8.42	33.69	26.20	184.2	.2442	3.15	2.12
150	7.90	33.93	26.47	159.5	.331	2.30	2.26
200	7.29	33.96	26.58	149.5	.409	2.00	2.40
250	6.98	34.00	26.65	143.3	.482	1.53	2.63
300	6.69	34.05	26.74	135.2	.553	1.07	2.85
400	5.64	34.05	26.87	124.3	.684	0.95	2.98
500	5.14	34.11	26.98	114.8	.805	0.62	3.01
600	4.76	34.22	27.11	103.0	.914	0.43	3.04
700	4.45	34.29	27.20	95.2	1.015	0.43	3.06
800	4.17	34.34	27.27	89.1	1.108	0.45	3.07
1000	3.66	34.37	27.34	82.5	1.281	0.52	3.07

STATION 505 (Interpolated Values at Standard Depths)

HORIZON: $38^{\circ}06'N$ $127^{\circ}20'W$ September 7, 1949 0859 GCT Wire angle: 26°
 Sounding: missing Depth of observation: 1,112 m. Weather: overcast
 Sea: rough Wind: 160° , force 1.

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} (μ g at/L)
0	18.70	32.80	23.44	445.9	.0000	5.52	0.47
10	18.20	32.81	23.57	433.5	.0442	5.81	0.46
20	17.35	32.98	23.91	401.8	.0861	5.87	0.45
30	16.70	32.98	24.06	387.6	.1257	5.87	0.46
50	15.80	32.98	24.26	368.5	.2017	5.81	0.58
75	11.20	33.01	25.21	278.3	.2830	6.06	1.02
100	9.58	32.96	25.45	255.8	.3502	5.42	1.26
150	8.20	33.56	26.13	191.6	.463	4.03	1.79
200	7.52	33.87	26.48	159.5	.551	2.99	2.18
250	7.08	33.98	26.63	146.1	.628	2.40	2.41
300	6.50	34.00	26.72	137.4	.700	2.08	2.55
400	5.57	34.06	26.89	122.7	.831	1.27	2.80
500	5.09	34.15	27.02	111.0	.949	0.78	3.00
600	4.75	34.22	27.11	102.9	1.056	0.54	3.13
700	4.40	34.28	27.19	95.3	1.157	0.42	3.22
800	4.10	34.33	27.27	88.9	1.250	0.40	3.26
1000	3.50	34.41	27.39	77.9	1.418	0.52	3.21

STATION 506 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}54'N$ $128^{\circ}10'W$ September 7, 1949 1459 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,185 m. Weather: cloudy
 Sea: moderate Wind: missing, force 1.

0	18.80	33.04	23.60	430.7	.0000	5.62	0.51
10	18.35	33.06	23.73	418.8	.0426	5.72	0.54
20	18.18	33.05	23.76	416.0	.0846	5.84	0.56
30	17.90	33.03	23.81	411.1	.1261	5.98	0.59
50	13.40	33.01	24.79	317.8	.1993	6.21	0.84
75	12.14	33.04	25.06	292.7	.2761	6.05	1.04
100	10.77	33.10	25.36	264.7	.3462	5.86	1.28
150	9.06	33.53	25.98	206.4	.465	4.31	1.86
200	8.19	33.89	26.40	167.7	.559	2.60	2.32
250	7.56	34.01	26.58	150.3	.639	2.31	2.47
300	7.02	34.04	26.68	141.6	.713	2.06	2.58
400	5.93	34.05	26.83	127.8	.848	1.35	2.82
500	5.27	34.14	26.98	114.1	.970	0.81	3.02
600	4.85	34.23	27.10	103.4	1.080	0.54	3.21
700	4.49	34.29	27.19	95.6	1.186	0.45	3.31
800	4.17	34.33	27.26	89.9	1.279	0.42	3.36
1000	3.63	34.41	27.38	79.4	1.450	0.48	3.38

STATION 507 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}45'N$ $128^{\circ}59'W$ September 7, 1949 2054 GCT Wire angle: 14°
 Sounding: missing Depth of observation: 1,150 m. Weather: overcast
 Sea: moderate Wind: 140° , force 2.

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	18.90	33.01	23.55	435.3	.0000	5.30	0.56
10	18.05	32.95	23.71	419.9	.0429	5.55	0.57
20	17.98	32.96	23.74	417.9	.0850	5.55	0.59
30	17.70	33.01	23.84	408.0	.1264	5.57	0.64
50	13.30	33.05	24.85	312.9	.1989	6.15	0.86
75	11.00	33.07	25.30	270.4	.2722	5.71	1.20
100	9.89	33.23	25.61	240.7	.3365	5.56	1.47
150	8.83	33.67	26.13	192.5	.446	3.62	2.00
200	8.08	33.90	26.42	165.2	.536	2.61	2.37
250	7.42	34.00	26.60	149.1	.615	2.38	2.47
300	6.84	34.05	26.71	138.4	.687	2.06	2.58
400	6.04	34.10	26.86	125.5	.820	1.19	2.96
500	5.43	34.14	26.96	116.0	.942	0.83	3.14
600	4.94	34.21	27.08	106.0	1.054	0.56	3.27
700	4.58	34.27	27.17	98.2	1.157	0.42	3.34
800	4.25	34.33	27.25	90.8	1.253	0.38	3.37
1000	3.63	34.43	27.39	78.0	1.423	0.46	3.37

STATION 508 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}34'N$ $129^{\circ}47'W$ September 8, 1949 0242 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,157 m. Weather: cloudy
 Sea: moderate Wind: missing, force 2.

0	18.80	32.92	23.51	439.4	.0000	5.30	0.54
10	18.62	32.94	23.57	433.9	.0438	5.38	0.54
20	18.30	32.97	23.67	424.5	.0869	5.41	0.56
30	17.95	32.97	23.75	416.6	.1292	5.44	0.58
50	13.85	32.94	24.65	331.6	.2043	6.06	0.67
75	10.90	32.90	25.18	281.2	.2814	6.06	1.07
100	9.70	33.06	25.51	250.3	.3482	5.62	1.27
150	8.36	33.50	26.07	198.1	.461	4.30	1.76
200	7.64	33.81	26.41	165.7	.553	3.15	2.19
250	7.08	33.89	26.56	152.8	.633	2.70	2.35
300	6.56	33.91	26.64	144.9	.708	2.39	2.46
400	5.56	33.93	26.79	132.0	.848	1.46	2.84
500	4.98	34.00	26.91	121.0	.975	1.21	3.06
600	4.55	34.13	27.06	107.3	1.090	1.02	3.18
700	4.15	34.23	27.18	96.0	1.193	0.85	3.24
800	3.87	34.31	27.27	88.0	1.286	0.73	3.27
1000	3.55	34.43	27.40	77.0	1.453	0.53	3.27

STATION 509 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ} 21' N$ $130^{\circ} 36' W$ September 8, 1949 0907 GCT Wire angle: 32°
 Sounding: missing Depth of observation: 966 m. Weather: cloudy
 Sea: moderate Wind: 250° , force 3.

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	19.80	33.14	23.42	447.7	.0000	4.04	0.55
10	19.34	33.14	23.54	436.8	.0444	4.12	0.55
20	19.30	33.16	23.56	434.7	.0882	4.70	0.59
30	19.24	33.22	23.62	429.3	.1315	4.87	0.57
50	14.55	33.24	24.73	323.7	.2072	5.05	0.55
75	12.27	33.09	25.08	291.1	.2845	4.89	0.64
100	11.09	33.08	25.29	271.8	.3553	4.48	0.76
150	9.36	33.18	25.66	236.9	.483	4.10	1.28
200	8.35	33.82	26.32	175.1	.587	3.91	1.79
250	7.51	33.96	26.55	153.5	.670	2.96	2.10
300	6.84	34.02	26.69	140.6	.744	2.26	2.44
400	5.77	34.05	26.85	125.8	.878	1.52	2.92
500	5.16	34.15	27.01	111.9	.998	0.97	3.13
600	4.79	34.25	27.13	101.3	1.106	0.57	3.28
700	4.45	34.31	27.21	93.5	1.204	0.41	3.37
800	4.13	34.36	27.29	87.0	1.295	0.40	3.38
1000	(3.57)	(34.46)	(27.42)	(75.1)	(1.459)	-	-

STATION 510 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ} 05' N$ $131^{\circ} 28' W$ September 8, 1949 1702, 1457 GCT Wire
 angle: $22^{\circ}, 29^{\circ}$ Sounding: missing Depth of observation: 1,134, 2,807 m.
 Weather: cloudy Sea: rough Wind: missing, force 2.

0	20.20	33.24	23.39	450.5	.0000	5.25	0.58
10	20.11	33.22	23.40	450.0	.0452	5.16	0.58
20	20.08	33.22	23.41	449.6	.0904	5.20	0.61
30	20.00	33.20	23.41	449.4	.1355	6.00	0.61
50	14.00	33.01	24.67	329.5	.2138	6.30	0.62
75	12.54	33.13	25.09	289.7	.2916	6.13	0.63
100	11.66	33.17	25.25	275.0	.3626	5.57	0.80
150	9.60	33.48	25.85	218.6	.487	5.32	1.12
200	8.40	33.81	26.30	176.7	.586	4.68	1.51
250	7.76	33.93	26.49	159.2	.671	4.36	1.69
300	7.05	33.99	26.64	145.7	.748	3.90	1.90
400	5.75	34.03	26.84	127.1	.885	2.28	2.51
500	5.19	34.07	26.94	118.3	1.009	1.15	2.89
600	4.71	34.18	27.08	105.5	1.122	0.68	3.06
700	4.30	34.30	27.22	92.7	1.222	0.52	3.11
800	3.99	34.36	27.30	85.5	1.312	0.44	3.14
1000	3.49	34.43	27.41	76.3	1.476	0.45	3.14
1200	3.03	34.50	27.51	67.2	1.621	-	-
1500	2.51	34.56	27.60	58.8	1.812	-	-
2000	1.96	34.65	27.72	47.8	2.083	-	-
2500	1.73	34.68	27.76	44.6	2.318	-	-

STATION 601 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}18'N$ $123^{\circ}12'W$ September 11, 1949 1232 GCT Wire angle: 42°
 Sounding: missing Depth of observation: 999 m. Weather: clear
 Sea: moderate Wind: 300, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	Δ D (dyn.m.)	O ₂ (ml/L)	P O ₄ -P (mg at/L)
0	16.01	33.25	24.42	352.2	.0000	5.80	0.43
10	15.87	33.30	24.49	345.7	.0350	6.21	0.51
20	12.48	33.41	25.28	270.5	.0660	6.45	1.00
30	10.54	33.54	25.74	227.2	.0909	6.35	1.50
50	9.23	33.60	26.00	202.9	.1342	4.90	2.07
75	8.93	33.75	26.17	186.9	.1832	3.12	2.18
100	8.61	33.85	26.30	174.9	.2287	2.66	2.21
150	8.16	34.04	26.52	155.2	.312	2.40	2.28
200	7.94	34.12	26.61	146.8	.388	1.56	2.56
250	7.41	34.17	26.73	136.5	.459	1.28	2.73
300	7.03	34.18	26.79	131.4	.527	1.14	2.81
400	6.51	34.18	26.86	125.6	.656	0.74	2.96
500	5.77	34.21	26.98	115.2	.777	0.50	3.12
600	5.04	34.28	27.12	102.0	.887	0.41	3.29
700	4.57	34.34	27.22	92.7	.985	0.40	3.34
800	4.24	34.39	27.30	86.3	1.076	0.42	3.34
1000	3.77	34.47	27.41	76.7	1.241	0.55	3.32

STATION 602 (Interpolated Values at Standard Depths)

HORIZON: $37^{\circ}03'N$ $123^{\circ}57'W$ September 11, 1949 0554 GCT Wire angle: 36°
 Sounding: missing Depth of observation: 1,071 m. Weather: clear
 Sea: moderate Wind: 300, force 4.

0	17.40	33.44	24.24	369.0	.0000	5.36	0.32
10	16.82	33.32	24.29	364.9	.0368	5.44	0.37
20	15.84	33.40	24.58	338.1	.0721	5.95	0.35
30	13.90	33.40	24.99	298.4	.1041	5.85	0.61
50	10.75	33.41	25.60	240.6	.1582	4.90	1.39
75	9.38	33.61	25.99	204.2	.2142	3.80	1.91
100	8.73	33.80	26.24	180.5	.2626	2.77	2.08
150	7.86	33.97	26.51	156.0	.347	2.28	2.22
200	7.34	34.03	26.63	145.1	.423	1.94	2.36
250	6.73	34.02	26.71	138.3	.494	1.55	2.51
300	5.97	34.00	26.79	130.8	.562	1.66	2.61
400	5.64	34.12	26.92	119.1	.688	0.98	2.85
500	5.29	34.23	27.05	107.6	.802	0.51	3.05
600	4.89	34.29	27.15	99.5	.907	0.40	3.16
700	4.53	34.34	27.23	92.4	1.004	0.37	3.20
800	4.21	34.39	27.30	86.0	1.094	0.42	3.20
1000	3.64	34.48	27.43	74.4	1.256	0.69	3.17

STATION 603 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}48'N$ $124^{\circ}42'W$ September 11, 1949 0003 GCT Wire angle: 19°
 Sounding: missing Depth of observation: 1,135 m. Weather: partly cloudy
 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 ₄ -P (mg at/L)
0	17.90	33.46	24.14	379.0	.0000	5.65	0.44
10	16.65	33.35	24.35	359.1	.0370	5.72	0.50
20	14.70	33.33	24.77	319.4	.0711	5.80	0.70
30	11.80	33.34	25.36	263.5	.1004	5.81	1.01
50	9.99	33.52	25.82	220.0	.1490	4.55	1.57
75	9.12	33.60	26.03	200.9	.2019	3.62	1.89
100	8.68	33.72	26.19	185.7	.2505	3.23	2.00
150	7.90	33.91	26.46	161.0	.338	2.75	2.09
200	7.53	34.00	26.58	149.9	.416	2.14	2.31
250	7.12	34.04	26.67	142.2	.490	1.86	2.50
300	6.68	34.05	26.74	136.1	.560	1.53	2.62
400	5.97	34.06	26.84	127.6	.693	0.82	2.84
500	5.44	34.18	27.00	113.3	.814	0.49	3.02
600	4.99	34.31	27.15	99.2	.921	0.45	3.12
700	4.58	34.35	27.23	92.2	1.018	0.45	3.15
800	4.24	34.38	27.29	87.1	1.109	0.46	3.16
1000	3.65	34.46	27.42	75.8	1.273	0.60	3.16

STATION 604 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}37'N$ $125^{\circ}30'W$ September 10, 1949 1821 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,034 m. Weather: partly cloudy
 Sea: moderate Wind: 320° , force 4.

0	18.89	33.26	23.74	416.9	.0000	5.25	0.48
10	18.54	33.17	23.76	415.6	.0418	5.51	0.47
20	18.33	33.21	23.85	407.6	.0831	5.62	0.51
30	18.21	33.23	23.89	403.9	.1238	5.57	0.51
50	17.97	33.22	23.94	399.7	.2046	5.38	0.50
75	12.50	33.05	25.00	298.5	.2924	6.30	0.53
100	11.39	33.12	25.26	273.9	.3644	5.90	0.60
150	9.01	33.30	25.81	222.8	.489	4.23	1.51
200	8.37	33.81	26.31	176.1	.590	3.40	2.01
250	7.80	33.97	26.52	156.9	.674	2.54	2.32
300	7.13	34.03	26.66	143.8	.749	2.07	2.53
400	6.12	34.08	26.83	129.9	.887	1.35	2.86
500	5.44	34.11	26.94	118.6	1.012	0.77	3.09
600	5.03	34.19	27.05	108.5	1.127	0.34	3.28
700	4.68	34.29	27.17	97.8	1.231	0.12	3.37
800	4.36	34.36	27.26	89.8	1.326	0.11	3.38
1000	3.78	34.44	27.39	78.9	1.497	0.58	3.36

STATION 605 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}24'N$ $126^{\circ}18'W$ September 10, 1949 1247 GCT Wire angle: 22°
 Sounding: missing Depth of observation: 1,099 m. Weather: cloudy
 Sea: moderate Wind: 320° , 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	18.80	33.13	23.67	424.2	.0000	5.50	0.53
10	18.37	33.16	23.80	412.0	.0420	5.45	0.51
20	18.24	33.17	23.83	408.6	.0832	5.60	0.57
30	18.11	33.16	23.86	406.7	.1241	5.83	0.57
50	17.67	33.10	23.92	401.4	.2053	6.08	0.54
75	14.10	33.07	24.70	327.7	.2970	6.22	0.59
100	11.51	33.01	25.16	284.2	.3739	6.18	0.80
150	9.23	33.33	25.80	223.9	.502	5.00	1.42
200	8.24	33.66	26.21	185.5	.605	3.10	2.04
250	7.79	33.91	26.47	161.1	.692	2.32	2.26
300	7.01	33.97	26.63	146.8	.770	2.24	2.39
400	5.95	34.00	26.79	131.7	.910	2.04	2.65
500	5.42	34.09	26.93	119.7	1.037	0.87	2.97
600	5.11	34.20	27.05	108.8	1.152	0.54	3.12
700	4.77	34.29	27.16	99.0	1.257	0.47	3.16
800	4.43	34.37	27.26	89.9	1.353	0.45	3.18
1000	3.86	34.45	27.39	79.1	1.524	0.55	3.19

STATION 606 (Interpolated Values at Standard Depths)

HORIZON: $36^{\circ}10'N$ $127^{\circ}02'W$ September 10, 1949 0644 GCT Wire angle: 12°
 Sounding: missing Depth of observation: 1,166 m. Weather: partly cloudy
 Sea: moderate Wind: 320° , force 3.

0	19.50	33.13	23.49	441.1	.0000	4.77	0.52
10	19.15	33.03	23.50	440.1	.0442	5.35	0.50
20	18.93	33.08	23.60	431.4	.0880	5.40	0.54
30	18.76	33.07	23.63	428.4	.1312	5.44	0.56
50	15.34	32.88	24.29	366.3	.2110	5.85	0.56
75	11.93	32.89	24.99	299.7	.2947	6.11	0.60
100	10.58	32.95	25.28	272.6	.3667	6.08	0.73
150	8.91	33.14	25.70	233.2	.494	4.74	1.48
200	8.08	33.74	26.29	177.1	.597	3.33	1.99
250	7.50	33.94	26.54	154.8	.681	2.71	2.19
300	6.97	34.02	26.67	142.5	.756	2.19	2.42
400	5.98	34.04	26.82	129.1	.893	1.26	2.84
500	5.48	34.10	26.93	119.7	1.018	0.76	3.02
600	5.05	34.20	27.06	108.0	1.133	0.50	3.10
700	4.64	34.29	27.18	97.4	1.237	0.40	3.17
800	4.28	34.37	27.28	88.1	1.331	0.37	3.22
1000	3.65	34.47	27.42	75.3	1.496	0.46	3.19

STATION 607 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}58'N$ $127^{\circ}51'W$ September 10, 1949 0050 GCT Wire angle: 23°
 Sounding: missing Depth of observation: 1,079 m. Weather: clear
 Sea: moderate Wind: missing, 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 (mg at/L)
0	19.89	33.06	23.33	455.8	.0000	5.39	0.50
10	19.42	32.97	23.39	450.9	.0455	5.42	0.52
20	19.24	32.99	23.45	445.6	.0905	5.33	0.55
30	19.02	32.99	23.51	440.2	.1350	5.34	0.54
50	14.00	32.98	24.65	331.7	.2126	6.15	0.53
75	10.69	32.83	25.16	283.0	.2898	6.24	0.71
100	9.66	32.77	25.29	271.2	.3596	6.00	0.98
150	8.72	33.52	26.03	202.0	.479	4.46	1.58
200	8.01	33.77	26.33	174.1	.573	3.46	2.04
250	7.41	33.93	26.54	154.2	.656	2.75	2.29
300	6.81	34.04	26.71	139.0	.730	2.11	2.47
400	5.79	34.12	26.91	120.9	.861	1.17	2.85
500	5.17	34.12	26.98	114.4	.980	0.74	3.01
600	4.79	34.20	27.09	104.9	1.090	0.54	3.10
700	4.46	34.30	27.20	94.5	1.196	0.42	3.17
800	4.15	34.38	27.30	85.9	1.287	0.39	3.21
1000	3.59	34.44	27.41	76.7	1.451	0.52	3.20

STATION 608 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}43'N$ $128^{\circ}35'W$ September 9, 1949 1814 GCT Wire angle: 14°
 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 (mg at/L)
0	19.99	33.21	23.42	447.5	.0000	3.55	0.54
10	19.59	33.08	23.43	447.3	.0449	3.95	0.55
20	19.10	33.22	23.66	425.4	.0887	4.02	0.56
30	18.69	33.16	23.72	420.3	.1312	4.09	0.57
50	15.74	32.94	24.24	370.2	.2106	4.40	0.58
75	11.10	32.79	25.06	292.9	.2940	4.53	0.71
100	10.00	32.77	25.23	276.6	.3656	4.43	0.97
150	8.84	33.45	25.95	209.0	.438	3.82	1.60
200	8.01	33.32	26.37	170.3	.583	2.53	2.14
250	7.37	33.91	26.53	155.2	.665	2.21	2.32
300	6.81	33.96	26.65	144.8	.741	1.94	2.46
400	5.94	34.03	26.81	129.5	.879	1.00	2.88
500	5.25	34.13	26.98	114.7	1.002	0.60	3.06
600	4.76	34.21	27.10	103.8	1.113	0.49	3.14
700	4.49	34.27	27.18	97.1	1.214	0.44	3.16
800	4.24	34.32	27.24	91.5	1.309	0.41	3.18
1000	3.68	34.41	27.37	80.0	1.483	0.51	3.26

STATION 609 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}30'N$ $129^{\circ}24'W$ September 9, 1949 1116 GCT Wire angle: 14°
 Sounding: missing Depth of observation: 1,152 m. Weather: cloudy
 Sea: moderate Wind: missing, force 3.

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	20.00	33.13	23.36	453.6	.0000	5.35	0.54
10	19.59	33.13	23.46	443.6	.0450	5.40	0.55
20	18.99	33.26	23.72	419.8	.0884	5.57	0.51
30	17.90	33.25	23.98	395.2	.1293	5.79	0.51
50	14.15	33.19	24.78	319.3	.2011	6.15	0.54
75	12.87	33.22	25.06	292.3	.2780	6.19	0.52
100	11.99	33.23	25.24	276.5	.3497	5.98	0.61
150	9.77	33.37	25.74	229.3	.477	5.11	1.09
200	8.30	33.72	26.25	181.8	.580	4.40	1.68
250	7.74	33.90	26.47	161.2	.667	3.95	1.86
300	7.15	33.96	26.60	149.2	.745	3.40	1.96
400	5.84	34.01	26.81	129.7	.886	1.91	2.67
500	5.04	34.07	26.96	116.5	1.010	1.07	3.00
600	4.63	34.17	27.08	105.3	1.122	0.63	3.18
700	4.37	34.26	27.18	96.5	1.224	0.43	3.29
800	4.10	34.34	27.27	88.2	1.317	0.35	3.37
1000	3.60	34.46	27.42	75.3	1.482	0.43	3.34

STATION 610 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}18'N$ $130^{\circ}12'W$ September 9, 1949 0557 GCT Wire angle: 27°
 Sounding: missing Depth of observation: 1,084 m. Weather: partly cloudy
 Sea: rough Wind: 310° , force 4.

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	20.30	33.21	23.34	455.2	.0000	5.31	0.49
10	19.99	33.17	23.39	450.7	.0455	5.05	0.52
20	19.54	33.18	23.52	439.1	.0902	4.45	0.53
30	18.70	33.23	23.77	415.5	.1330	4.44	0.52
50	16.35	33.30	24.38	357.2	.2107	6.05	0.49
75	13.11	33.27	25.05	293.8	.2925	6.08	0.56
100	12.56	33.33	25.21	279.6	.3647	5.80	0.64
150	11.20	33.44	25.55	248.2	.497	5.39	0.94
200	8.81	33.58	26.06	200.0	.610	4.77	1.51
250	8.01	33.88	26.41	166.7	.903	4.15	1.74
300	7.34	33.93	26.55	154.0	.783	3.53	2.00
400	5.96	33.99	26.78	132.5	.928	2.30	2.53
500	5.07	34.07	26.95	116.8	1.054	1.25	2.89
600	4.70	34.18	27.08	105.4	1.166	0.70	3.04
700	4.39	34.27	27.19	95.9	1.267	0.50	3.14
800	4.10	34.33	27.27	88.9	1.361	0.45	3.22
1000	3.55	34.43	27.40	77.1	1.528	0.55	3.27

STATION 701 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}41'N$ $121^{\circ}50'W$ September 13, 1949 0650, 0725 GCT Wire
 angle: 50° , 65° Sounding: missing Depth of observation: 233, 640 m.
 Weather: partly cloudy Sea: moderate Wind: 300° , force 4.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P O_4 - P$ ($^{\prime\prime}$ g at/L)
0	15.70	33.19	24.45	349.7	.0000	5.90	0.35
10	15.30	33.21	24.55	340.3	.0346	5.92	0.42
20	14.90	33.16	24.60	335.8	.0686	6.34	0.48
30	13.25	33.04	24.85	312.2	.1011	5.90	0.57
50	10.20	32.81	25.23	275.9	.1602	5.45	0.76
75	10.74	33.64	25.78	224.2	.2231	4.30	1.46
100	9.15	33.53	25.97	207.0	.2773	3.83	1.76
150	8.78	33.70	26.16	189.6	.377	3.29	1.95
200	8.02	33.94	26.46	161.4	.466	2.43	2.20
250	7.54	34.07	26.63	145.7	.543	1.62	2.50
300	7.29	34.13	26.72	138.5	.614	1.13	2.64
400	6.56	34.19	26.86	125.6	.743	0.89	2.85
500	5.78	34.26	27.02	111.7	.867	0.64	3.00
600	5.02	34.30	27.14	100.4	.974	0.44	3.07
700	(4.86)	(34.33)	(27.18)	(97.1)	(1.074)	-	-
800	(4.35)	(34.36)	(27.26)	(89.7)	(1.168)	-	-
1000	(3.90)	(34.41)	(27.35)	(82.6)	(1.343)	-	-

STATION 702 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}24'N$ $122^{\circ}36'W$ September 13, 1949 1713, 1451 GCT Wire
 angle: 36° , 46° Sounding: missing Depth of observation: 1,355, 3,222 m.
 Weather: cloudy Sea: very rough Wind: 320° , force 5.

0	17.00	33.15	24.12	381.2	.0000	5.68	0.38
10	16.55	33.15	24.22	371.4	.0378	5.52	0.35
20	15.21	33.19	24.55	340.0	.0735	5.67	0.55
30	14.13	33.19	24.78	318.3	.1065	5.88	0.70
50	10.55	32.99	25.31	268.3	.1655	5.86	0.82
75	10.41	33.19	25.49	251.7	.2308	5.49	1.05
100	10.54	33.63	25.81	222.1	.2904	5.01	1.80
150	9.70	33.86	26.13	192.1	.395	3.40	2.23
200	9.12	33.98	26.32	174.7	.487	1.91	2.39
250	8.67	34.11	26.49	159.5	.571	1.60	2.56
300	8.26	34.21	26.64	146.8	.649	1.37	2.75
400	7.30	34.22	26.79	133.6	.790	0.99	2.89
500	6.48	34.24	26.91	122.1	.919	0.62	3.15
600	5.71	34.28	27.04	110.6	1.036	0.49	3.25
700	5.10	34.32	27.15	100.8	1.143	0.45	3.30
800	4.65	34.36	27.23	93.3	1.241	0.45	3.30
1000	3.99	34.41	27.34	83.5	1.420	0.56	3.30
1200	3.39	34.47	27.45	73.4	1.578	0.78	3.25
1500	2.71	34.51	27.54	64.8	1.789	1.15	3.00
2000	2.11	34.54	27.62	57.9	2.100	1.92	2.78
2500	1.81	34.61	27.70	50.7	2.376	2.28	2.74
3000	1.68	34.61	27.71	50.6	2.634	2.49	2.72

STATION 703 (Interpolated Values at Standard Depths)

HORIZON: $35^{\circ}18'N$ $123^{\circ}24'W$ September 13, 1949 2301 GCT Wire angle: 40°
 Sounding: missing Depth of observation: 1,068 m. Weather: cloudy
 Sea: rough Wind: 320° , force 5.

Depth (m)	T ($^{\circ}$ C)	S (‰)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ ($^{\prime\prime}$ g at/L)
0	18.30	33.08	23.75	415.9	.0000	5.25	0.30
10	18.05	33.06	23.80	412.0	.0416	5.25	0.37
20	18.00	33.06	23.81	411.1	.0829	5.25	0.34
30	17.91	33.08	23.85	407.8	.1240	5.20	0.34
50	17.28	33.16	24.06	388.2	.2040	5.70	0.39
75	11.65	32.95	25.08	290.6	.2893	5.79	0.55
100	10.85	33.15	25.38	262.5	.3589	5.28	0.94
150	9.20	33.66	26.06	199.1	.475	3.53	1.89
200	8.65	33.86	26.30	174.7	.569	2.44	2.20
250	8.18	34.07	26.54	155.0	.652	1.84	2.42
300	7.70	34.16	26.68	142.1	.727	1.47	2.61
400	6.42	34.15	26.35	126.8	.862	1.08	2.85
500	5.63	34.15	26.95	118.0	.986	0.82	3.03
600	5.23	34.20	27.04	110.4	1.101	0.56	3.24
700	4.88	34.27	27.13	101.9	1.208	0.45	3.32
800	4.54	34.32	27.21	95.0	1.308	0.48	3.32
1000	3.91	34.39	27.33	84.3	1.439	0.65	3.30

STATION 704 (Interpolated Values at Standard Depths)

HORIZON: $34^{\circ}54'N$ $124^{\circ}06'W$ September 14, 1949 0442 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,259 m. Weather: partly cloudy
 Sea: rough Wind: 320° , force 4.

0	18.40	33.33	23.92	400.0	.0000	5.43	0.33
10	18.30	33.24	23.87	404.5	.0404	5.38	0.34
20	18.28	33.27	23.90	402.3	.0809	5.43	0.33
30	18.23	33.29	23.93	399.9	.1212	5.53	0.33
50	16.06	33.30	24.45	350.9	.1956	5.80	0.41
75	12.40	33.24	25.17	282.9	.2753	6.06	0.76
100	10.42	33.57	25.78	244.4	.3416	4.60	1.49
150	8.78	33.71	26.17	188.8	.451	3.17	1.89
200	8.20	33.92	26.42	165.5	.540	2.40	2.21
250	7.57	33.98	26.56	152.7	.620	2.12	2.37
300	7.03	34.01	26.66	144.0	.695	1.80	2.49
400	6.23	34.06	26.80	131.0	.833	1.08	2.84
500	5.54	34.15	26.96	116.8	.958	0.75	3.00
600	5.09	34.25	27.09	104.8	1.070	0.57	3.12
700	4.76	34.32	27.19	96.6	1.172	0.50	3.18
800	4.45	34.38	27.27	89.4	1.266	0.47	3.20
1000	3.92	34.45	27.38	80.0	1.437	0.61	3.20

STATION 705 (Interpolated Values at Standard Depths)

HORIZON: $34^{\circ}24'N$ $124^{\circ}48'W$ September 14, 1949 1057 GCT Wire angle: 36°
 Sounding: missing Depth of observation: 927 m. Weather: cloudy
 Sea: rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (mg at/L)
0	18.80	33.18	23.70	420.5	.0000	5.47	0.30
10	18.58	33.15	23.73	418.1	.0421	5.47	0.34
20	18.55	33.15	23.74	417.4	.0840	5.52	0.34
30	18.15	33.15	23.84	408.3	.1255	5.63	0.34
50	16.20	33.14	24.29	365.6	.2033	5.81	0.35
75	13.00	32.97	24.84	313.7	.2887	5.71	0.42
100	11.22	33.06	25.25	275.5	.3628	5.55	0.62
150	9.33	33.46	25.88	216.0	.4865	4.65	1.34
200	8.19	33.84	26.36	171.3	.584	3.70	1.82
250	7.62	33.97	26.54	154.3	.666	2.63	2.25
300	7.09	33.93	26.63	146.8	.742	1.95	2.56
400	5.90	34.02	26.81	129.6	.881	1.28	2.94
500	5.32	34.10	26.95	117.7	1.006	0.81	3.12
600	4.93	34.18	27.06	103.2	1.120	0.54	3.23
700	4.58	34.25	27.15	99.6	1.225	0.45	3.30
800	4.28	34.32	27.24	91.9	1.321	0.47	3.34
1000	(3.75)	(34.45)	(27.40)	(77.9)	(1.493)	-	-

STATION 706 (Interpolated Values at Standard Depths)

HORIZON: $34^{\circ}24'N$ $125^{\circ}32'W$ September 14, 1949 1652 GCT Wire angle: 7°
 Sounding: missing Depth of observation: 1,180 m. Weather: partly cloudy
 Sea: rough Wind: 320° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (mg at/L)
0	19.10	33.19	23.64	426.9	.0000	5.54	0.33
10	18.80	33.19	23.71	420.1	.0425	5.60	0.35
20	18.15	33.19	23.87	445.1	.0860	5.64	0.38
30	17.45	33.18	24.03	389.9	.1279	5.65	0.40
50	16.40	33.13	24.24	370.7	.1943	5.60	0.35
75	12.36	32.97	24.97	301.8	.2788	6.31	0.39
100	10.75	33.11	25.37	263.9	.3500	5.80	0.77
150	8.96	33.49	25.96	207.8	.469	4.75	1.44
200	8.18	33.87	26.38	169.0	.564	3.63	1.87
250	7.55	33.94	26.53	155.5	.645	2.99	2.18
300	6.91	33.98	26.65	144.5	.721	2.48	2.37
400	5.75	34.04	26.85	126.4	.857	1.57	2.74
500	5.24	34.14	26.99	113.8	.978	0.83	3.00
600	4.90	34.24	27.11	103.4	1.088	0.51	3.16
700	4.54	34.31	27.20	94.8	1.188	0.51	3.24
800	4.25	34.35	27.27	89.3	1.281	0.52	3.28
1000	3.71	34.43	27.38	78.9	1.451	-	3.29

STATION 707 (Interpolated Values at Standard Depths)

HORIZON: $34^{\circ}19'N$ $126^{\circ}18'W$ September 14, 1949 2214 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,030 m. Weather: moderate rain
 showers Sea: rough Wind: 320° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	AD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (µg at/L)
0	19.20	33.15	23.58	432.4	.0000	5.50	0.37
10	18.40	33.08	23.73	418.5	.0427	5.67	0.36
20	18.00	33.15	23.88	404.6	.0840	5.75	0.37
30	17.70	33.15	23.95	397.9	.1243	5.74	0.39
50	16.98	33.16	24.13	381.5	.2027	5.79	0.46
75	14.30	33.26	24.80	317.9	.2906	6.40	0.55
100	11.35	33.27	25.39	262.1	.3635	6.07	0.72
150	8.80	33.38	25.90	213.7	.483	3.75	1.95
200	8.36	33.86	26.35	172.2	.581	2.89	2.29
250	8.00	33.97	26.49	159.7	.664	2.41	2.47
300	6.99	34.02	26.67	142.7	.740	2.04	2.72
400	5.57	34.10	26.92	119.6	.873	1.37	3.06
500	4.98	34.14	27.02	110.5	.989	0.83	3.29
600	4.65	34.27	27.16	98.1	1.094	0.58	3.41
700	4.37	34.38	27.28	87.4	1.187	0.46	3.48
800	4.14	34.44	27.35	81.5	1.273	0.46	3.52
1000	3.67	34.45	27.41	76.9	1.433	0.64	3.56

STATION 708 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}51'N$ $127^{\circ}03'W$ September 15, 1949 0355 GCT Wire angle: 26°
 Sounding: missing Depth of observation: 1,064 m. Weather: overcast
 Sea: rough Wind: 320° , force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	AD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (µg at/L)
0	19.40	33.19	23.56	434.4	.0000	5.50	0.35
10	19.05	33.24	23.69	422.5	.0430	5.56	0.34
20	18.39	33.15	23.78	413.6	.0850	5.66	0.39
30	17.75	33.17	23.95	397.6	.1257	5.76	0.40
50	16.48	33.19	24.27	368.1	.2027	6.04	0.35
75	13.73	33.13	24.82	315.9	.2886	6.20	0.35
100	11.95	33.13	25.17	283.1	.3640	5.67	0.52
150	10.06	33.27	25.61	241.6	.496	5.03	1.25
200	8.76	33.76	26.21	185.7	.604	3.66	1.58
250	8.09	33.99	26.49	159.6	.691	2.85	1.66
300	7.49	34.03	26.61	148.7	.768	2.37	2.07
400	6.36	34.05	26.78	133.4	.911	1.59	2.78
500	5.46	34.09	26.92	120.1	1.038	0.89	3.01
600	4.90	34.19	27.07	107.0	1.153	0.62	3.14
700	4.47	34.23	27.19	96.0	1.255	0.50	3.23
800	4.12	34.37	27.30	86.4	1.348	0.47	3.27
1000	3.62	34.50	27.45	72.7	1.508	0.60	3.27

STATION 709 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}35'N$ $127^{\circ}47'W$ September 15, 1949 0954 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,101 m. Weather: rain
 Sea: rough Wind: 320° , 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)	$P_{O_2 - F}$ (μg at/L)
0	20.00	33.24	23.44	445.5	.0000	5.27	0.19
10	19.82	33.27	23.51	438.9	.0444	5.06	0.29
20	19.78	33.30	23.55	436.3	.0883	5.01	0.30
30	19.60	33.32	23.61	430.0	.1318	5.04	0.30
50	16.30	33.35	24.43	352.5	.2105	5.59	0.20
75	14.67	33.60	24.98	300.6	.2926	5.65	0.19
100	14.27	33.64	25.10	290.2	.3669	5.94	0.31
150	10.50	33.37	25.62	241.4	.501	5.70	0.82
200	8.76	33.61	26.09	196.8	.611	5.45	1.41
250	8.20	33.76	26.29	178.2	.705	5.07	1.90
300	7.54	33.81	26.43	165.8	.792	4.07	2.25
400	6.29	33.91	26.68	142.7	.948	1.92	2.68
500	5.54	34.04	26.87	125.0	1.083	1.16	2.95
600	5.00	34.15	27.03	111.2	1.202	0.80	3.17
700	4.60	34.24	27.14	100.6	1.309	0.54	3.33
800	4.26	34.31	27.23	92.4	1.406	0.44	3.39
1000	3.68	34.37	27.34	82.9	1.583	0.65	3.41

STATION 710 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}19'N$ $128^{\circ}31'W$ September 15, 1949 1724, 1507 GCT Wire angle: $21^{\circ}, 32^{\circ}$ Sounding: missing Depth of observation: 1,088, 3,061 m. Weather: rain showers in last hour Sea: moderate Wind: 320° , force 1.

0	20.50	33.64	23.62	429.0	.0000	5.18	0.17
10	20.40	33.64	23.64	426.8	.0430	5.26	0.20
20	20.30	33.66	23.68	423.1	.0856	5.21	0.24
30	20.01	33.67	23.77	415.6	.1277	5.25	0.23
50	18.20	33.89	24.39	356.3	.2053	5.78	0.13
75	15.40	33.64	24.86	312.8	.2894	6.14	0.26
100	15.00	33.71	25.00	299.9	.3665	5.77	0.27
150	13.37	33.71	25.34	268.5	.510	5.48	0.38
200	10.99	33.76	25.83	221.9	.633	4.93	1.07
250	9.15	33.84	26.21	186.7	.736	4.47	1.48
300	8.01	33.91	26.44	165.2	.825	3.89	1.86
400	6.44	33.96	26.70	141.0	.979	2.71	2.56
500	5.44	33.96	26.82	129.5	1.115	1.28	3.07
600	4.84	34.01	26.93	119.7	1.241	0.70	3.27
700	4.41	34.17	27.10	103.6	1.354	0.51	3.36
800	4.06	34.27	27.22	92.9	1.453	0.45	3.40
1000	3.55	34.36	27.34	82.3	1.630	0.55	3.39
1200	3.11	34.42	27.44	74.1	1.788	0.87	3.23
1500	2.59	34.49	27.54	64.8	1.999	1.23	3.01
2000	2.02	34.57	27.65	54.5	2.302	1.36	2.92
2500	1.75	34.64	27.73	47.8	2.562	2.38	2.79
3000	1.62	34.61	27.71	50.0	2.312	2.60	2.87

STATION 801 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}50'N$ $120^{\circ}40'W$ September 18, 1949 1620 GCT Wire angle: 11°
 Sounding: missing Depth of observation: 1,145 m. Weather: fog
 Sea: rough Wind: missing, 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	16.40	33.51	24.53	341.7	.0000	5.69	-
10	16.30	33.51	24.55	339.7	.0342	5.66	-
20	16.25	33.51	24.56	339.0	.0683	5.75	-
30	16.08	33.51	24.60	335.7	.1022	5.76	-
50	13.00	33.47	25.23	276.4	.1637	5.46	-
75	10.40	33.42	25.67	234.5	.2279	4.50	-
100	9.46	33.74	26.08	196.2	.2821	3.30	-
150	8.37	33.95	26.42	164.9	.373	2.69	-
200	7.79	33.96	26.51	156.6	.454	2.31	-
250	7.19	33.99	26.62	146.7	.530	1.90	-
300	6.74	34.04	26.72	137.8	.602	1.39	-
400	6.20	34.12	26.85	126.1	.735	0.74	-
500	5.83	34.19	26.96	117.5	.858	0.42	-
600	5.39	34.25	27.06	108.6	.972	0.33	-
700	4.94	34.31	27.16	99.7	1.077	0.40	-
800	4.55	34.36	27.24	92.1	1.174	0.54	-
1000	3.90	34.44	27.37	80.5	1.348	0.74	-

STATION 802 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}31'N$ $121^{\circ}24'W$ September 18, 1949 1032 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,165 m. Weather: low fog
 Sea: very rough Wind: 320° , 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	16.80	33.49	24.42	351.8	.0000	5.75	-
10	16.35	33.49	24.53	342.4	.0343	5.78	-
20	16.20	33.51	24.58	337.3	.0690	5.68	-
30	16.15	33.51	24.59	337.2	.1029	5.60	-
50	16.17	33.51	24.58	338.2	.1708	5.77	-
75	12.00	33.54	25.48	253.4	.2451	4.99	-
100	10.40	33.59	25.80	222.6	.3050	3.73	-
150	8.44	33.90	26.37	169.8	.404	2.65	-
200	7.87	33.98	26.52	156.2	.486	2.32	-
250	7.47	34.03	26.61	147.7	.562	2.06	-
300	6.83	34.10	26.75	135.2	.634	1.65	-
400	6.00	34.23	26.97	115.3	.760	0.74	-
500	5.65	34.29	27.06	107.8	.872	0.46	-
600	5.34	34.32	27.12	102.8	.979	0.42	-
700	4.91	34.34	27.18	97.1	1.080	0.45	-
800	4.47	34.36	27.25	91.0	1.175	0.52	-
1000	3.80	34.42	27.37	80.6	1.348	0.71	-

STATION 803 (Interpolated Values at Standard Depths)

HORIZON: $33^{\circ}15'N$ $122^{\circ}09'W$ September 18, 1949 0443 GCT Wire angle: 38°
 Sounding: missing Depth of observation: 1,057 m. Weather: missing
 Sea: high Wind: 360° , 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	16.00	33.15	24.35	359.3	.0000	5.80	-
10	15.95	33.22	24.41	353.3	.0358	5.85	-
20	15.95	33.13	24.34	360.2	.0716	5.61	-
30	15.88	33.06	24.30	364.0	.1079	5.68	-
50	12.35	33.09	25.06	292.2	.1739	6.00	-
75	10.82	33.35	25.54	246.8	.2416	5.36	-
100	9.62	33.55	25.90	212.9	.2995	4.28	-
150	8.81	33.88	26.29	176.8	.398	2.71	-
200	8.48	34.06	26.48	159.4	.482	1.89	-
250	8.20	34.14	26.59	150.3	.560	1.39	-
300	7.75	34.20	26.70	140.0	.633	1.08	-
400	6.63	34.27	26.92	120.7	.765	0.68	-
500	5.83	34.31	27.05	108.6	.880	0.50	-
600	5.33	34.35	27.14	100.5	.986	0.42	-
700	4.92	34.39	27.22	93.4	1.084	0.39	-
800	4.57	34.42	27.29	87.8	1.175	0.42	-
1000	3.93	34.48	27.40	77.8	1.343	0.65	-

STATION 804 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}56'N$ $122^{\circ}49'W$ September 17, 1949 2131 GCT Wire angle: 38°
 Sounding: missing Depth of observation: 1,078 m. Weather: partly cloudy
 Sea: high Wind: 350° , force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (μg at/L)
0	18.90	33.33	23.79	412.1	.0000	5.43	-
10	18.46	33.33	23.90	401.7	.0408	5.33	-
20	18.41	33.33	23.92	400.8	.0811	5.30	-
30	18.40	33.33	23.92	400.9	.1214	5.35	-
50	18.23	33.24	23.88	405.3	.2024	5.64	-
75	13.67	33.30	24.96	302.5	.2914	5.90	-
100	11.95	33.33	25.32	268.3	.3632	5.75	-
150	9.43	33.56	25.94	210.1	.484	4.60	-
200	8.32	33.88	26.37	170.3	.579	3.88	-
250	7.75	33.99	26.54	153.7	.662	2.78	-
300	7.25	34.05	26.66	143.8	.738	1.90	-
400	6.21	34.15	26.88	124.1	.873	1.20	-
500	5.63	34.25	27.03	110.6	.992	0.74	-
600	5.25	34.33	27.14	101.0	1.099	0.45	-
700	4.86	34.38	27.22	93.3	1.197	0.35	-
800	4.50	34.42	27.30	87.0	1.288	0.36	-
1000	3.84	34.48	27.41	76.7	1.453	0.59	-

STATION 805 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}40'N$ $123^{\circ}30'W$ September 17, 1949 1440 GCT Wire angle: 46°
 Sounding: missing Depth of observation: 1,366 m. Weather: partly cloudy
 Sea: high Wind: 360° , force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	σ_2 (ml/L)	P_{O_4-P} (mg at/L)
0	19.00	33.32	23.53	437.1	.0000	5.47	-
10	18.66	33.34	23.86	405.8	.0423	5.42	-
20	18.64	33.28	23.82	410.2	.0833	5.46	-
30	17.50	33.22	24.05	388.3	.1234	5.79	-
50	13.80	33.07	24.76	321.1	.1946	6.09	-
75	11.35	33.13	25.28	272.0	.2692	5.92	-
100	10.10	33.60	25.86	216.9	.3307	5.01	-
150	9.04	34.00	26.35	171.4	.428	3.22	-
200	8.55	34.01	26.44	164.0	.573	2.82	-
250	8.12	34.02	26.51	157.9	.594	2.64	-
300	7.20	34.03	26.65	144.6	.670	2.47	-
400	6.45	34.26	26.93	119.0	.803	0.81	-
500	5.68	34.33	27.08	105.3	.916	0.44	-
600	5.07	34.37	27.19	95.7	1.018	0.40	-
700	4.60	34.40	27.27	88.8	1.111	0.43	-
800	4.26	34.44	27.34	82.8	1.197	0.50	-
1000	3.76	34.51	27.44	73.6	1.355	0.73	-

STATION 806 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}22'N$ $124^{\circ}13'W$ September 17, 1949 0756 GCT Wire angle: 45°
 Sounding: missing Depth of observation: 1,129 m. Weather: partly cloudy
 Sea: high Wind: 350° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	Δ D (dyn.m.)	σ_2 (ml/L)	P_{O_4-P} (mg at/L)
0	19.00	33.31	23.52	437.9	.0000	5.68	-
10	18.96	33.24	23.71	420.3	.0431	5.47	-
20	18.93	33.26	23.73	418.4	.0852	5.57	-
30	18.75	33.29	23.80	412.2	.1269	5.49	-
50	17.75	33.44	24.16	378.6	.2064	6.16	-
75	13.98	33.33	24.92	306.3	.2924	6.19	-
100	12.90	33.31	25.14	287.5	.3672	6.03	-
150	9.90	33.42	25.76	227.8	.497	4.96	-
200	8.68	33.84	26.28	178.5	.599	4.38	-
250	7.88	34.03	26.55	153.5	.683	4.08	-
300	7.35	34.05	26.64	145.3	.758	2.74	-
400	6.02	34.05	26.82	128.9	.896	1.68	-
500	5.28	34.10	26.95	117.2	1.020	0.88	-
600	4.78	34.25	27.13	101.1	1.130	0.59	-
700	4.45	34.37	27.26	89.2	1.227	0.55	-
800	4.18	34.44	27.34	81.8	1.313	0.54	-
1000	3.70	34.50	27.44	73.6	1.470	0.65	-

STATION 807 (Interpolated Values at Standard Depths)

HORIZON: $32^{\circ}05'N$ $124^{\circ}55'W$ September 17, 1949 0152 GCT Wire angle: 28°
 Sounding: missing Depth of observation: 1,204 m. Weather: cloudy
 Sea: very rough Wind: 320° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	19.80	33.44	23.65	426.0	.0000	5.41	-
10	19.34	33.45	23.77	414.3	.0422	6.18	-
20	19.29	33.47	23.80	412.0	.0837	5.37	-
30	19.06	33.51	23.89	403.6	.1246	5.43	-
50	16.96	33.54	24.42	353.3	.2007	5.78	-
75	14.61	33.45	24.88	310.2	.2841	6.03	-
100	13.39	33.46	25.14	286.0	.3591	5.70	-
150	11.37	33.67	25.69	234.3	.490	4.82	-
200	9.00	33.65	26.08	197.6	.599	4.42	-
250	8.13	33.89	26.41	167.6	.691	4.20	-
300	7.44	34.03	26.62	148.0	.770	3.50	-
400	6.12	34.10	26.85	126.4	.909	1.50	-
500	5.34	34.14	26.98	115.1	1.030	0.93	-
600	5.00	34.26	27.11	103.0	1.140	0.67	-
700	4.79	34.35	27.21	94.7	1.240	0.55	-
800	4.54	34.42	27.29	87.6	1.332	0.51	-
1000	3.86	34.49	27.42	76.3	1.498	0.62	-

STATION 808 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}45'N$ $125^{\circ}39'W$ September 16, 1949 2010 GCT Wire angle: 16°
 Sounding: missing Depth of observation: 1,130 m. Weather: cloudy
 Sea: rough Wind: 360° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (mg at/L)
0	19.90	33.38	23.58	432.8	.0000	5.30	-
10	19.40	33.37	23.70	421.6	.0429	5.28	-
20	19.25	33.38	23.74	417.5	.0850	5.44	-
30	19.09	33.39	23.79	413.2	.1267	5.53	-
50	18.37	33.45	24.02	392.3	.2077	5.61	-
75	14.71	33.53	24.92	306.4	.2955	6.13	-
100	14.48	33.64	25.05	294.4	.3741	5.81	-
150	11.25	33.45	25.55	248.3	.511	5.22	-
200	9.40	33.61	25.99	206.8	.625	3.82	-
250	8.54	34.04	26.46	162.7	.718	2.25	-
300	7.80	34.14	26.65	145.1	.796	1.67	-
400	6.92	34.22	26.84	128.4	.934	0.88	-
500	6.37	34.29	26.97	117.0	1.057	0.45	-
600	5.82	34.34	27.08	107.6	1.171	0.35	-
700	5.30	34.36	27.16	100.5	1.276	0.35	-
800	4.83	34.39	27.23	93.5	1.374	0.36	-
1000	4.10	34.44	27.35	82.7	1.552	0.57	-

STATION 809 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}29'N$ $126^{\circ}20'W$ September 16, 1949 1419 GCT Wire angle: 7°
 Sounding: missing Depth of observation: 1,183 m. Weather: moderate rain
 showers Sea: rough Wind: 010° , 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} -F (mg at/L)
0	20.00	33.49	23.63	427.4	.0000	5.33	-
10	19.91	33.53	23.69	422.5	.0427	4.42	-
20	19.83	33.50	23.69	422.8	.0851	4.98	-
30	19.70	33.50	23.72	420.2	.1274	5.46	-
50	18.16	33.70	24.26	369.0	.2067	5.59	-
75	15.52	33.79	24.95	304.0	.2913	5.97	-
100	14.83	33.78	25.09	290.1	.3661	5.86	-
150	12.55	33.58	25.40	262.4	.505	5.51	-
200	9.34	33.60	25.99	206.6	.623	4.06	-
250	8.53	33.77	26.25	182.5	.721	2.91	-
300	7.90	33.99	26.52	157.6	.807	2.37	-
400	6.61	34.09	26.78	133.8	.954	1.60	-
500	5.51	34.09	26.92	120.8	1.082	0.98	-
600	4.80	34.11	27.02	111.9	1.200	0.65	-
700	4.56	34.17	27.09	105.2	1.309	0.55	-
800	4.45	34.27	27.18	97.5	1.412	0.50	-
1000	4.00	34.39	27.32	85.2	1.596	0.55	-

STATION 810 (Interpolated Values at Standard Depths)

HORIZON: $31^{\circ}10'N$ $127^{\circ}08'W$ September 16, 1949 0739 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,122 m. Weather: drizzle
 Sea: rough Wind: 340° , force 3.

0	20.30	33.55	23.60	430.5	.0000	5.20	-
10	20.10	33.51	23.62	428.8	.0431	5.12	-
20	19.85	33.52	23.69	422.0	.0858	5.18	-
30	19.55	33.50	23.76	416.3	.1279	5.35	-
50	17.80	33.36	24.09	385.4	.2085	5.79	-
75	14.52	33.31	24.79	318.8	.2970	6.10	-
100	12.17	33.38	25.32	268.8	.3709	5.65	-
150	9.43	33.58	25.96	208.6	.491	4.13	-
200	8.38	33.83	26.32	174.9	.588	3.82	-
250	7.70	33.97	26.53	155.4	.671	3.21	-
300	7.05	33.99	26.64	145.7	.747	2.56	-
400	5.90	33.96	26.77	134.0	.888	1.41	-
500	5.25	34.13	26.98	114.7	1.013	0.77	-
600	4.80	34.27	27.14	100.0	1.121	0.57	-
700	4.50	34.35	27.24	91.2	1.218	0.54	-
800	4.23	34.39	27.30	86.2	1.308	0.51	-
1000	3.75	34.44	27.39	78.6	1.474	0.69	-

STATION 901 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}40'N$ $118^{\circ}10'W$ September 16, 1949 1518 GCT Wire angle: 3°
 Sounding: missing Depth of observation: 1,166 m. Weather: overcast
 Sea: moderate Wind: variable, direction missing, force 2.

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	19.70	33.68	23.85	406.2	.0000	5.52	0.58
10	19.15	33.68	24.00	393.1	.0401	5.44	0.56
20	17.85	33.58	24.24	370.0	.0784	5.79	0.60
30	15.00	33.47	24.81	315.6	.1128	5.75	0.66
50	11.99	33.31	25.30	269.5	.1716	5.36	1.06
75	10.53	33.49	25.70	231.8	.2347	4.52	1.50
100	9.82	33.55	25.87	216.1	.2910	3.72	1.74
150	9.07	34.05	26.39	168.1	.388	2.60	2.26
200	8.82	34.15	26.50	157.7	.470	1.75	2.47
250	8.61	34.20	26.57	151.9	.548	1.29	2.63
300	8.32	34.23	26.64	146.2	.623	1.12	2.73
400	6.96	34.23	26.84	128.1	.761	0.87	2.84
500	6.28	34.33	27.01	112.9	.883	0.52	3.02
600	5.72	34.40	27.13	102.0	.991	0.30	3.13
700	5.19	34.42	27.22	94.5	1.090	0.37	3.14
800	4.76	34.44	27.28	88.8	1.183	0.46	3.14
1000	4.04	34.48	27.39	79.1	1.353	0.61	3.12

STATION 902 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}22'N$ $118^{\circ}50'W$ September 16, 1949 0953 GCT Wire angle: 0°
 Sounding: missing Depth of observation: 1,170 m. Weather: overcast
 Sea: rough Wind: 350° , force 3.

0	18.50	33.73	24.20	373.5	.0000	5.15	0.61
10	18.18	33.71	24.26	367.7	.0372	5.30	0.60
20	18.18	33.70	24.25	368.8	.0742	5.34	0.59
30	18.12	33.70	24.27	367.7	.1112	5.45	0.62
50	12.23	33.30	25.25	274.6	.1757	5.65	0.94
75	11.50	33.40	25.46	254.6	.2422	4.65	1.42
100	9.56	33.62	25.97	206.6	.3002	3.80	1.81
150	9.11	33.89	26.25	180.6	.398	3.13	2.29
200	8.25	34.05	26.51	156.5	.483	2.53	2.41
250	7.53	34.06	26.63	146.4	.559	1.97	2.65
300	7.08	34.10	26.72	137.9	.631	1.43	2.83
400	6.58	34.27	26.92	120.0	.761	0.65	3.08
500	6.03	34.30	27.02	111.8	.877	0.44	3.25
600	5.54	34.34	27.11	103.9	.986	0.38	3.35
700	5.12	34.38	27.19	96.6	1.087	0.38	3.37
800	4.74	34.43	27.27	89.3	1.181	0.40	3.38
1000	4.13	34.50	27.40	78.7	1.351	0.56	3.36

STATION 903 (Interpolated Values at Standard Depths)

CREST: $32^{\circ}05'N$ $119^{\circ}32'W$ September 16, 1949 0420 GCT Wire angle: 18°
 Sounding: missing Depth of observation: 1,106 m. Weather: overcast
 Sea: moderate Wind: 320° , 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)	$P_{O_2 - P}$ (μ g at/L)
0	19.00	33.75	24.09	384.0	.0000	5.37	0.60
10	18.28	33.75	24.27	367.0	.0377	5.11	0.56
20	18.17	33.77	24.31	363.5	.0744	5.07	0.58
30	18.02	33.76	24.34	361.0	.1107	5.00	0.70
50	11.51	33.65	25.65	236.0	.1707	4.39	1.54
75	9.63	33.75	26.06	197.8	.2253	3.17	2.00
100	9.07	33.92	26.28	176.7	.2724	2.50	2.21
150	8.23	34.09	26.55	152.6	.355	1.84	2.50
200	7.48	34.18	26.73	135.8	.428	1.37	2.67
250	7.30	34.25	26.81	129.1	.495	1.04	2.77
300	7.08	34.30	26.88	123.1	.558	0.78	2.87
400	6.55	34.33	26.97	115.3	.678	0.50	3.04
500	6.05	34.33	27.04	109.9	.792	0.32	3.07
600	5.58	34.36	27.12	102.9	.899	0.30	3.13
700	5.16	34.39	27.20	96.3	1.000	0.32	3.20
800	4.78	34.42	27.26	90.6	1.094	0.36	3.23
1000	4.14	34.48	27.38	80.3	1.267	0.53	3.24

STATION 904 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}46'N$ $120^{\circ}15'W$ September 15, 1949 1955, 2118 GCT Wire angle:
 $20^{\circ}, 32^{\circ}$ Sounding: missing Depth of observation: 1,218, 3,210 m.
 Weather: drizzle Sea: very rough Wind: 320° , force 4.

0	18.30	33.40	24.00	392.7	.0000	5.65	0.59
10	17.67	33.39	24.14	379.2	.0388	5.71	0.56
20	17.63	33.41	24.16	377.3	.0767	5.47	0.56
30	17.53	33.41	24.19	375.3	.1145	5.41	0.57
50	16.05	33.36	24.50	346.3	.1870	5.43	0.60
75	12.75	33.34	25.18	281.9	.2660	5.48	0.40
100	11.07	33.44	25.57	245.0	.3323	4.86	1.24
150	9.24	33.80	26.16	189.3	.442	3.25	2.08
200	8.52	34.04	26.46	161.4	.530	2.30	2.45
250	7.96	34.12	26.61	148.0	.608	1.81	2.61
300	7.52	34.18	26.72	138.1	.680	1.41	2.73
400	6.85	34.25	26.87	125.2	.813	0.79	2.96
500	6.22	34.30	26.99	114.3	.933	0.52	3.17
600	5.62	34.34	27.10	105.0	1.044	0.41	3.22
700	5.11	34.39	27.20	95.8	1.145	0.41	3.21
800	4.69	34.43	27.28	88.6	1.238	0.44	3.20
1000	4.03	34.50	27.41	77.4	1.406	0.57	3.16
1200	3.51	34.55	27.50	69.3	1.555	0.86	3.18
1500	2.84	34.60	27.60	59.7	1.751	1.30	3.07
2000	2.12	34.63	27.69	51.5	2.033	1.92	2.87
2500	1.81	34.65	27.73	47.9	2.286	2.35	2.71
3000	1.70	34.65	27.74	48.1	2.531	2.63	2.63

STATION 905 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}25'N$ $120^{\circ}53'W$ September 15, 1949 1359 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,278 m. Weather: fog in patches
 Sea: rough Wind: 320° , force 4.

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	18.30	33.48	24.06	386.9	.0000	-	0.72
10	17.76	33.46	24.17	376.0	.0383	-	0.59
20	17.77	33.45	24.16	377.5	.0761	-	0.58
30	17.74	33.44	24.16	377.9	.1140	-	0.59
50	14.24	33.40	24.92	305.8	.1828	-	0.66
75	11.82	33.28	25.31	269.2	.2550	-	0.98
100	10.68	33.41	25.61	240.6	.3192	-	1.48
150	9.09	33.72	26.12	192.8	.428	-	2.20
200	8.52	34.00	26.43	164.3	.518	-	2.43
250	7.97	34.11	26.60	148.9	.597	-	2.60
300	7.50	34.16	26.71	139.3	.670	-	2.84
400	6.80	34.22	26.85	126.8	.804	-	3.18
500	6.16	34.28	26.99	115.0	.926	-	3.25
600	5.54	34.34	27.11	103.9	1.036	-	3.32
700	5.04	34.40	27.22	94.1	1.136	-	3.38
800	4.59	34.44	27.30	86.6	1.227	-	3.42
1000	3.94	34.49	27.41	77.3	1.393	-	3.44

STATION 906 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}06'N$ $121^{\circ}34'W$ September 15, 1949 0837 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,270 m. Weather: cloudy
 Sea: very rough Wind: 340° , force 4.

0	19.00	33.48	23.88	403.5	.0000	-	0.77
10	18.71	33.49	23.96	396.3	.0402	-	0.62
20	18.71	33.45	23.93	399.5	.0801	-	0.59
30	18.64	33.41	23.92	401.1	.1203	-	0.58
50	15.05	33.29	24.66	330.2	.1938	-	0.61
75	12.59	33.26	25.15	284.8	.2711	-	0.84
100	11.17	33.36	25.49	252.6	.3387	-	1.20
150	9.26	33.53	25.95	209.6	.455	-	1.98
200	8.58	33.91	26.35	171.7	.551	-	2.39
250	7.59	34.00	26.57	151.6	.632	-	2.57
300	7.06	34.07	26.70	139.8	.706	-	2.85
400	6.58	34.17	26.84	127.5	.840	-	3.29
500	5.99	34.22	26.96	117.1	.964	-	3.44
600	5.43	34.26	27.06	108.6	1.078	-	3.46
700	4.93	34.32	27.17	98.6	1.182	-	3.47
800	4.52	34.37	27.25	90.9	1.278	-	3.48
1000	3.87	34.45	27.38	79.3	1.450	-	3.46

STATION 907 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}47'N$ $122^{\circ}14'W$ September 15, 1949 0300 GCT Wire angle: 25°
 Sounding: missing Depth of observation: 1,201 m. Weather: cloudy
 Sea: very rough Wind: 350° , force 4.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	10^5	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (mg at/L)
0	19.00	33.26	23.72	419.5	.0000	-	0.63
10	18.37	33.37	23.96	396.7	.0410	-	0.45
20	18.28	33.32	23.94	398.7	.0809	-	0.48
30	18.09	33.32	23.98	394.7	.1207	-	0.50
50	14.85	33.34	24.75	321.8	.1927	-	0.49
75	12.07	33.18	25.18	281.4	.2686	-	0.80
100	10.78	33.25	25.47	254.0	.3359	-	1.07
150	9.51	33.71	26.05	200.2	.450	-	1.90
200	8.71	33.93	26.35	172.3	.544	-	2.22
250	8.03	34.01	26.51	157.2	.627	-	2.41
300	7.35	34.03	26.63	146.7	.704	-	2.63
400	6.34	34.13	26.84	127.2	.842	-	2.96
500	5.72	34.25	27.02	111.7	.962	-	3.11
600	5.19	34.30	27.12	102.4	1.020	-	3.14
700	4.78	34.32	27.18	96.8	1.120	-	3.15
800	4.43	34.34	27.24	92.3	1.216	-	3.16
1000	3.87	34.44	27.38	80.0	1.390	-	3.15

STATION 908 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}25'N$ $122^{\circ}56'W$ September 14, 1949 2114 GCT Wire angle: 25°
 Sounding: missing Depth of observation: 1,190 m. Weather: cloudy
 Sea: rough Wind: 340° , force 4.

0	19.30	33.22	23.61	429.1	.0000	-	0.51
10	18.72	33.28	23.80	411.7	.0422	-	0.45
20	18.35	33.25	23.87	405.4	.0832	-	0.44
30	18.02	33.25	23.96	397.3	.1235	-	0.45
50	17.25	33.33	24.20	375.0	.2012	-	0.46
75	14.55	33.44	24.89	309.7	.2872	-	0.39
100	13.05	33.42	25.18	282.2	.3617	-	0.51
150	10.20	33.43	25.75	228.3	.490	-	1.36
200	8.62	33.82	26.28	179.2	.593	-	2.05
250	7.87	34.02	26.55	154.2	.677	-	2.34
300	7.28	34.06	26.66	143.4	.752	-	2.56
400	6.44	34.13	26.83	128.5	.889	-	2.90
500	5.84	34.28	27.03	110.8	1.009	-	3.09
600	5.31	34.34	27.14	101.0	1.116	-	3.18
700	4.88	34.37	27.21	94.1	1.215	-	3.21
800	4.51	34.40	27.28	88.7	1.307	-	3.22
1000	3.89	34.46	27.39	78.8	1.477	-	3.16

STATION 909 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}12'N$ $123^{\circ}37'W$ September 14, 1949 1625 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,108 m. Weather: cloudy
 Sea: rough Wind: 350° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	Δ D (dyn.m.)	O ₂ (ml/L)	P O ₄ -P (µg at/L)
0	19.70	33.42	23.66	425.1	.0000	-	0.52
10	19.11	33.42	23.81	411.0	.0420	-	0.51
20	19.12	33.42	23.81	411.3	.0832	-	0.48
30	19.07	33.43	23.83	409.9	.1245	-	0.46
50	18.27	33.45	24.04	389.8	.2048	-	0.43
75	15.13	33.53	24.83	315.1	.2934	-	0.42
100	14.20	33.58	25.07	293.1	.3700	-	0.47
150	11.03	33.54	25.65	237.9	.504	-	1.04
200	9.01	33.65	26.08	197.8	.613	-	1.58
250	8.02	33.88	26.41	166.9	.705	-	1.96
300	7.31	33.98	26.60	149.8	.785	-	2.26
400	6.39	34.13	26.84	127.8	.925	-	2.75
500	5.77	34.22	26.99	114.5	1.047	-	3.06
600	5.22	34.27	27.09	105.0	1.158	-	3.13
700	4.76	34.31	27.18	97.2	1.260	-	3.14
800	4.38	34.35	27.25	90.6	1.355	-	3.15
1000	3.81	34.44	27.38	79.4	1.527	-	3.12

STATION 910 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}43'N$ $124^{\circ}16'W$ September 14, 1949 1123 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,133 m. Weather: overcast
 Sea: rough Wind: 340° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	Δ D (dyn.m.)	O ₂ (ml/L)	P O ₄ -P (µg at/L)
0	19.90	33.53	23.69	422.0	.0000	-	0.41
10	19.35	33.51	23.82	410.2	.0418	-	0.43
20	19.28	33.56	23.87	405.4	.0827	-	0.43
30	19.22	33.63	23.94	399.0	.1231	-	0.43
50	18.74	33.69	24.11	383.6	.2018	-	0.44
75	15.80	33.70	24.81	316.9	.2898	-	0.40
100	14.97	33.78	25.06	294.0	.3666	-	0.42
150	11.99	33.60	25.53	250.3	.504	-	0.72
200	9.75	33.63	25.94	211.0	.620	-	1.39
250	8.75	33.87	26.29	178.3	.718	-	1.86
300	7.77	33.99	26.54	155.7	.802	-	2.34
400	6.42	34.09	26.80	131.2	.947	-	3.11
500	5.78	34.22	26.99	114.6	1.071	-	3.19
600	5.24	34.29	27.10	103.8	1.181	-	3.26
700	4.78	34.35	27.21	94.5	1.281	-	3.35
800	4.41	34.40	27.29	87.5	1.373	-	3.38
1000	3.84	34.48	27.41	76.8	1.539	-	3.38

STATION 911 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}34'N$ $124^{\circ}50'W$ September 14, 1949 0426, 0553 GCT Wire angle:
 20° , 18° Sounding: missing Depth of observation: 1,088, 3,346 m.
 Weather: overcast Sea: rough Wind: 360° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	PO_4-P (µg at/L)
0	20.30	33.78	23.77	413.8	.0000	-	0.48
10	19.83	33.73	23.86	406.2	.0412	-	0.50
20	19.79	33.77	23.90	402.4	.0818	-	0.47
30	19.70	33.77	23.92	400.6	.1221	-	0.45
50	19.10	33.76	24.07	387.3	.2012	-	0.43
75	16.21	33.76*	24.77	321.4	.2903	-	0.39*
100	14.99	33.74	25.02	297.4	.3682	-	0.41
150	12.33	33.75	25.58	245.7	.505	-	0.90
200	10.00	33.69	25.95	210.6	.620	-	1.46
250	9.06	33.98	26.33	174.9	.717	-	1.87
300	8.32	34.13	26.56	153.5	.800	-	1.32
400	7.11	34.24	26.83	129.5	.942	-	2.80
500	6.13	34.26	26.97	116.9	1.066	-	3.03
600	5.48	34.31	27.09	105.3	1.178	-	3.14
700	4.98	34.37	27.20	95.4	1.279	-	3.16
800	4.56	34.42	27.29	87.6	1.371	-	3.16
1000	3.94	34.50	27.42	76.5	1.537	-	3.29
1200	3.44	34.55	27.51	68.4	1.684	-	3.25
1500	2.82	34.58	27.59	61.0	1.881	-	3.23
2000	2.11	34.62	27.68	52.1	2.168	-	3.15
2500	1.82	34.64	27.72	48.6	2.424	-	2.86
3000	1.66	34.66	27.75	46.7	2.667	-	2.84

*Water sample lost on 75-meter bottle; retaken with deep cast.

STATION 1001 (Interpolated Values at Standard Depths)

CREST: $31^{\circ}19'N$ $116^{\circ}54'W$ September 11, 1949 1250 GCT Wire angle: 2°
 Sounding: missing Depth of observation: 884 m. Weather: cloudy
 Sea: rough Wind: 320° , 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	20.00	33.58	23.70	420.9	.0000	5.37	0.57
10	19.47	33.58	23.84	408.0	.0416	5.08	0.58
20	18.64	33.55	24.02	390.6	.0817	5.29	0.56
30	15.47	33.50	24.73	323.1	.1175	5.48	0.58
50	13.22	33.32	25.07	291.6	.1793	5.67	0.69
75	11.56	33.46	25.50	251.3	.2476	4.88	1.05
100	10.68	33.60	25.76	226.6	.3077	3.73	1.66
150	9.83	33.95	26.18	187.8	.412	2.66	2.14
200	9.21	34.07	26.38	169.8	.502	2.13	2.36
250	8.37	34.08	26.52	156.9	.584	1.82	2.57
300	7.57	34.09	26.64	145.4	.660	1.50	2.77
400	6.77	34.18	26.83	129.2	.799	0.87	3.16
500	6.17	34.28	26.99	115.1	.922	0.48	3.32
600	5.67	34.34	27.09	105.5	1.033	0.33	3.34
700	5.23	34.36	27.16	99.5	1.137	0.35	3.32
800	4.86	33.38	27.22	94.5	1.235	0.42	3.30
1000	(4.14)	(34.43)	(27.34)	(84.0)	(1.415)		

STATION 1002 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}58'N$ $117^{\circ}33'W$ September 11, 1949 1807 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,248 m. Weather: cloudy
 Sea: rough Wind: 320° , force 3.

0	19.89	33.53	23.69	421.6	.0000	5.19	0.60
10	19.49	33.60	23.85	406.9	.0416	5.20	0.60
20	18.60	33.57	24.05	388.1	.0815	5.51	0.63
30	17.19	33.52	24.35	359.4	.1190	5.80	0.64
50	13.35	33.45	25.14	284.5	.1837	6.10	0.67
75	11.07	33.42	25.55	245.8	.2504	4.80	1.24
100	10.26	33.63	25.86	217.2	.3086	3.68	1.83
150	9.45	33.98	26.27	179.3	.408	2.62	2.36
200	8.98	34.16	26.49	159.5	.494	2.03	2.53
250	8.48	34.28	26.66	143.8	.570	1.35	2.76
300	8.01	34.30	26.74	136.3	.641	1.17	2.80
400	7.19	34.27	26.84	128.2	.774	1.05	2.82
500	6.50	34.31	26.97	117.3	.898	0.57	3.12
600	5.89	34.34	27.07	108.2	1.012	0.40	3.38
700	5.34	34.38	27.17	99.5	1.116	0.41	3.40
800	4.82	34.41	27.25	91.9	1.213	0.43	3.41
1000	4.01	34.47	27.39	79.5	1.386	0.56	3.46

STATION 1003 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}37'N$ $118^{\circ}11'W$ September 11, 1949 2241 GCT Wire angle: 15°
 Sounding: missing Depth observation: 1,135 m. Weather: partly cloudy
 Sea: rough Wind: 320° , force 3-4.

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	20.50	33.75	23.70	421.0	.0000	5.28	0.58
10	20.45	33.73	23.70	421.5	.0423	4.85	0.54
20	20.11	33.75	23.80	411.9	.0841	5.07	0.51
30	19.55	33.66	23.88	404.9	.1251	5.43	0.51
50	14.52	33.48	24.92	305.5	.1965	5.92	0.73
75	11.57	33.42	25.46	254.5	.2669	4.95	1.17
100	10.49	33.70	25.87	215.9	.3261	3.46	1.81
150	9.28	33.97	26.29	177.1	.425	2.50	2.15
200	8.53	34.11	26.52	156.5	.509	2.20	2.37
250	7.58	34.09	26.64	144.8	.585	2.03	2.60
300	6.95	34.09	26.73	137.0	.656	1.68	2.84
400	6.29	34.19	26.90	121.9	.786	0.98	3.17
500	5.94	34.28	27.01	112.2	.904	0.48	3.24
600	5.48	34.35	27.12	102.4	1.013	0.35	3.24
700	5.02	34.40	27.22	93.9	1.112	0.41	3.24
800	4.63	34.44	27.30	87.2	1.203	0.43	3.23
1000	3.99	34.49	27.41	77.7	1.370	0.55	3.26

STATION 1004 (Interpolated Values at Standard Depths)

CREST: $30^{\circ}15'N$ $118^{\circ}50'W$ September 12, 1949 0426 GCT Wire angle: 13°
 Sounding: missing Depth of observation: 1,150 m. Weather: partly cloudy
 Sea: rough Wind: 320° , force 4.

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	20.80	33.86	23.70	420.7	.0000	5.35	0.48
10	20.15	33.84	23.86	405.8	.0415	5.09	0.53
20	20.11	33.85	23.88	404.6	.0822	5.92	0.53
30	20.01	33.84	23.90	403.3	.1227	5.87	0.52
50	12.20	33.55	25.45	255.7	.1890	5.19	1.06
75	10.87	33.60	25.73	229.1	.2499	4.00	1.60
100	9.81	33.85	26.10	194.0	.3031	2.71	2.12
150	9.21	34.07	26.38	169.0	.395	2.35	2.30
200	8.03	33.96	26.47	160.1	.477	2.33	2.38
250	7.79	34.15	26.66	143.4	.554	1.37	2.74
300	7.54	34.26	26.78	132.4	.623	0.94	3.06
400	6.68	34.20	26.86	126.4	.754	0.61	3.27
500	6.12	34.30	27.01	113.1	.875	0.41	3.36
600	5.58	34.37	27.13	102.1	.983	0.38	3.42
700	5.09	34.37	27.19	96.9	1.084	0.45	3.46
800	4.63	34.37	27.24	92.4	1.179	0.51	3.49
1000	3.97	34.45	27.37	80.4	1.354	0.65	3.51

STATION 1005 (Interpolated values at Standard Depths)

CREST: $29^{\circ}53'N$ $119^{\circ}29'W$ September 12, 1949 0933 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,181 m. Weather: overcast
 Sea: rough Wind: 320° , force 4.

Depth (m)	T (°C)	S (‰)	‰t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (mg at/L)
0	19.70	33.58	23.78	413.4	.0000	5.30	0.63
10	19.12	33.58	23.93	399.6	.0408	5.39	0.60
20	19.10	33.59	23.94	398.7	.0809	5.44	0.58
30	19.07	33.58	23.94	399.0	.1209	5.75	0.58
50	14.66	33.33	24.78	319.2	.1931	6.03	0.61
75	12.76	33.43	25.25	275.3	.2678	5.81	0.78
100	11.79	33.55	25.53	249.2	.3338	5.40	1.06
150	9.50	33.62	25.98	206.7	.449	4.20	1.92
200	9.01	34.10	26.43	164.5	.542	2.27	2.48
250	8.60	34.24	26.61	148.8	.621	1.50	2.80
300	8.15	34.29	26.71	139.3	.694	1.10	3.02
400	7.11	34.32	26.89	123.6	.826	0.66	3.31
500	6.24	34.32	27.01	113.2	.946	0.44	3.46
600	5.56	34.35	27.12	103.4	1.055	0.36	3.54
700	5.03	34.39	27.21	94.8	1.155	0.37	3.58
800	4.59	34.43	27.29	87.3	1.247	0.44	3.60
1000	3.91	34.50	27.42	76.1	1.412	0.78	3.54

STATION 1006 (Interpolated values at Standard Depths)

CREST: $29^{\circ}31'N$ $120^{\circ}09'W$ September 12, 1949 1442 GCT Wire angle: 28°
 Sounding: missing Depth of observation: 1,044 m. Weather: partly cloudy
 Sea: rough Wind: 340° , force 4.

Depth (m)	T (°C)	S (‰)	‰t (mg/cm³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$P_{O_2 - P}$ (mg at/L)
0	20.10	33.64	23.72	419.1	.0000	5.45	0.66
10	19.40	33.62	23.89	403.5	.0413	5.30	0.62
20	19.40	33.62	23.89	403.8	.0818	5.34	0.62
30	19.42	33.63	23.89	404.0	.1224	5.40	0.59
50	19.40	33.65	23.91	402.6	.2034	5.35	0.57
75	15.37	33.57	24.81	317.1	.2939	6.05	0.59
100	13.85	33.59	25.15	285.4	.3697	5.60	0.66
150	10.84	33.56	25.70	233.2	.500	4.90	1.32
200	9.05	33.76	26.16	190.2	.607	3.91	1.92
250	8.00	34.02	26.53	156.0	.694	3.00	2.36
300	7.25	34.05	26.66	143.8	.769	2.15	2.72
400	6.37	34.14	26.85	126.8	.906	0.97	3.20
500	5.69	34.26	27.03	110.5	1.026	0.59	3.42
600	5.13	34.31	27.13	101.0	1.132	0.45	3.51
700	4.69	34.36	27.23	92.7	1.230	0.45	3.53
800	4.32	34.41	27.31	85.8	1.320	0.58	3.53
1000	3.81	34.52	27.45	73.5	1.481	0.98	3.44

STATION 1007 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}10'N$ $120^{\circ}48'W$ September 12, 1949 1938 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,109 m. Weather: partly cloudy
 Sea: 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	20.10	33.68	23.75	416.1	.0000	5.23	0.55
10	19.68	33.68	23.86	405.7	.0412	5.23	0.58
20	19.60	33.70	23.90	402.9	.0818	5.32	0.54
30	19.58	33.78	23.96	397.0	.1220	5.34	0.52
50	19.61	33.95	24.08	385.9	.2007	5.40	0.52
75	15.67	33.68	24.83	315.4	.2883	5.90	0.55
100	13.84	33.59	25.15	285.3	.3644	5.52	0.65
150	11.57	33.60	25.60	242.9	.497	4.52	1.22
200	9.63	33.83	26.12	194.2	.607	3.11	2.05
250	8.54	33.98	26.41	167.2	.698	2.74	2.22
300	7.73	34.09	26.62	147.8	.778	2.30	2.49
400	6.65	34.22	26.87	124.6	.915	1.06	3.06
500	5.98	34.30	27.03	111.1	1.034	0.56	3.27
600	5.41	34.36	27.14	100.9	1.141	0.35	3.32
700	4.93	34.42	27.25	91.4	1.238	0.35	3.30
800	4.54	34.46	27.32	84.6	1.327	0.51	3.30
1000	3.90	34.52	27.44	74.5	1.488	0.79	-

STATION 1008 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}50'N$ $121^{\circ}20'W$ September 13, 1949 0030 GCT Wire angle: 23°
 Sounding: missing Depth of observation: 1,132 m. Weather: partly cloudy
 Sea: 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	20.40	33.89	23.83	408.3	.0000	5.30	0.53
10	19.91	33.89	23.96	396.3	.0404	5.05	0.52
20	19.75	33.92	24.02	390.6	.0799	5.22	0.53
30	19.70	33.93	24.04	389.1	.1190	5.21	0.52
50	19.60	33.87	24.02	391.6	.1975	5.16	0.48
75	14.55	33.48	24.92	306.8	.2853	6.02	0.54
100	13.92	33.50	25.07	293.3	.3608	5.80	0.58
150	12.49	33.58	25.41	261.1	.500	5.25	0.86
200	10.03	33.67	25.93	212.5	.620	4.15	1.61
250	9.00	34.02	26.37	171.1	.716	3.06	2.10
300	8.32	34.08	26.52	157.3	.799	1.20	2.48
400	7.45	34.17	26.72	139.4	.948	0.66	2.98
500	6.67	34.28	26.92	121.9	1.080	0.49	3.22
600	5.85	34.34	27.07	107.9	1.196	0.40	3.31
700	5.18	34.38	27.19	97.4	1.300	0.39	3.36
800	4.69	34.41	27.27	90.1	1.394	0.43	3.38
1000	4.02	34.45	27.37	81.0	1.567	0.58	3.38

STATION 1009 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}30'N$ $121^{\circ}50'W$ September 13, 1949 0534 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,164 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)	P_{O_4-P} (Mg at/L)
0	20.60	33.91	23.79	411.9	.0000	5.18	0.48
10	19.97	33.93	23.98	394.9	.0405	5.40	0.50
20	19.91	33.93	23.99	393.8	.0801	5.23	0.51
30	19.86	33.92	24.00	393.6	.1196	5.17	0.52
50	17.20	33.82	24.58	338.3	.1932	5.47	0.51
75	16.30	33.93	24.88	310.9	.2748	5.60	0.47
100	14.94	33.75	25.04	295.9	.3511	5.50	0.50
150	12.60	33.69	25.48	255.2	.490	4.77	1.01
200	10.01	33.77	26.01	204.9	.606	3.62	1.76
250	9.41	34.04	26.32	176.3	.702	2.45	2.26
300	9.05	34.24	26.54	156.5	.786	1.62	2.56
400	8.03	34.31	26.75	137.6	.934	0.80	3.00
500	6.71	34.35	26.97	117.3	1.062	0.56	3.14
600	5.79	34.36	27.09	105.6	1.175	0.45	3.18
700	5.13	34.37	27.18	98.1	1.278	0.44	3.21
800	4.76	34.38	27.23	93.3	1.374	0.47	3.23
1000	4.07	34.40	27.32	85.3	1.555	0.64	3.22

STATION 1010 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}12'N$ $122^{\circ}25'W$ September 13, 1949 1012 GCT Wire angle: 9°
 Sounding: missing Depth of observation: 1,168 m. Weather: partly cloudy
 Sea: slight Wind: 360° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm ³)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (Mg at/L)
0	20.40	33.87	23.82	409.8	.0000	5.25	0.42
10	20.00	33.89	23.94	398.7	.0406	5.10	0.39
20	20.00	33.89	23.94	399.1	.0806	5.15	0.40
30	19.94	33.88	23.94	398.6	.1207	5.21	0.41
50	18.93	33.82	24.16	378.5	.1988	5.41	0.42
75	15.33	33.60	24.84	314.2	.2858	5.74	0.47
100	14.51	33.60	25.02	298.0	.3629	5.45	0.49
150	12.54	33.49	25.33	268.8	.506	4.70	1.10
200	10.62	33.83	25.95	210.5	.626	2.50	2.12
250	9.87	34.06	26.26	182.1	.725	2.20	2.36
300	9.20	34.16	26.45	164.9	.813	1.57	2.55
400	8.05	34.20	26.66	144.0	.968	0.86	3.00
500	7.02	34.24	26.84	129.8	1.106	0.52	3.19
600	6.15	34.27	26.98	117.0	1.231	0.36	3.30
700	5.46	34.31	27.10	106.2	1.344	0.35	3.33
800	4.91	34.34	27.18	98.2	1.447	0.43	3.34
1000	4.05	34.41	27.33	84.4	1.631	0.68	3.34

STATION 1011 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}55'N$ $123^{\circ}07'W$ September 13, 1949 1353 GCT Wire angle: 6°
 Sounding: missing Depth of observation: 1,166 m. Weather: partly cloudy
 Sea: rough Wind: 350° , force 3.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	$\sigma-t$ (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (Mg at/L)
0	20.80	33.95	23.77	414.1	.0000	5.36	0.39
10	20.07	33.96	23.97	395.3	.0406	5.26	0.38
20	20.02	33.94	23.97	395.8	.0803	5.26	0.42
30	19.95	33.90	23.96	397.4	.1202	5.32	0.42
50	19.01	33.87	24.18	377.0	.1980	5.53	0.39
75	16.00	33.71	24.78	320.5	.2857	5.85	0.38
100	15.53	33.91	25.04	296.2	.3632	5.65	0.39
150	13.37	33.71	25.34	268.5	.505	3.75	0.70
200	10.51	33.62	25.81	224.3	.629	2.16	1.64
250	9.30	33.88	26.21	186.1	.733	1.37	1.98
300	8.57	34.07	26.48	161.8	.820	0.87	2.31
400	7.84	34.28	26.75	137.0	.971	0.32	3.01
500	6.89	34.36	26.95	119.0	1.100	0.37	3.21
600	6.01	34.38	27.08	107.2	1.214	0.44	3.24
700	5.38	34.39	27.17	99.2	1.318	0.49	3.24
800	4.86	34.40	27.24	93.0	1.415	0.54	3.24
1000	4.06	34.43	27.35	83.0	1.593	0.68	3.22

STATION 1101 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}35'N$ $116^{\circ}07'W$ September 10, 1949 2359 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,120 m. Weather: cloudy
 Sea: rough Wind: 350° , 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	22.30	33.84	23.28	461.3	.0000	5.02	0.51
10	21.60	33.82	23.45	444.5	.0455	5.00	0.54
20	20.04	33.72	23.79	412.5	.0885	5.15	0.54
30	19.05	33.69	24.03	390.5	.1288	5.49	0.55
50	16.91	33.63	24.50	345.8	.2028	5.72	0.55
75	14.17	33.58	25.07	292.0	.2830	5.45	0.70
100	12.03	33.52	25.46	255.9	.3519	5.12	1.06
150	10.03	33.70	25.95	209.4	.469	3.28	2.10
200	9.17	33.95	26.29	178.0	.566	2.69	2.36
250	8.46	34.06	26.49	160.0	.652	2.38	2.51
300	7.83	34.12	26.63	147.1	.729	1.86	2.71
400	6.99	34.21	26.82	129.9	.869	0.87	3.10
500	6.36	34.29	26.97	116.9	.993	0.55	3.35
600	5.81	34.35	27.08	106.7	1.106	0.45	3.46
700	5.34	34.39	27.17	98.8	1.210	0.37	3.52
800	4.93	34.42	27.25	92.5	1.306	0.40	3.54
1000	4.19	34.46	27.36	82.3	1.483	0.60	3.52

STATION 1102 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}15'N$ $116^{\circ}43'W$ September 10, 1949 1607, 1731, 1820 GCT
 Wire angle: $22^{\circ}, 20^{\circ}, 20^{\circ}$ Sounding: missing Depth of observation: 1,227, 1,410, 3,357 m. Weather: cloudy Sea: rough Wind: 340° , force 3.

0	22.30	33.77	23.22	466.4	.0000	5.10	0.53
10	21.46	33.77	23.46	444.4	.0457	5.01	0.50
20	20.43	33.72	23.69	422.1	.0892	5.10	0.53
30	19.05	33.61	23.97	396.4	.1303	5.70	0.54
50	16.79	33.55	24.47	348.7	.2052	5.96	0.55
75	14.47	33.54	24.98	300.9	.2868	5.92	0.57
100	13.34	33.49	25.18	282.9	.3603	5.68	0.66
150	9.97	33.56	25.85	220.6	.487	4.65	1.76
200	9.40	34.03	26.31	175.9	.587	2.47	2.37
250	9.32	34.26	26.51	158.6	.671	1.51	2.73
300	9.04	34.33	26.61	149.9	.749	1.01	2.95
400	8.12	34.35	26.77	136.0	.893	0.55	3.19
500	7.08	34.34	26.91	123.0	1.023	0.40	3.33
600	6.06	34.36	27.06	109.1	1.140	0.40	3.42
700	5.33	34.38	27.17	99.3	1.246	0.40	3.49
800	4.89	34.41	27.24	92.5	1.343	0.41	3.54
1000	4.26	34.47	27.36	82.4	1.519	0.54	3.60
1200	3.68	34.52	27.46	73.3	1.677	0.76	3.54
1500	2.93	34.57	27.57	63.0	1.884	1.18	3.35
2000	2.18	34.62	27.68	52.8	2.178	1.88	3.18
2500	1.83	34.63	27.71	49.4	2.438	2.45	3.00
3000	1.74	34.63	27.72	50.1	2.692	2.70	2.95

STATION 1103 (Interpolated Values at Standard Depths)

CREST: $29^{\circ}02'N$ $117^{\circ}20'W$ September 10, 1949 1137 GCT Wire angle: 12°
 Sounding: missing Depth of observation: 1,149 m. Weather: partly cloudy
 Sea: moderate Wind: 360° , force 2.

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} (μ g at/L)
0	22.00	33.71	23.26	462.8	.0000	5.15	0.54
10	21.08	33.71	23.51	439.4	.0453	5.20	0.55
20	20.13	33.66	23.73	418.9	.0884	5.26	0.54
30	19.32	33.63	23.91	401.5	.1296	5.35	0.51
50	17.24	33.59	24.39	356.2	.2057	5.70	0.51
75	13.75	33.48	25.08	290.9	.2870	5.90	0.60
100	12.51	33.50	25.35	266.2	.3571	5.40	0.94
150	10.78	33.73	25.85	219.4	.479	4.93	1.92
200	9.74	34.06	26.28	179.0	.580	2.02	2.48
250	9.21	34.19	26.47	161.9	.665	1.57	2.80
300	8.78	34.26	26.60	150.9	.744	1.45	2.99
400	7.70	34.32	26.80	132.3	.887	1.19	3.21
500	6.68	34.32	26.95	118.8	1.014	0.58	3.32
600	5.93	34.33	27.05	109.6	1.129	0.40	3.38
700	5.35	34.38	27.17	99.5	1.234	0.40	3.42
800	4.86	34.43	27.26	90.8	1.330	0.45	3.44
1000	4.06	34.48	27.39	79.3	1.502	0.57	3.45

STATION 1104 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}49'N$ $117^{\circ}58'W$ September 10, 1949 0630 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 751 m. Weather: cloudy
 Sea: rough Wind: 360° , 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} (μ g at/L)
0	21.90	33.69	23.27	461.7	.0000	5.25	0.48
10	21.25	33.75	23.50	440.8	.0453	5.10	0.48
20	20.75	33.73	23.62	429.6	.0890	5.08	0.46
30	20.05	33.72	23.79	413.0	.1313	5.48	0.45
50	13.38	33.55	25.21	277.8	.2007	6.61	0.68
75	10.78	33.62	25.76	226.2	.2641	3.45	1.67
100	10.27	33.69	25.90	213.0	.3193	2.90	2.24
150	9.50	34.01	26.28	177.9	.418	2.15	2.45
200	8.89	34.14	26.48	159.6	.503	1.59	2.65
250	8.37	34.29	26.68	141.5	.579	1.19	2.88
300	7.88	34.35	26.80	130.7	.647	0.91	3.07
400	7.00	34.37	26.94	118.4	.773	0.53	3.32
500	6.29	34.38	27.05	109.2	.887	0.34	3.44
600	5.69	34.39	27.13	102.1	.994	0.29	3.48
700	5.17	34.42	27.22	94.2	1.093	0.34	3.50

STATION 1105 (Interpolated Values at Standard Depths)

CREST: $28^{\circ}12'N$ $118^{\circ}36'W$ September 9, 1949 1808 GCT Wire angle: 15°
 Sounding: missing Depth of observation: 1,146 m. Weather: fog
 Sea: rough Wind: 360° , force 3.

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	21.40	33.82	23.51	439.0	.0000	5.12	0.51
10	20.60	33.82	23.73	418.7	.0431	5.11	0.52
20	20.20	33.80	23.82	410.4	.0847	5.16	0.52
30	19.82	33.80	23.91	401.4	.1254	5.41	0.51
50	16.75	33.82	24.69	328.2	.1988	5.72	0.48
75	15.58	33.69	24.86	312.7	.2793	5.55	0.53
100	14.40	33.63	25.06	293.5	.3556	5.37	0.65
150	11.00	33.53	25.65	238.1	.489	4.27	1.48
200	9.65	33.76	26.06	199.6	.600	3.31	2.03
250	8.75	33.96	26.37	171.6	.693	2.77	2.32
300	8.01	34.05	26.55	154.9	.775	2.14	2.63
400	7.12	34.18	26.78	134.1	.921	0.87	3.05
500	6.69	34.33	26.96	118.2	1.048	0.44	3.27
600	6.15	34.36	27.05	110.3	1.163	0.36	3.40
700	5.46	34.35	27.13	103.5	1.271	0.38	3.48
800	4.87	34.34	27.19	97.6	1.373	0.41	3.52
1000	4.11	34.38	27.30	87.4	1.560	0.56	3.56

STATION 1106 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}41'N$ $119^{\circ}14'W$ September 9, 1949 1210 GCT Wire angle: 4°
 Sounding: missing Depth of observation: 1,182 m. Weather: low fog
 Sea: rough Wind: 060° , force 2.

0	21.20	33.87	23.60	430.2	.0000	5.12	0.45
10	20.65	33.87	23.75	416.4	.0425	4.95	0.46
20	20.57	33.86	23.77	415.3	.0842	5.00	0.46
30	20.45	33.80	23.75	417.1	.1260	5.22	0.45
50	17.70	33.73	24.39	356.3	.2038	5.50	0.49
75	15.48	33.72	24.90	308.2	.2873	5.65	0.47
100	14.58	33.64	25.03	296.4	.3508	5.68	0.50
150	12.25	33.60	25.48	255.1	.490	4.90	0.98
200	9.72	33.85	26.12	194.3	.603	3.45	1.99
250	8.96	34.11	26.45	163.8	.693	2.50	2.44
300	8.34	34.23	26.64	146.6	.771	1.74	2.72
400	7.37	34.33	26.86	126.3	.909	0.69	3.09
500	6.55	34.37	27.01	113.4	1.030	0.39	3.31
600	5.85	34.40	27.12	103.5	1.139	0.35	3.46
700	5.34	34.43	27.20	96.0	1.240	0.38	3.55
800	4.90	34.45	27.27	89.8	1.333	0.44	3.60
1000	4.18	34.50	27.39	79.3	1.504	0.59	3.60

STATION 1107 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}20'N$ $119^{\circ}52'W$ September 9, 1949 0611 GCT Wire angle: 22°
 Sounding: missing Depth of observation: 1,227 m. Weather: drizzle
 Sea: very rough Wind: 360° , 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	21.20	33.89	23.62	428.8	.0000	5.25	0.51
10	20.61	33.89	23.78	413.8	.0423	5.07	0.50
20	20.61	33.86	23.75	416.5	.0840	5.08	0.49
30	20.58	33.87	23.77	415.1	.1257	5.34	0.49
50	17.51	33.95	24.61	336.0	.2012	5.70	0.50
75	16.35	33.84	24.80	318.6	.2835	5.55	0.52
100	14.71	33.71	25.06	294.1	.3606	5.52	0.59
150	11.95	33.53	25.48	254.9	.499	4.87	1.00
200	9.80	33.99	26.22	185.2	.610	2.90	2.17
250	9.10	34.18	26.48	160.7	.697	1.73	2.60
300	8.53	34.25	26.62	147.9	.774	1.36	2.82
400	7.57	34.32	26.82	130.0	.914	1.08	3.00
500	6.71	34.36	26.98	116.6	1.039	0.73	3.15
600	5.99	34.39	27.10	105.9	1.151	0.53	3.32
700	5.41	34.43	27.20	96.8	1.253	0.45	3.46
800	4.93	34.47	27.29	88.8	1.347	0.43	3.50
1000	4.19	34.54	27.42	76.4	1.514	0.57	3.51

STATION 1108 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}58'N$ $120^{\circ}29'W$ September 9, 1949 0002 GCT Wire angle: 28°
 Sounding: missing Depth of observation: 1,120 m. Weather: overcast
 Sea: very rough Wind: 360° , force 5-6.

0	21.50	33.83	23.49	440.9	.0000	5.17	0.47
10	20.94	33.87	23.67	423.8	.0434	5.32	0.45
20	20.94	33.87	23.67	424.2	.0860	5.01	0.48
30	20.87	33.84	23.67	424.9	.1286	5.02	0.46
50	18.35	33.75	24.25	369.9	.2085	5.30	0.44
75	15.15	33.58	24.87	311.8	.2942	5.90	0.47
100	13.99	33.55	25.09	291.1	.3700	5.87	0.55
150	11.24	33.58	25.65	238.7	.503	4.52	1.40
200	9.63	33.80	26.10	196.4	.613	3.22	2.08
250	8.91	34.14	26.48	160.8	.703	2.18	2.52
300	8.37	34.29	26.68	142.4	.779	1.35	2.82
400	7.40	34.32	26.85	127.6	.915	0.57	3.19
500	6.55	34.34	26.98	115.8	1.038	0.40	3.38
600	5.87	34.38	27.10	105.1	1.150	0.40	3.49
700	5.31	34.41	27.19	96.9	1.252	0.42	3.55
800	4.83	34.44	27.27	89.8	1.346	0.49	3.58
1000	4.11	34.49	27.39	79.2	1.517	0.66	3.58

STATION 1109 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}35'N$ $121^{\circ}06'W$ September 8, 1949 1748 GCT Wire angle: 20°
 Sounding: missing Depth of observation: 1,218 m. Weather: cloudy
 Sea: rough Wind: 360° , force 5.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	σ_2 (ml/L)	$P_{O_2}-P$ (Mg at/L)
0	21.80	34.07	23.59	431.5	.0000	5.07	0.48
10	21.21	34.07	23.75	416.5	.0426	5.10	0.48
20	21.20	34.07	23.75	416.5	.0844	5.06	0.46
30	21.11	34.07	23.78	414.5	.1261	5.32	0.44
50	18.10	34.13	24.60	336.7	.2016	5.61	0.45
75	16.99	34.00	24.77	321.1	.2843	5.63	0.47
100	15.86	33.36	24.92	307.0	.3633	5.62	0.53
150	14.69	33.85	25.18	284.6	.512	4.92	0.72
200	10.13	33.68	25.92	213.4	.638	3.66	1.72
250	9.18	34.05	26.37	171.7	.735	2.63	2.24
300	8.48	34.18	26.58	152.1	.816	1.87	2.61
400	7.33	34.24	26.80	132.6	.960	0.96	3.08
500	6.37	34.29	26.97	116.9	1.086	0.50	3.32
600	5.68	34.34	27.09	105.8	1.198	0.40	3.43
700	5.14	34.37	27.18	97.6	1.301	0.44	3.50
800	4.68	34.40	27.26	90.8	1.396	0.50	3.55
1000	3.99	34.46	27.38	79.9	1.568	0.71	3.58

STATION 1110 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}13'N$ $121^{\circ}45'W$ September 8, 1949 1131 GCT Wire angle: 22°
 Sounding: missing Depth of observation: 1,214 m. Weather: partly cloudy
 Sea: very rough Wind: 340° , force 4.

0	21.90	34.09	23.58	432.6	.0000	5.12	0.45
10	21.26	34.11	23.77	414.8	.0425	4.80	0.42
20	21.26	34.08	23.74	417.3	.0843	5.10	0.40
30	21.21	33.95	23.66	425.8	.1266	5.17	0.40
50	19.15	33.85	24.12	382.0	.2078	5.40	0.44
75	16.80	34.01	24.82	316.1	.2956	5.59	0.45
100	15.60	33.75	24.90	309.5	.3743	5.49	0.51
150	12.75	34.05	25.73	231.6	.510	4.84	1.00
200	10.07	33.73	25.97	208.8	.621	3.74	1.77
250	8.93	34.03	26.39	169.3	.717	2.82	2.22
300	8.35	34.14	26.57	153.2	.798	2.06	2.58
400	7.39	34.25	26.80	132.5	.942	1.03	3.09
500	6.54	34.32	26.97	117.2	1.068	0.53	3.38
600	5.84	34.38	27.11	104.9	1.180	0.45	3.53
700	5.27	34.43	27.21	94.8	1.280	0.46	3.60
800	4.77	34.47	27.30	86.8	1.372	0.51	3.64
1000	4.04	34.51	27.41	76.9	1.538	0.68	3.66

STATION 1111 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}54'N$ $122^{\circ}18'W$ September 8, 1949 0354, 0541 GCT Wire angle:
 45° , 40° Sounding: missing Depth of observation: 1,074, 3,108 m.
 Weather: cloudy Sea: rough Wind: 350° , force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \sigma$	ΔD (dyn.m.)	O_2 (ml/L)	P_{O_2-P} mg at/L
0	22.80	34.16	23.37	452.0	.0000	5.25	0.46
10	21.09	34.12	23.82	409.8	.0433	5.01	0.46
20	21.07	34.18	23.87	405.3	.0842	5.00	0.46
30	21.01	34.17	23.88	404.7	.1248	5.06	0.46
50	20.08	34.14	24.10	384.1	.2041	5.42	0.46
75	16.70	33.96	24.81	317.6	.2923	5.61	0.48
100	15.60	34.03	25.11	289.1	.3686	5.45	0.48
150	14.00	34.00	27.43	259.6	.507	4.12	1.32
200	9.63	33.79	26.09	197.4	.622	3.30	1.95
250	8.83	33.97	26.36	172.2	.715	2.60	2.34
300	8.19	34.11	26.57	153.1	.797	2.01	2.66
400	7.22	34.25	26.82	130.3	.940	1.14	3.11
500	6.43	34.34	27.00	114.3	1.063	0.65	3.37
600	5.78	34.40	27.13	102.3	1.172	0.42	3.51
700	5.24	34.44	27.23	93.8	1.271	0.40	3.58
800	4.80	34.48	27.31	86.5	1.362	0.45	3.62
1000	4.12	34.52	27.41	77.2	1.528	0.65	3.62
1200	3.49	34.56	27.51	68.1	1.675	0.75	3.64
1500	2.85	34.59	27.60	60.5	1.871	1.15	3.52
2000	2.12	34.62	27.68	52.2	2.157	1.68	3.29
2500	1.82	34.65	27.73	47.9	2.411	2.04	3.10
3000	1.66	34.68	27.76	45.4	2.649	2.32	2.93

STATION 1201 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}30'N$ $115^{\circ}18'W$ September 5, 1949 1004 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,071 m. Weather: cloudy
 Sea: moderate Wind: 340° , force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm³)	$10^5 \delta$	ΔI (dyn.m.)	O_2 (ml/L)	P_{O_4-P} (mg at/L)
0	21.80	33.75	23.35	454.5	.0000	4.88	-
10	21.04	33.73	23.54	436.9	.0448	5.11	-
20	19.48	33.65	23.89	403.5	.0859	5.64	-
30	16.34	33.55	24.57	338.4	.1242	5.93	-
50	14.26	33.50	24.99	298.8	.1882	5.90	-
75	12.13	33.49	25.41	259.5	.2584	5.39	-
100	10.83	33.47	25.63	238.7	.3211	4.40	-
150	10.89	34.38	26.33	173.5	.425	1.50	-
200	11.08	34.51	26.40	168.3	.511	0.64	-
250	10.32	34.52	26.54	155.9	.593	0.35	-
300	9.40	34.45	26.54	146.8	.669	0.58	-
400	8.00	34.39	26.82	131.1	.809	0.60	-
500	6.97	34.40	26.97	117.2	.934	0.51	-
600	6.17	34.41	27.09	106.8	1.047	0.39	-
700	5.51	34.42	27.18	98.8	1.151	0.34	-
800	4.96	34.43	27.25	92.0	1.247	0.35	-
1000	4.12	34.49	27.39	79.3	1.421	0.55	-

STATION 1202 (Interpolated Values at Standard Depths)

CREST: $27^{\circ}05'N$ $115^{\circ}53'W$ September 5, 1949 1509 GCT Wire angle: 22°
 Sounding: missing Depth of observation: 1,082 m. Weather: cloudy
 Sea: rough Wind: 340° , force 4.

0	22.20	33.78	23.26	463.1	.0000	5.02	0.48
10	21.58	33.78	23.43	447.2	.0457	4.89	0.45
20	21.56	33.78	23.44	446.8	.0906	5.06	0.42
30	21.51	33.73	23.41	449.4	.1356	5.17	0.40
50	15.94	33.55	24.67	330.2	.2139	5.48	0.53
75	12.85	33.49	25.27	272.7	.2897	5.87	0.66
100	11.34	33.63	25.67	235.7	.3537	3.95	1.50
150	11.08	34.20	26.16	190.2	.461	1.19	2.55
200	10.94	34.45	26.38	170.5	.552	0.66	2.82
250	10.54	34.52	26.50	159.6	.635	0.49	3.10
300	10.03	34.51	26.58	152.5	.713	0.40	3.30
400	8.73	34.47	26.77	136.6	.859	0.30	3.53
500	7.49	34.43	26.92	122.3	.990	0.25	3.58
600	6.40	34.43	27.07	108.5	1.106	0.25	3.50
700	5.62	34.43	27.17	99.5	1.211	0.27	3.42
800	5.02	34.43	27.24	92.9	1.308	0.32	3.36
1000	4.16	34.48	27.38	80.5	1.484	0.57	3.34

STATION 1203 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}38'N$ $116^{\circ}29'W$ September 5, 1949 2107 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,160 m. Weather: cloudy
 Sea: rough Wind: 340° , force 4.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)	$PQ_{t_4}-P$ (Mg at/L)
0	22.00	33.77	23.31	458.5	.0000	5.00	0.36
10	21.50	33.73	23.41	448.6	.0455	5.06	0.40
20	20.97	33.75	23.57	433.9	.0898	5.22	0.42
30	19.93	33.74	23.84	408.5	.1321	5.55	0.44
50	16.75	33.57	24.50	346.4	.2080	6.08	0.45
75	12.90	33.49	25.26	273.7	.2860	5.41	0.94
100	11.27	33.77	25.79	224.1	.3486	3.19	1.88
150	9.46	33.98	26.27	179.5	.450	2.69	2.25
200	9.36	34.26	26.50	158.2	.535	1.59	2.62
250	9.11	34.37	26.63	147.1	.612	0.93	2.82
300	8.83	34.44	26.73	138.5	.684	0.57	2.97
400	7.97	34.47	26.88	124.7	.817	0.29	3.17
500	7.02	34.47	27.02	112.8	.936	0.24	3.30
600	6.23	34.47	27.13	103.4	1.046	0.24	3.37
700	5.60	34.47	27.21	96.2	1.146	0.27	3.42
800	5.06	34.48	27.28	89.6	1.240	0.35	3.45
1000	4.23	34.53	27.41	77.8	1.409	0.54	3.45

STATION 1204 (Interpolated Values at Standard Depths)

CREST: $26^{\circ}17'N$ $117^{\circ}03'W$ September 6, 1949 0222 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,074 m. Weather: cloudy
 Sea: rough Wind: 340° , force 4.

0	22.60	34.02	23.33	456.5	.0000	4.92	0.42
10	22.02	34.02	23.49	441.2	.0451	4.92	0.45
20	22.04	34.06	23.51	439.3	.0893	4.94	0.45
30	21.85	34.07	23.57	433.9	.1331	5.11	0.46
50	17.95	34.01	24.54	341.9	.2111	5.55	0.46
75	16.00	33.80	24.84	314.0	.2935	5.66	0.46
100	14.27	33.73	25.17	283.5	.3687	5.01	0.57
150	11.49	33.79	25.77	227.4	.497	3.21	1.94
200	10.11	34.14	26.28	179.3	.600	2.12	2.26
250	9.35	34.29	26.53	156.8	.684	1.43	2.51
300	8.75	34.37	26.68	142.4	.760	0.92	2.77
400	7.72	34.41	26.87	125.6	.895	0.46	3.05
500	6.82	34.42	27.01	113.7	1.015	0.38	3.22
600	6.04	34.45	27.13	102.4	1.124	0.40	3.35
700	5.43	34.48	27.23	93.3	1.223	0.40	3.44
800	4.92	34.51	27.32	85.6	1.314	0.42	3.48
1000	4.13	34.52	27.41	77.3	1.478	0.57	3.44

STATION 1205 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}51'N$ $117^{\circ}37'W$ September 6, 1949 0803 GCT Wire angle: missing
 Sounding: missing Depth of observation: 1,154 m. Weather: cloudy
 Sea: rough Wind: 350° , force 4.

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	23.70	34.47	23.35	454.3	.0000	-	0.54
10	23.20	34.47	23.50	440.8	.0449	-	0.57
20	23.20	34.49	23.51	439.6	.0891	-	0.56
30	23.17	34.48	23.51	440.1	.1333	-	0.56
50	18.57	33.88	24.29	365.8	.2143	-	0.58
75	16.33	33.68	24.68	329.9	.3017	-	0.53
100	14.37	33.63	25.07	292.8	.3801	-	0.60
150	11.22	33.61	25.67	236.2	.513	-	1.64
200	9.91	34.12	26.30	177.4	.617	-	2.38
250	9.20	34.42	26.65	144.8	.698	-	2.69
300	8.65	34.49	26.79	132.0	.768	-	2.95
400	7.69	34.39	26.86	126.6	.898	-	3.35
500	6.83	34.40	26.99	115.3	1.020	-	3.51
600	6.12	34.42	27.10	105.6	1.132	-	3.54
700	5.54	34.44	27.19	97.7	1.234	-	3.57
800	5.05	34.47	27.27	90.2	1.329	-	3.58
1000	4.24	34.52	27.40	78.7	1.500	-	3.55

STATION 1206 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}26'N$ $118^{\circ}12'W$ September 6, 1949 1328 GCT Wire angle: 17°
 Sounding: missing Depth of observation: 1,032 m. Weather: cloudy
 Sea: rough Wind: 350° , force 4.

0	22.30	33.86	23.29	459.9	.0000	5.04	0.46
10	21.38	33.91	23.44	445.6	.0455	5.03	0.49
20	21.85	33.89	23.44	446.5	.0902	5.02	0.47
30	21.83	33.84	23.41	449.9	.1352	5.06	0.48
50	17.82	33.72	24.36	359.8	.2166	5.45	0.50
75	14.55	33.52	24.95	304.0	.3000	5.82	0.52
100	13.37	33.43	25.12	287.8	.3745	5.65	0.65
150	10.53	33.80	25.94	210.4	.500	3.19	2.01
200	9.78	34.07	26.28	178.9	.598	2.24	2.39
250	9.27	34.28	26.53	156.2	.682	1.59	2.87
300	8.78	34.37	26.68	142.6	.758	1.08	3.30
400	7.77	34.42	26.88	125.6	.893	0.45	3.44
500	6.80	34.43	27.02	112.6	1.013	0.27	3.51
600	6.02	34.44	27.13	102.8	1.122	0.29	3.60
700	5.40	34.45	27.21	95.1	1.222	0.35	3.65
800	4.89	34.46	27.28	88.9	1.314	0.36	3.64
1000	4.09	34.51	27.41	77.4	1.482	0.52	3.54

STATION 1207 (Interpolated Values at Standard Depths)

CREST: $25^{\circ}02'N$ $118^{\circ}46'W$ September 6, 1949 1822 GCT Wire angle: 24°
 Sounding: missing Depth of observation: 1,071 m. Weather: cloudy
 Sea: rough Wind: 350° , force 4-5.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔI (dyn.m.)	O_2 (ml/L)	P_{O_2-P} (mg at/L)
0	22.50	34.00	23.34	455.2	.0000	5.04	0.43
10	21.85	33.96	23.49	441.0	.0450	5.00	0.47
20	21.84	34.06	23.57	433.8	.0889	5.03	0.47
30	21.76	34.06	23.59	432.2	.1324	5.16	0.47
50	17.65	33.64	24.34	361.8	.2122	5.74	0.48
75	15.65	33.72	24.86	312.2	.2969	5.83	0.45
100	14.52	33.56	24.98	301.3	.3741	5.60	0.53
150	11.48	33.64	25.65	238.4	.510	4.30	1.48
200	10.03	34.13	26.29	178.4	.615	2.36	2.42
250	9.68	34.37	26.54	156.0	.699	1.01	2.97
300	9.22	34.35	26.59	151.4	.776	0.66	3.08
400	8.02	34.34	26.77	135.3	.921	0.38	3.22
500	7.03	34.36	26.93	121.0	1.050	0.35	3.35
600	6.23	34.38	27.06	110.1	1.167	0.35	3.52
700	5.58	34.40	27.15	101.0	1.273	0.35	3.61
800	5.02	34.42	27.24	93.6	1.372	0.35	3.64
1000	4.17	34.50	27.39	79.1	1.546	0.51	3.61

STATION 1208 (Interpolated Values at Standard Depths)

CREST: $24^{\circ}41'N$ $119^{\circ}21'W$ September 6, 1949 2331 GCT Wire angle: 22°
 Sounding: missing Depth of observation: 1,111 m. Weather: cloudy
 Sea: rough Wind: 350° , force 4.

0	24.20	34.60	23.30	459.1	.0000	4.85	0.51
10	23.42	34.60	23.53	437.5	.0450	4.77	0.50
20	23.40	34.54	23.49	441.6	.0891	4.79	0.52
30	23.36	34.54	23.50	440.9	.1334	4.81	0.51
50	23.29	34.53	23.51	440.5	.2220	4.85	0.48
75	18.35	34.05	24.48	349.1	.3213	5.36	0.60
100	14.32	33.90	25.29	272.3	.3994	3.88	1.42
150	11.37	33.96	25.92	212.7	.522	2.54	2.14
200	10.60	34.23	26.27	180.8	.621	1.57	2.53
250	9.70	34.30	26.48	161.7	.707	1.08	2.83
300	9.08	34.34	26.61	149.5	.785	0.69	3.05
400	8.03	34.36	26.79	133.9	.928	0.39	3.29
500	6.90	34.35	26.94	119.9	1.056	0.37	3.41
600	6.09	34.34	27.04	110.9	1.172	0.40	3.45
700	5.50	34.35	27.12	103.7	1.281	0.42	3.46
800	4.99	34.36	27.19	97.4	1.382	0.45	3.46
1000	4.22	34.46	27.36	82.8	1.565	0.55	3.48

STATION 1209 (Interpolated Values at Standard Depths)

CREST: $24^{\circ}15'N$ $119^{\circ}56'W$ September 7, 1949 0509 GCT Wire angle: 30°
 Sounding: missing Depth of observation: 1,078 m. Weather: cloudy
 Sea: very rough Wind: 360° , force 4.

Depth (m)	T ($^{\circ}$ C)	S ($^{\circ}$ /oo)	σ_t (mg/cm 3)	$10^5 \delta$	ΔD (dyn.m.)	D ₂ (ml/L)	P _{O₂} -P (mg at/L)
0	22.90	34.21	23.38	451.0	.0000	5.10	0.41
10	22.62	34.16	23.43	447.4	.0451	5.05	0.42
20	22.25	34.21	23.57	434.1	.0894	5.01	0.43
30	21.60	34.18	23.73	419.4	.1322	5.45	0.43
50	17.83	33.96	24.54	342.6	.2088	5.76	0.41
75	16.53	33.90	24.80	318.2	.2918	5.48	0.41
100	15.46	33.75	24.93	306.4	.3704	5.00	0.50
150	12.02	33.62	25.53	249.6	.510	3.97	1.28
200	10.07	34.01	26.19	188.2	.621	2.80	2.07
250	9.18	34.21	26.49	159.8	.708	2.00	2.47
300	8.62	34.28	26.63	147.2	.785	1.50	2.78
400	7.62	34.36	26.85	128.0	.924	0.75	3.09
500	6.82	34.41	27.00	114.4	1.046	0.34	3.27
600	6.12	34.44	27.12	104.2	1.157	0.35	3.38
700	5.53	34.47	27.21	95.7	1.258	0.40	3.44
800	5.05	34.49	27.29	88.8	1.351	0.43	3.48
1000	4.26	34.49	27.38	80.9	1.522	0.61	3.49

STATION 1210 (Interpolated Values at Standard Depths)

CREST: $23^{\circ}50'N$ $120^{\circ}30'W$ September 7, 1949 1028 GCT Wire angle: 10°
 Sounding: missing Depth of observation: 1,171 m. Weather: cloudy
 Sea: rough Wind: 350° , force 3.

0	23.00	34.27	23.40	449.2	.0000	4.99	0.40
10	22.37	34.31	23.61	429.8	.0441	4.95	0.41
20	22.39	34.25	23.56	434.9	.0875	4.93	0.38
30	22.35	34.25	23.57	434.3	.1312	5.05	0.36
50	19.10	34.07	24.30	364.8	.2115	5.66	0.36
75	16.70	33.92	24.78	320.4	.2976	5.81	0.38
100	15.63	33.85	24.97	303.0	.3760	5.48	1.19
150	11.77	33.62	25.58	245.0	.514	4.43	1.49
200	9.93	33.88	26.11	195.3	.625	3.32	1.92
250	9.12	34.17	26.47	161.8	.715	2.26	2.30
300	8.52	34.26	26.63	147.0	.793	1.52	2.61
400	7.57	34.32	26.82	130.0	.932	0.68	3.07
500	6.71	34.39	27.00	114.3	1.055	0.35	3.30
600	6.07	34.46	27.14	101.9	1.164	0.29	3.41
700	5.43	34.48	27.23	93.3	1.263	0.40	3.47
800	4.92	34.49	27.30	87.2	1.354	0.50	3.49
1000	4.14	34.51	27.40	78.1	1.521	0.68	3.47

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