UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

Physical and Chemical Data
Cruise 34
Marine Life Research Program

6-23 February 1952

Prepared by
Marine Life Research Program Division of Oceanography

Sponsored by
Marine Research Committee

Reference 52-24
1 May 1952

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 34

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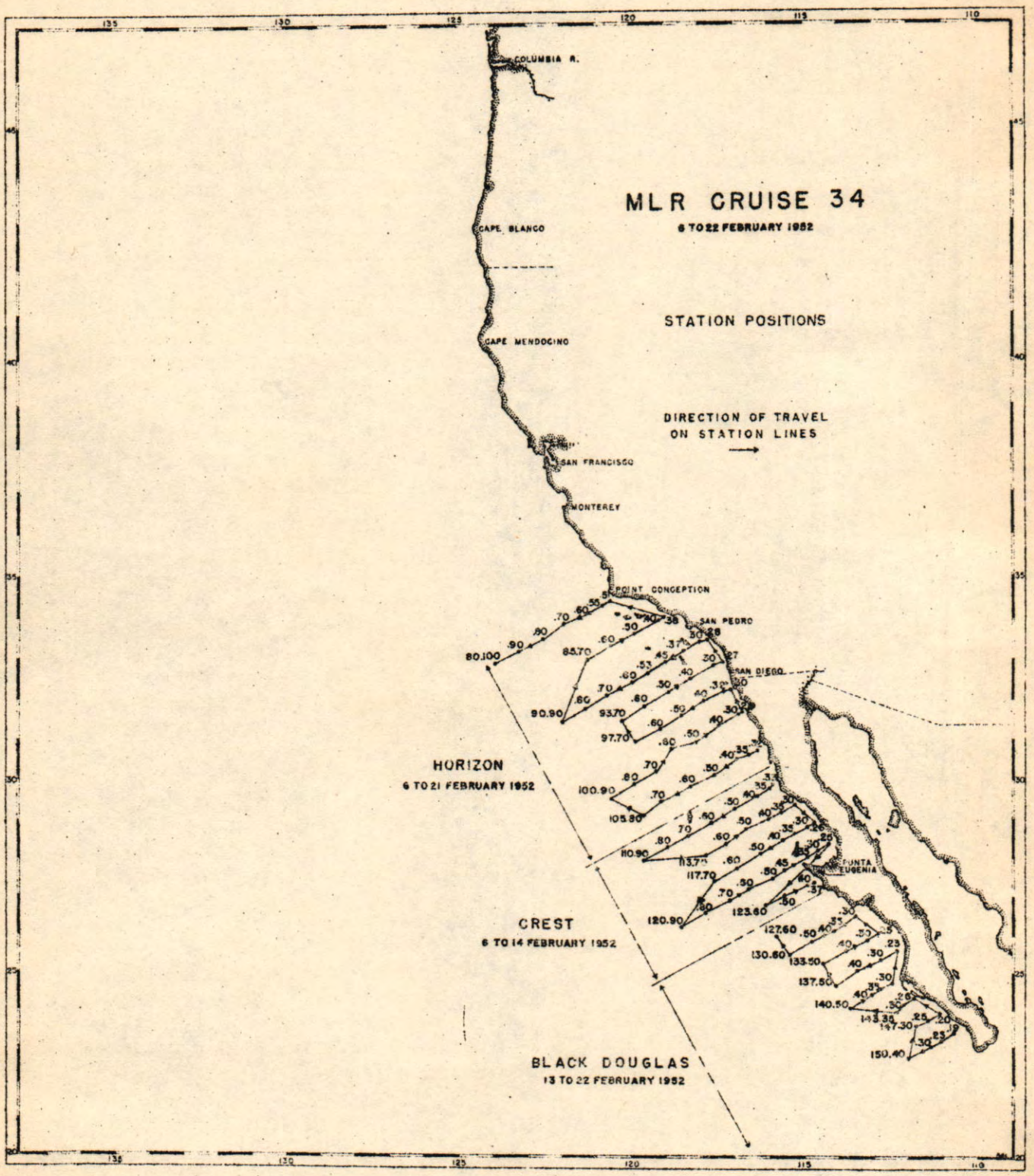
CONTENTS

FIGURES


MLR CRUISE 34
6 TO 22 FEBRUARY 1952
STATION POSITIONS
DIRECTION OF TRAVEL
ON STATION LINES
COLUMBIA R.
CAPE BLANCO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
HORIZON
6 TO 21 FEBRUARY 1952
CREST
6 TO 14 FEBRUARY 1952
BLACK DOUGLAS
13 TO 22 FEBRUARY 1952

INTRODUCTION

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

Data are presented in the form of values tabulated at standard depths and at observed depths and of charts of horizontal distributions. On the charts of horizontal distributions a circle is drawn around the station dot if the quantity is missing for that station. An "x" is drawn through the station dot if the value observed does not conform to the field and was not used in drawing the contours.

Bathythermographs were used to measure temperatures in the upper 100 meters on all casts which extended below 300 meters. Their results were checked on each cast by reversing thermometers at wire lengths of 10, 100 and (sometimes) 50 meters. When one of these thermometers reversed at exactly its proper standard depth the value of temperature at that level is tabulated to hundredths of a degree. If the temperature at a standard depth was read from the corrected bathythermograph slide, it is tabulated to tenths of degrees.

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

Because of Nansen bottle pre-tripping on stations 80.60, 80.80, 80.100, 90.53, 90.70 and 90.80, it was difficult to ascertain depths of observations on those stations. In processing data given in this report and in all previous reports of this series an effort has been made to correct for pre-tripping whenever it has occurred.

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

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

Roger R. Revelle, Director of Scripps Institution of Oceanography

Oceanographers

Horrer, Paul L., Assistant Oceanographer
Lewis, George J., Jr., Associate in Oceanography
Reid, Joseph L., Jr., Associate in Oceanography

Marine Superintendent

Stose, Clemens W.

Ships' Captains

Davis, L. E., MV HORIZON
Ferris, N. L., MV CREST
Hovde, H., MV BLACK DOUGLAS

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV BLACK DOUGLAS

Beckwith, Warren W., Jr., Senior Marine Technician, Scripps Institution
Widrig, Theodore M., Statistician, in charge of observations
Morris, Robert W., Marine Biologist
O'Connell, Charles P., Biological Aid
Bovbjerg, Richard V., Assistant Professor of Zoology, Washington, St. Louis, Missouri

MV CREST

Cunningham, Leonard M., Jr., Senior Marine Technician
Gilkey, Robert W., Marine Technician
Herreshoff, Karl F., Marine Technician, Chemical
Messner, Gordon P., Marine Technician
Counts, Robert C., Marine Biologist, U. S. Fish & Wildlife Service
DeLauney, James A., Meteorological Aid, U. S. Weather Bureau
Kennedy, John C., Meteorological Aid, U. S. Weather Bureau

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McClendon, Robert I., Marine Technician
Payne, Miles M., Marine Technician
Brinton, Edward, Student
McGowan, Robert A., Student

PERSONNEL PARTICIPATING IN PREPARATION OF DATA

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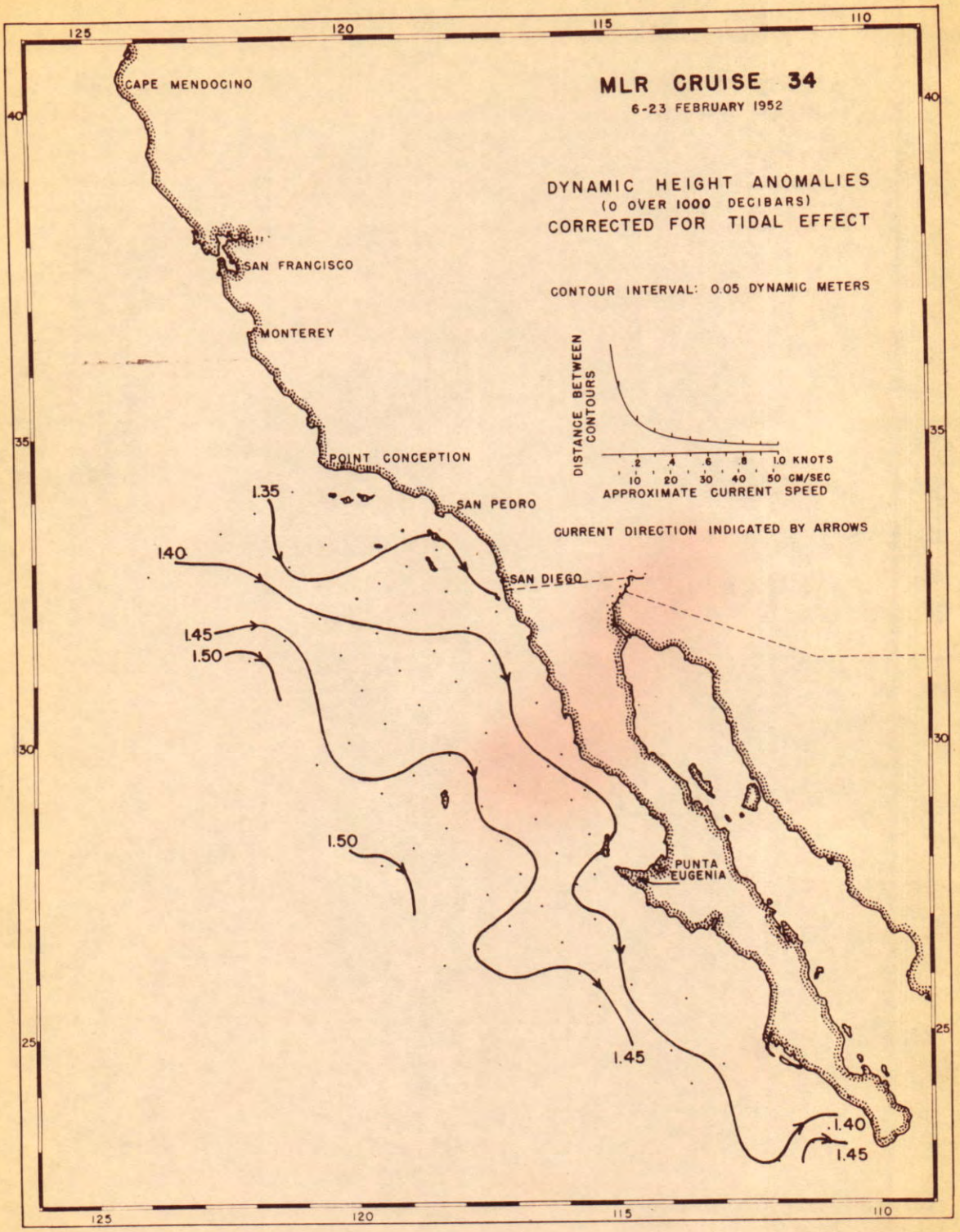
Barstow, Mary C., Laboratory Technician
Berkey, Max L., Jr., Marine Technician
Brown, Curthie F., Engineering Aid
Browne, Geneva S., Engineering Aid
Coolidge, Richard N., Marine Technician
Cunningham, Leonard M., Jr., Senior Marine Technician
Doerr, William A., Marine Technician
Gilkey, Robert W., Marine Technician
Gossett, David A., Senior Marine Technician
Haddow, Robert W., Senior Marine Technician
Hanson, Robert E., Laboratory Technician
Haulman, Doris V., Engineering Aid
Hazelbaker, Bernard R., Engineering Aid
Howell, Robert W., Marine Technician
Hutchins, Dorsey M., Typist-Clerk
James, Lois L., Laboratory Technician
Kircher, Robert J., Marine Technician
Klein, Hans T., Principal Laboratory Technician
Larimore, Wayne H., Senior Laboratory Technician
La Rue, Doris K., Laboratory Technician
Love, Cuthbert M., Research Assistant
McClendon, Robert I., Marine Technician
McCoy, Willis M., Engineering Aid
Madden, Dorothy A., Laboratory Technician
Mao, Han-Lee, Research Assistant
Marquardt, Helen N., Typist-Clerk
Mead, Richard V., Principal Marine Technician
Metzger, June C., Typist-Clerk
Miller, Bernadette L., Engineering Aid
Moyer, John S., Marine Technician
Payne, Miles M., Marine Technician
Propsner, Ruth O., Engineering Aid
Ratty, Donald K., Marine Technician
Rogers, William F., Marine Technician
Schwartzlose, Richard A., Laboratory Technician
Smith, Alan C., Senior Marine Technician
Whitney, Alice D., Senior Engineering Aid
Wilburn, Virginia A., Principal Clerk
Wilkes, Frances C., Engineering Aid
Worrall, Charles G., Senior Marine Technician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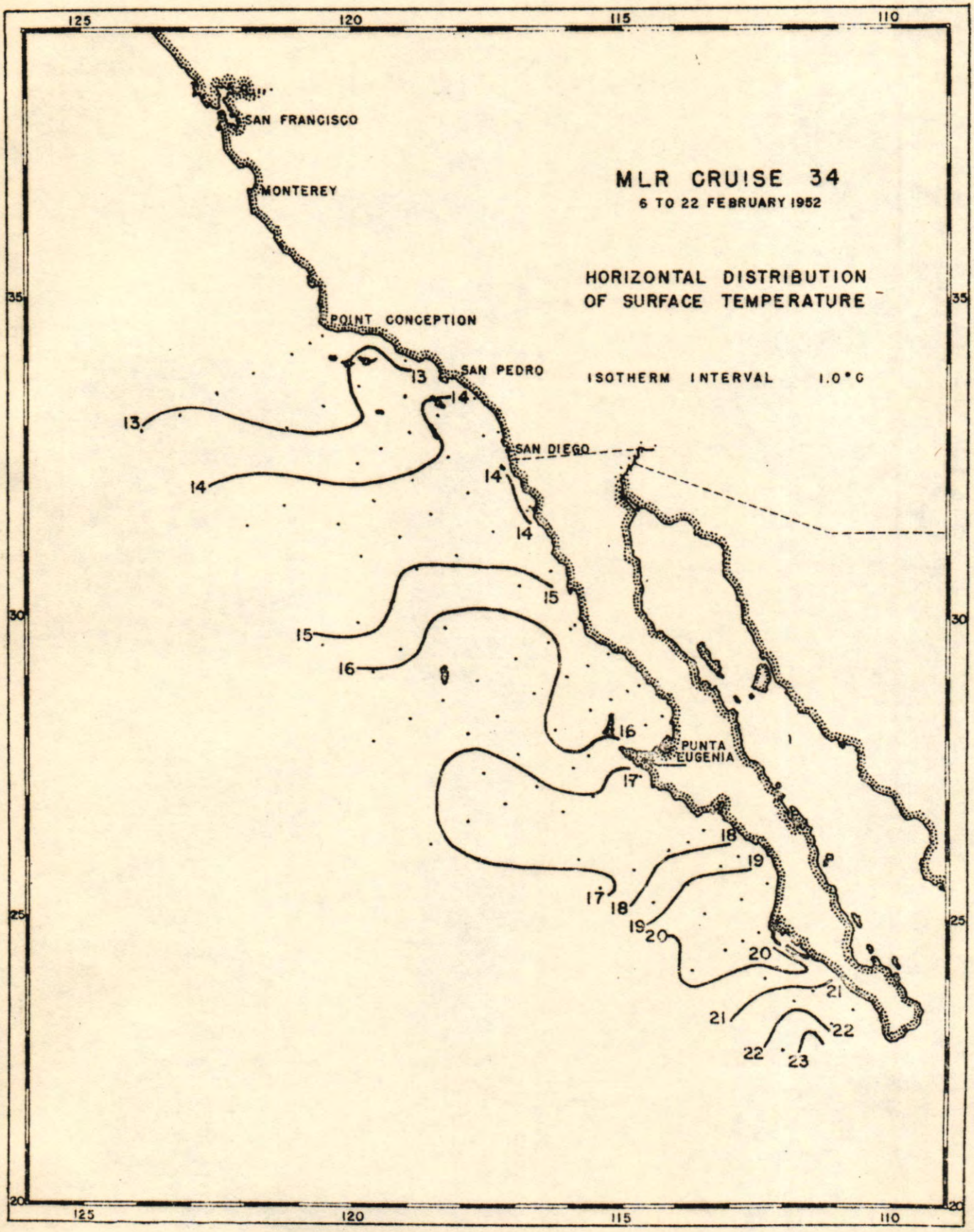
6-23 FEBRUARY 1952
DYNAMIC HEIGHT ANOMALIES
(0 OVER 1000 DECIBARS)
CORRECTED FOR TIDAL EFFECT
CONTOUR INTERVAL: 0.05 DYNAMIC METERS
DISTANCE BETWEEN CONTOURS
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
APPROXIMATE CURRENT SPEED
CURRENT DIRECTION INDICATED BY ARROWS
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
1.35
1.40
1.45
1.50
1.50
1.45
1.40
1.45
125
120
115
110
40
35
30
25


MLR CRUISE 34
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION
OF SURFACE TEMPERATURE
ISOTHERM INTERVAL 1.0°C
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
35
30
25
20
13
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18
19
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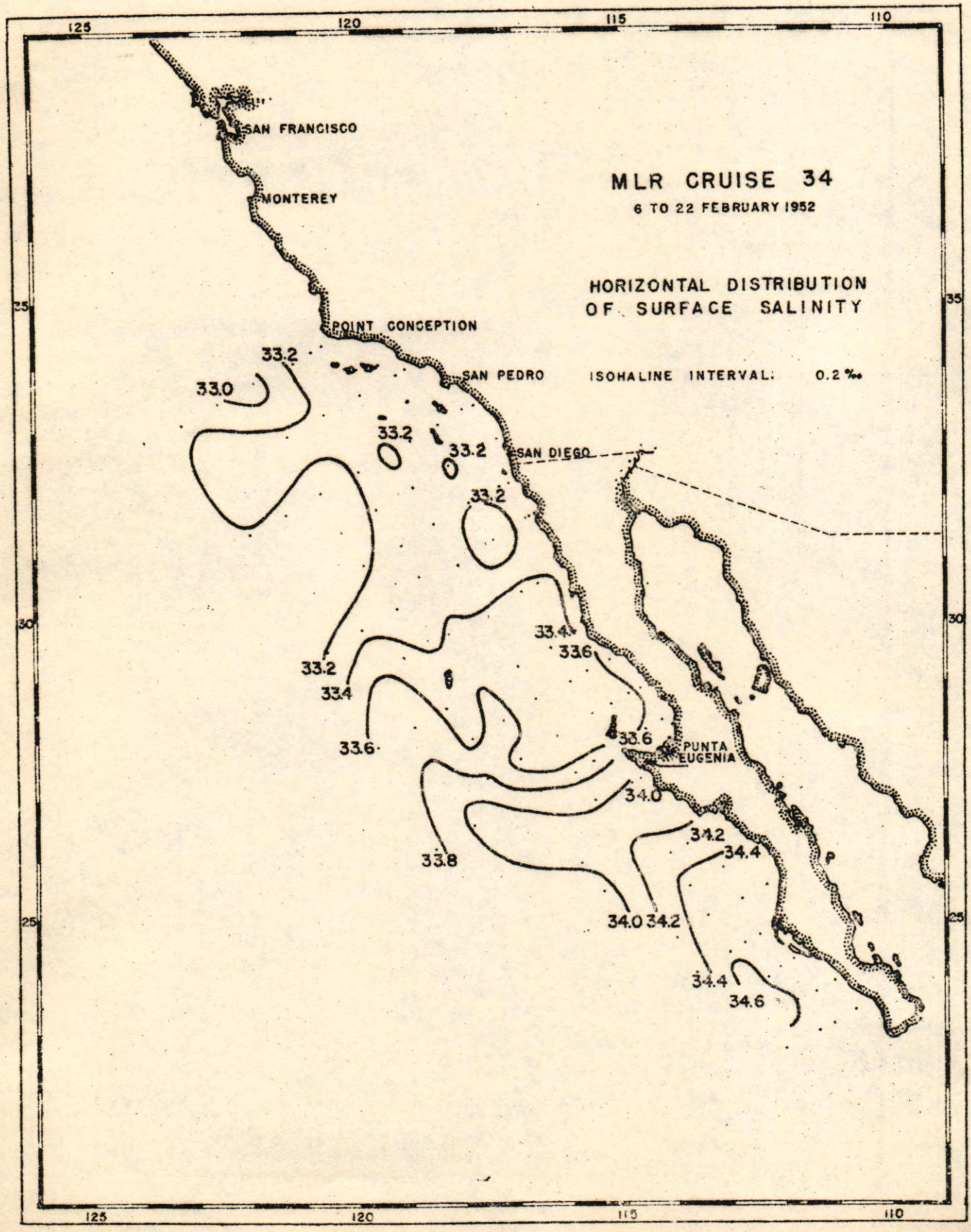
21
22
23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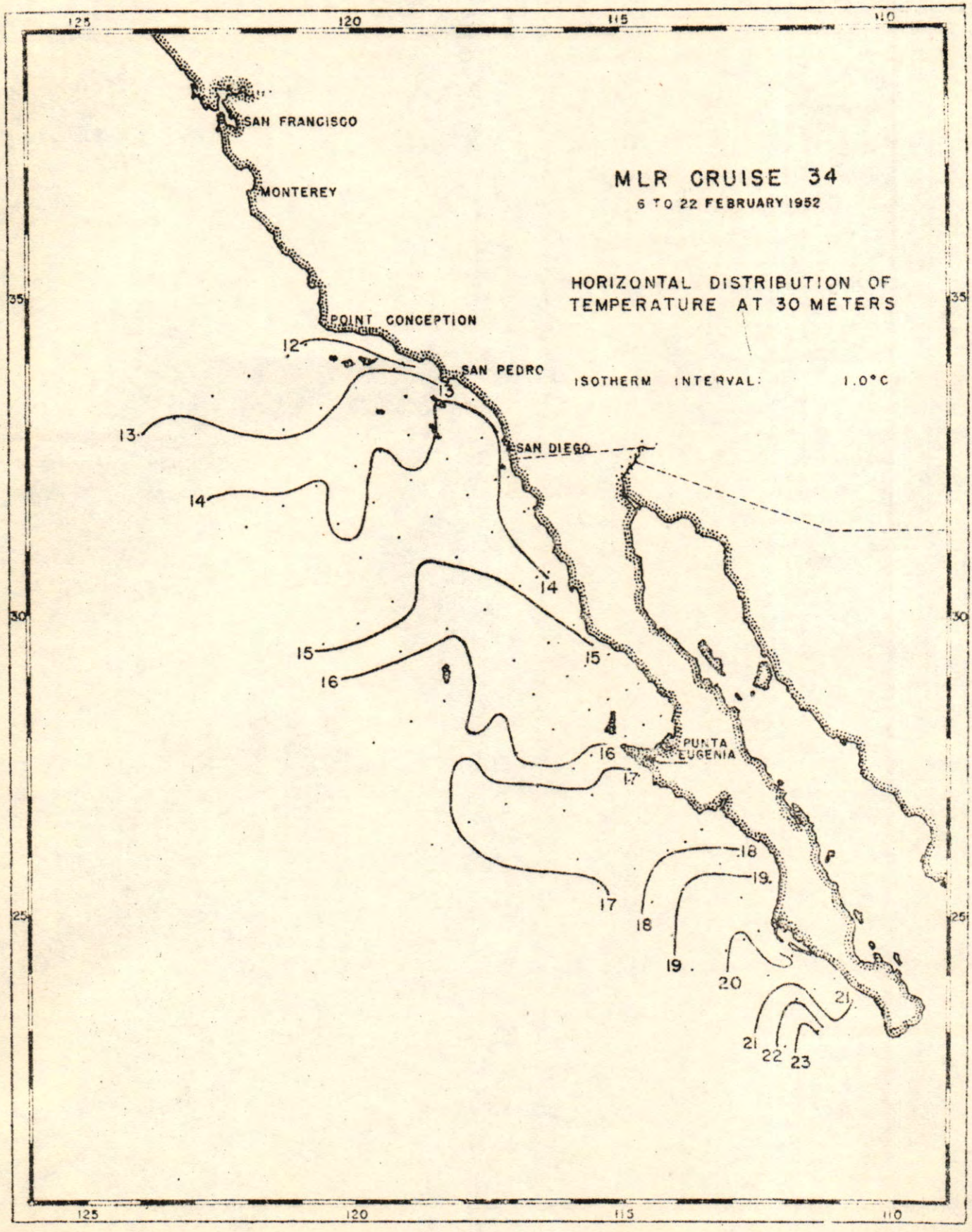
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION
OF SURFACE SALINITY
ISOHALINE INTERVAL: 0.2 ‰
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
125
120
115
110
35
30
25


MLR CRUISE 34
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION OF TEMPERATURE AT 30 METERS
ISOTHERM INTERVAL: 1.0°C
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
35
30
25
12
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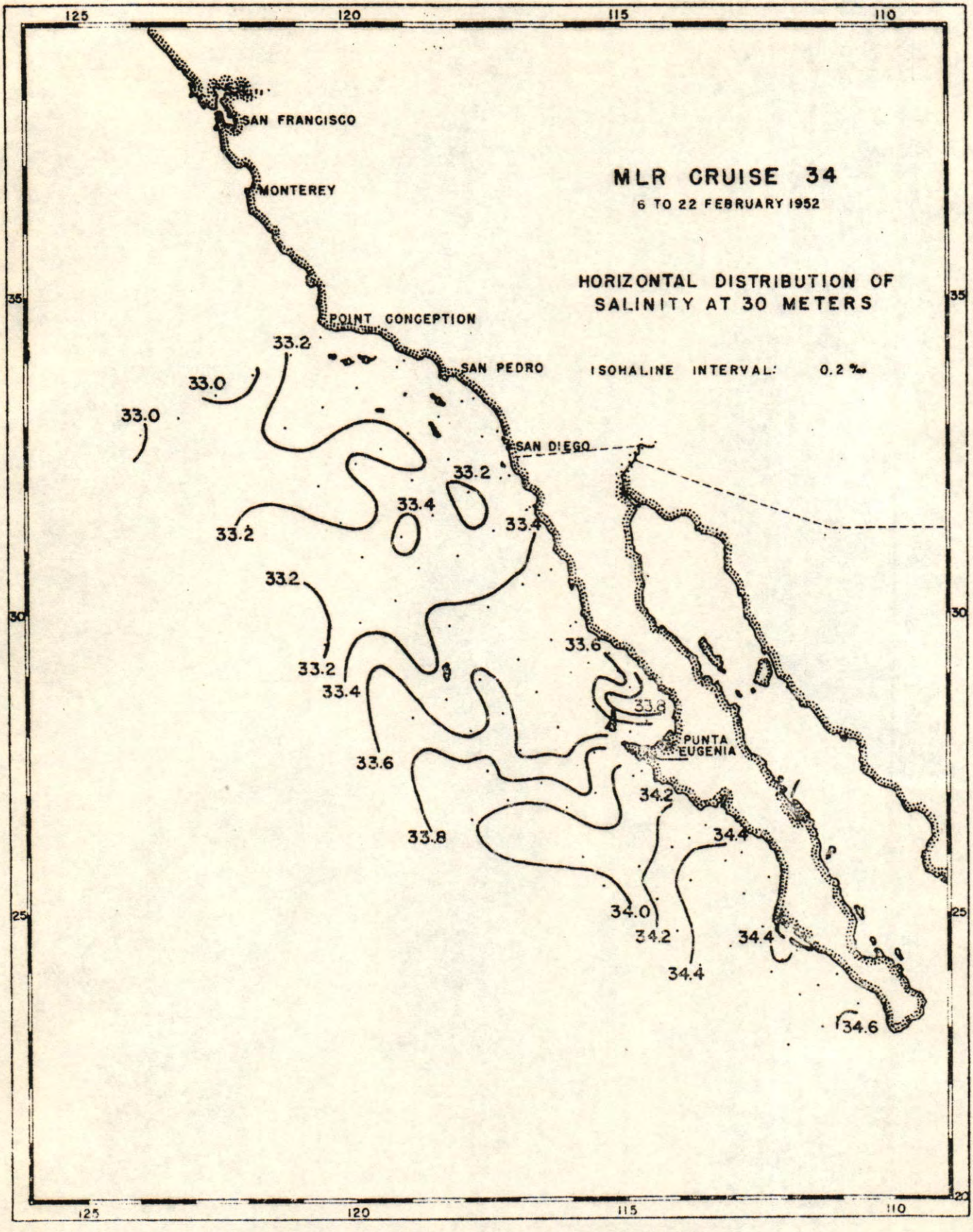
15
16
17
18
19
20
21
22
23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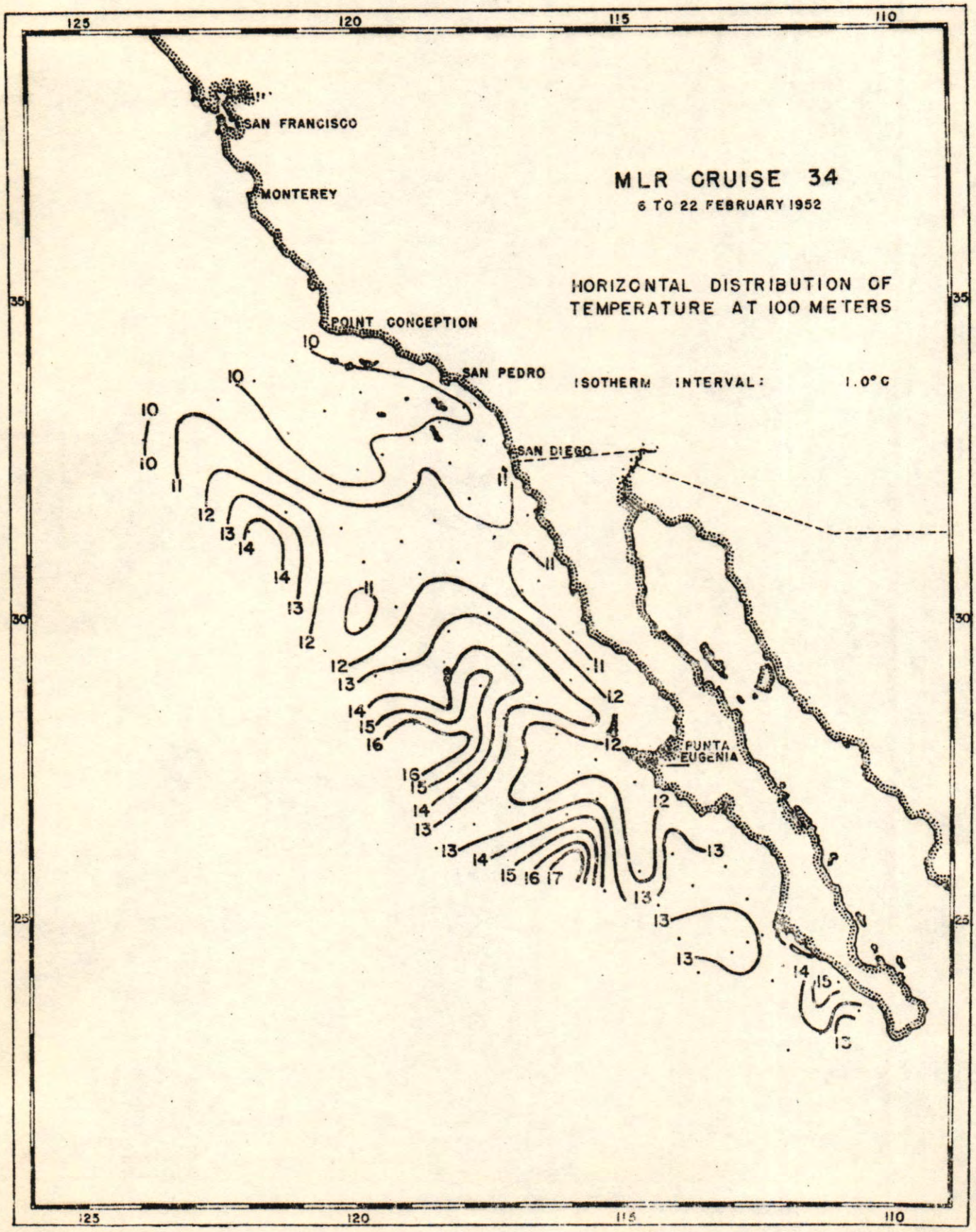
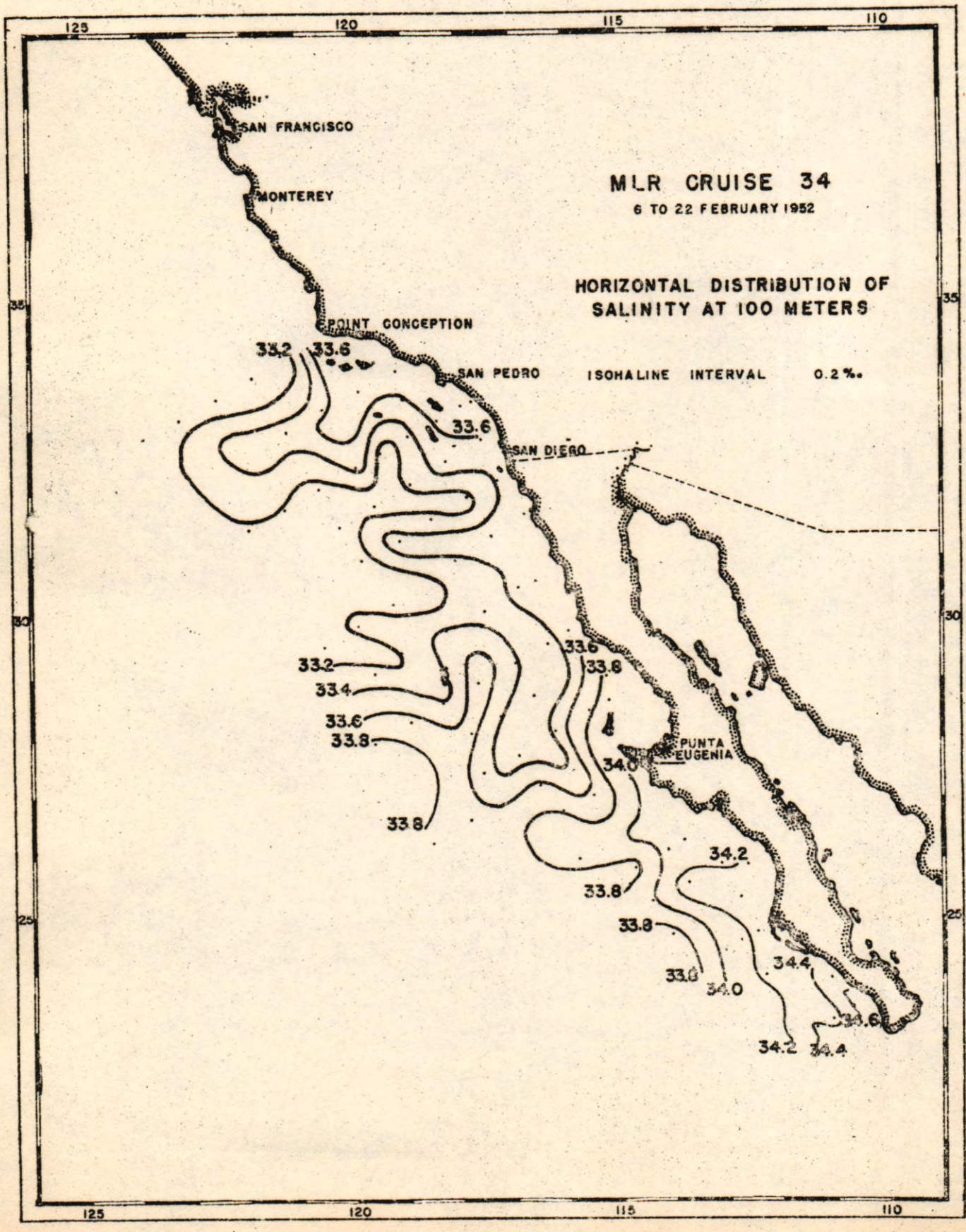
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION OF SALINITY AT 30 METERS
ISOHALINE INTERVAL: 0.2 ‰
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
35
30
25
20
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6


MLR CRUISE 34
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION OF
TEMPERATURE AT 100 METERS
ISOTHERM INTERVAL: 1.0° C
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
35
30
25

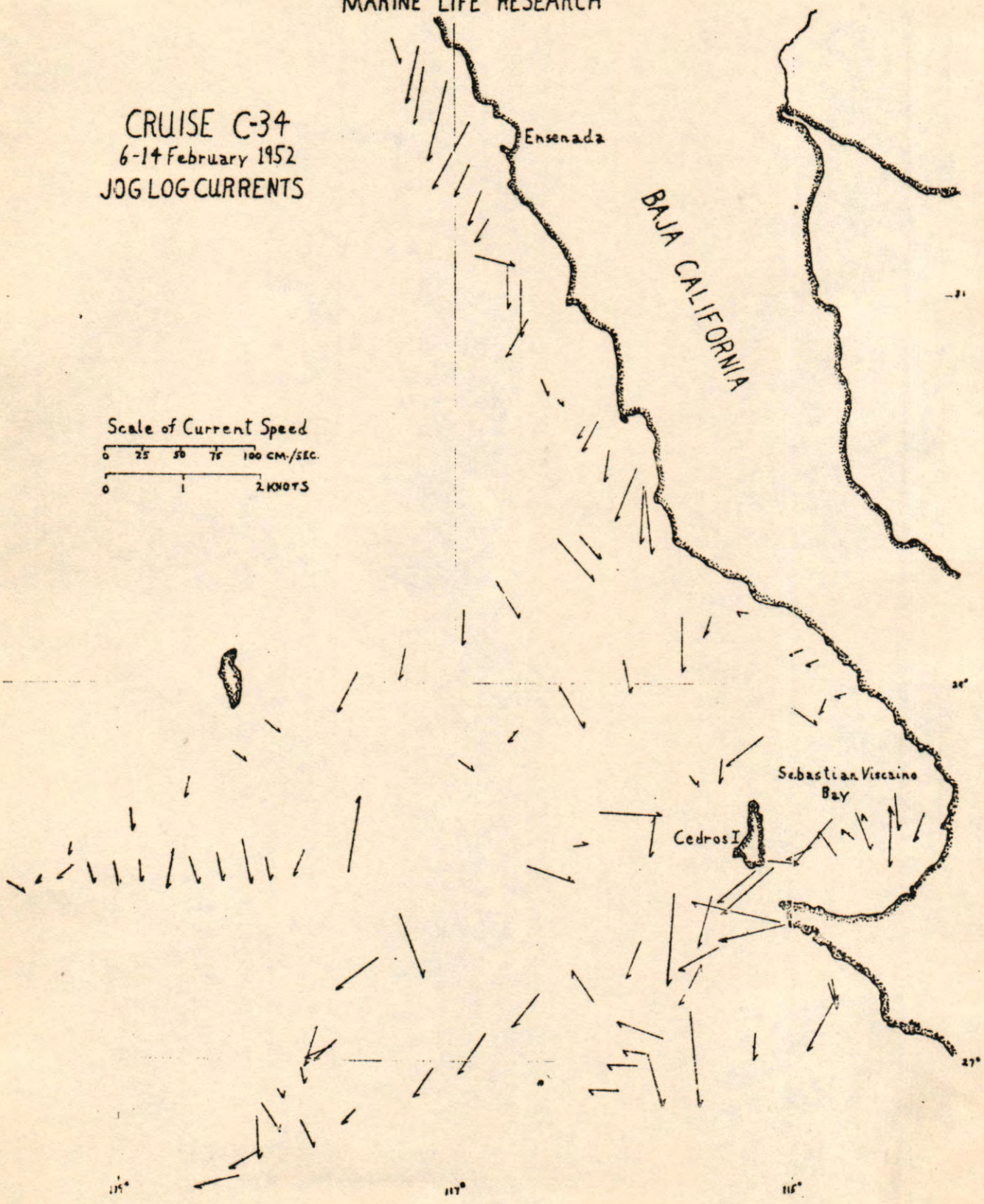

MLR CRUISE 34
6 TO 22 FEBRUARY 1952
HORIZONTAL DISTRIBUTION OF SALINITY AT 100 METERS
ISOHALINE INTERVAL 0.2 ‰
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
35
30
25
33.2
33.6
33.6
33.2
33.4
33.6
33.8
33.8
33.6
33.8
34.0
34.2
33.8
33.8
33.8
34.4
34.0
34.6
34.2
34.4

MARINE LIFE RESEARCH

CRUISE C-34

6-14 February 1952

JOG LOG CURRENTS



STATION 80.51 (Interpolated Values at Standard Depths)

HORIZON: 34°27'N 120°33.5'W; February 20, 1952; 1243 GCT; wire angle: 5°; sounding: 50 fms; depth of observation: 75 m; weather: missing: sea; slight; wind; 330°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	12.33	33.30	25.227	274.99	.000	5.95
10	12.21	33.30	25.250	273.06	.0275	5.85
20	11.77	33.33	25.356	263.20	.0544	5.75
30	11.74	33.35	25.377	261.43	.0807	5.68
50	11.04	33.49	25.613	239.38	.1310	4.25
75	10.52	33.60	25.791	223.02	.1891	3.65
					.646	
					.835	

STATION 80.55 (Interpolated Values at Standard Depths)

HORIZON: 34°19.5'N 120°48.5'W; February 20. 1952; 1509 GCT; wire angle: 7°; sounding: 400 fms; depth of observation: 583 m; weather: overcast; sea; moderate wind: 260°, force 2.

00	12.70	33.21	25.086	288.41	.000	6.30
10	12.57	33.24	25.135	284.05	.0287	6.29
20	12.60	33.23	25.121	285.58	.0573	6.27
30	12.50	33.22	25.133	284.71	.0859	6.24
50	12.50	33.30	25.195	279.31	.1426	6.14
75	11.30	33.31	25.427	257.67	.2101	4.13
100	10.10	33.62	25.878	215.14	.2696	3.62
150	09.02	33.97	26.329	173.14	.3673	2.60
200	08.63	34.06	26.461	161.46	.4516	2.30
250	08.18	34.12	26.577	151.20	.5303	1.95
300	07.37	34.14	26.711	138.87	.6034	1.50
400	06.38	34.16	26.861	125.37	.7366	0.98
500	05.82	34.21	26.972	115.67	.8582	0.62
600	(05.48)	(34.29)	(27.069)	(107.36)	(.9707)	

.6481

STATION 80.60 (Interpolated Values at Standard Depths)

HORIZON: 34°09.5'N 121°10'W; February 20, 1952; 1842 GCT; wire angle: 11°; sounding: 1200 fms; depth of observation: 1,139 m; weather: overcast; sea: rough; wind: 280°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	12.90	33.24	25.070	289.93	.000	6.35
10	12.85	33.21	25.057	291.44	.0292	6.38
20	12.80	33.24	25.090	288.57	.0583	6.37
30	12.80	33.24	25.090	288.81	.0873	6.37
50	12.80	33.24	25.090	289.29	.1454	6.93
75	11.50	33.22	25.321	267.79	.2154	5.90
100	09.20	33.13	25.644	237.15	.2789	5.12
150	08.65	33.81	26.262	179.37	.3837	3.18
200	08.23	34.00	26.475	159.94	.4691	2.75
250	07.58	34.05	26.610	147.70	.5466	2.40
300	07.02	34.07	26.705	139.21	.6189	1.75
400	06.25	34.18	26.894	122.16	.7506	0.80
500	05.75	34.31	27.060	107.35	.8663	0.49
600	05.25	34.35	27.152	99.27	.9705	0.35
700	04.85	34.36	27.207	94.68	1.0684	0.33
800	04.48	34.38	27.264	89.69	1.1615	0.40
1000	03.85	34.43	27.370	80.24	1.3333	0.60

.6509

STATION 80.70 (Interpolated Values at Standard Depths)

HORIZON: 33°50'N 121°50.5'W; February 21, 1952; 0011 GCT; wire angle: 35°; sounding: 1,950 fms; depth of observation: 943 m; weather: partly cloudy; sea: moderate; wind: 270°, force 4.

00	12.50	32.95	24.924	303.86	.000	6.28
10	12.50	32.94	24.916	304.83	.0306	6.28
20	12.50	32.99	24.955	301.39	.0610	6.27
30	12.30	32.97	24.978	299.45	.0912	6.28
50	12.20	32.95	24.981	299.57	.1514	6.30
75	11.30	32.93	25.132	285.68	.2250	5.92
100	09.70	33.05	25.501	250.86	.2925	5.28
150	08.68	33.75	26.211	184.26	.4020	3.50
200	08.38	33.98	26.437	163.63	.4896	2.25
250	08.12	34.15	26.609	148.10	.5681	1.30
300	07.70	34.20	26.710	139.12	.6405	1.12
400	06.83	34.15	26.794	132.16	.7772	0.98
500	05.72	34.17	26.953	117.35	.9030	0.60
600	05.11	34.28	27.113	102.71	1.0140	0.39
700	04.72	34.34	27.205	94.56	1.1136	0.35
800	04.43	34.38	27.269	89.09	1.2064	0.39
1000	(03.88)	(34.47)	(27.399)	(77.64)	(1.3750)	

STATION 80.80 (Interpolated Values at Standard Depths)

HORIZON: 33°30.5'N 122°32.5'W; February 21, 1952; 0715 GCT; wire angle: 12°; sounding: 2,200 fms; depth of observation: 1,145m; weather: clear; sea: slight; wind: 320°, force 3.

Depth ((m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	12.80	33.04	24.935	302.77	000	6.28
10	12.74	33.03	24.939	302.63	.0304	6.28
20	12.70	32.98	24.909	305.82	.0609	6.28
30	12.70	32.97	24.901	306.78	.0917	6.28
50	12.70	33.03	24.947	302.85	.1530	6.25
75	12.10	33.03	25.062	292.46	.2278	6.07
100	10.50	32.99	25.320	268.23	.2983	5.42
150	09.47	33.62	25.983	206.04	.4177	3.60
200	08.52	33.91	26.360	170.92	.5126	2.95
250	07.88	34.00	26.527	155.70	.5948	2.64
300	07.34	34.04	26.636	145.86	.6708	2.15
400	06.43	34.10	26.808	130.48	.8101	1.11
500	05.52	34.19	26.993	113.34	.9331-	0.68
600	05.05	34.26	27.104	103.46	1.0425	0.40
700	04.76	34.32	27.185	96.53	1.1435	0.32
800	04.43	34.38	27.269	89.09	1.2373	0.35
1000	03.80	34.47	27.407	76.69	1.4049	0.60

STATION 80.90 (Interpolated Values at Standard Depths)

HORIZON: 33°09'N 123°13'W; February 21, 1952; 1246 GCT; wire angle: 12°; sounding: 2,300 fms; depth of observation: 1,151 m; weather: intermittent light drizzle; sea: slight; wind: 360°, force 3.

00	13.10	33.17	24.977	298.84	000	6.26
10	13.09	33.17	24.979	298.90	.0300	6.25
20	13.10	33.17	24.977	299.34	.0600	6.25
30	13.10	33.17	24.977	299.59	.0901	6.26
50	13.00	33.15	24.981	299.66	.1503	6.28
75	13.00	33.24	25.051	293.67	.2249	6.20
100	11.10	33.12	25.315	268.77	.2957	5.25
150	08.89	33.64	26.092	195.57	.4126	3.90
200	08.18	33.92	26.420	165.14	.5034	3.40
250	07.53	33.94	26.531	155.16	.5841	3.03
300	06.94	33.98	26.645	144.80	.6597	2.30
400	05.98	34.12	26.881	123.12	.7947	1.03
500	05.74	34.23	26.998	113.16	.9139-	0.50
600	05.21	34.31	27.125	101.73	1.0223	0.35
700	04.77	34.36	27.216	93.69	1.1209	0.35
800	04.38	34.37	27.267	89.22	1.2133	0.37
1000	03.79	34.44	27.384	78.79	1.3832	0.58

STATION 80.100 (Interpolated Values at Standard Depths)

HORIZON: 32°53'N 123°54'W; February 21, 1952; 1801 GCT; wire angle: 16° sounding: 2,300 fms; depth of observation: 1,133 m; weather: partly cloudy; sea: moderate; wind: 30°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	13.10	33.01	24.853	310.60	.000	6.21
10	13.08	32.99	24.842	311.95	.0313	6.23
20	13.10	32.97	24.822	314.04	.0627	6.22
30	13.00	32.97	24.842	312.39	.0941	6.20
50	13.00	32.97	24.842	312.88	.1569	6.21
75	11.90	33.10	25.154	283.71	.2319	5.85
100	10.00	33.01	25.420	258.59	.3001	5.58
150	09.36	33.69	26.056	199.14	.4153	3.25
200	08.91	33.98	26.354	171.64	.5087	2.30
250	08.35	34.05	26.496	158.90	.5919	1.97
300	07.72	34.07	26.605	149.04	.6695	1.83
400	06.68	34.11	26.782	133.09	.8117	1.30
500	05.95	34.16	26.917	121.05	.9399	0.69
600	05.46	34.23	27.032	110.81	1.0569	0.42
700	05.02	34.32	27.155	99.74	1.1632	0.34
800	04.59	34.41	27.275	88.81	1.2584	0.37
1000	03.90	34.48	27.404	77.14	1.4262	0.57

STATION 85.38 (Interpolated Values at Standard Depths)

HORIZON: 34°02'N 119°02'W; February 20, 1952; 0451 GCT; wire angle: 6°; sounding: 75 fms; depth of observation: 75 m; weather: clear; sea: slight; wind: 290°, force 3.

00	12.11	33.37	25.323	265.86	.000	5.40
10	12.08	33.37	25.329	265.55	.0267	5.40
20	11.95	33.37	25.354	263.46	.0533	5.27
30	11.15	33.37	25.501	249.68	.0791	4.63
50	10.54	33.30	25.554	244.97	.1288	4.09
75	10.30	33.58	25.813	220.85	.1874	3.80

STATION 85.40 (Interpolated Values at Standard Depths)

HORIZON: 33°57'N 119°10'W; February 20, 1952; 0226, 0254 GCT; wire angle: 35°, 45°; sounding: 350 fms; depth of observation: 192, 474 m; weather: partly cloudy; sea: rough; wind: 280°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	13.10	33.30	25.077	289.28	.000	6.13
10	13.10	33.26	25.046	292.48	.0292	6.12
20	13.10	33.26	25.046	292.73	.0586	6.08
30	13.00	33.26	25.066	291.09	.0879	6.00
50	12.70	33.28	25.140	284.48	.1457	5.62
75	10.50	33.53	25.740	227.86	.2101	4.48
100	10.00	33.70	25.958	207.60	.2649	3.30
150	09.10	34.02	26.355	170.68	.3601	2.73
200	08.61	34.10	26.495	158.20	.4429	2.27
250	08.10	34.16	26.620	147.05	.5198	1.55
300	07.80	34.20	26.696	140.57	.5923	1.30
400	07.19	34.24	26.815	130.50	.7289	0.78
500	(06.46)	(34.32)	(26.977)	(115.98)	(.8532)	

.1243

STATION 85.50 (Interpolated Values at Standard Depths)

HORIZON: 33°37'N 119°52.5'W; February 19, 1952; 2005 GCT; wire angle: 20°; sounding: 130 fms; depth of observation: 143 m; weather: partly cloudy; sea: rough; wind: 300°, force 4.

00	13.20	33.28	25.042	292.64	.000	6.24
10	13.20	33.26	25.026	294.37	.0295	6.28
20	13.20	33.28	25.042	293.15	.0590	6.27
30	13.20	33.28	25.042	293.40	.0884	6.20
50	11.70	33.31	25.354	264.12	.1444	5.45
75	10.10	33.66	25.910	211.68	.2042	3.95
100	09.80	33.78	26.054	198.47	.2558	3.27
150	(08.85)	(33.84)	(26.254)	(180.16)	(.3511)	

STATION 85.60 (Interpolated Values at Standard Depths)

HORIZON: 33°19'N 120°32'W; February 19, 1952; 1435 GCT; wire angle: 30°; sounding 625 fms; depth of observation 881 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	12.90	33.24	25.070	289.93	.000	6.18
10	12.90	33.24	25.070	290.19	.0291	6.17
20	12.80	33.28	25.121	285.62	.0580	6.16
30	12.90	33.28	25.101	287.73	.0868	6.14
50	13.00	33.29	25.089	289.38	.1448	5.60
75	10.20	33.50	25.768	225.13	.2095	4.13
100	09.70	33.56	25.899	213.14	.2646	3.60
150	08.73	33.94	26.351	170.94	.3613	2.88
200	08.20	34.04	26.511	156.54	.4438	2.19
250	07.60	34.14	26.678	141.32	.5188	1.66
300	07.28	34.21	26.778	132.42	.5878	1.39
400	06.58	34.22	26.882	123.63	.7168	0.82
500	06.07	34.42	27.107	103.36	.8313	0.53
600	05.54	34.31	27.086	105.90	.9369	0.38
700	05.00	34.34	27.174	98.01	1.0398	0.37
800	04.63	34.39	27.255	90.78	1.1352	0.40
1000	(04.04)	(34.46)	(27.374)	(80.31)	(1.3082)	

STATION 85.70 (Interpolated Values at Standard Depths)

HORIZON: 32°58'N 121°14'W; February 19, 1952; 0919 GCT; wire angle: 35°; sounding; 1700 fms; depth of observation: 1,098; weather: clear; sea: moderate; wind: 320°, force 4

00	12.90	33.28	25.101	286.99	.000	6.19
10	12.90	33.26	25.086	288.71	.0289	6.18
20	12.90	33.30	25.117	286.02	.0578	6.17
30	12.90	33.29	25.109	286.99	.0866	6.13
50	12.90	33.27	25.094	288.96	.1445	5.94
75	12.00	33.35	25.329	267.11	.2144	5.79
100	09.90	33.56	25.865	216.34	.2752	3.80
150	08.90	33.86	26.262	179.45	.3748	3.00
200	08.19	34.02	26.497	157.87	.4597	2.44
250	07.50	34.06	26.629	145.83	.5362	2.09
300	07.13	34.10	26.713	138.49	.6078	1.56
400	06.50	34.33	26.980	114.36	.7352	0.76
500	05.75	34.31	27.060	107.35	.8470	0.50
600	05.20	34.28	27.103	103.84	.9535	0.42
700	04.78	34.33	27.191	96.03	1.0544	0.35
800	04.48	34.38	27.264	89.69	1.1482	0.37
1000	03.97	34.45	27.373	80.20	1.3200	0.59

STATION 90.28 (Interpolated Values at Standard Depths)

HORIZON: 33°28.5'N 117°46.5'W; February 17, 1952; 0310 GCT; wire angle: 5°; sounding: 280 fms; depth of observation 385 m; weather: cloudy; sea: missing; wind: 80°; force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.50	33.22	24.728	322.52	.000	6.15
10	14.18	33.24	24.811	314.92	.0320	6.17
20	14.12	33.23	24.816	314.72	.0636	6.19
30	13.45	33.24	24.961	301.13	.0945	6.14
50	11.53	33.31	25.385	261.13	.1510	5.05
75	10.40	33.49	25.726	229.15	.2126	4.07
100	10.45	33.63	25.826	220.17	.2691	3.75
150	09.55	33.90	26.189	186.61	.3715	2.90
200	08.93	34.16	26.492	158.65	.4584	2.03
250	08.40	34.20	26.606	148.55	.5358	1.69
300	07.89	34.21	26.690	141.13	.6088	1.40
400	(07.01)	(34.20)	(26.808)	(130.95)	(.7459)	

.126
.872

.336

STATION 90.30 (Interpolated Values at Standard Depths)

HORIZON: 33°24.5'N 117°56'W; February 17, 1952; 0553 GCT; wire angle: 0°; sounding: 300 fms; depth of observation: 254 m; weather: clear; sea: slight; wind: 240°, force 2

00	14.60	33.24	24.722	323.08	.000	6.10
10	14.27	33.24	24.792	316.71	.0321	6.17
20	14.11	33.25	24.833	313.06	.0637	6.19
30	14.00	33.27	24.871	309.67	.0950	6.15
50	11.90	33.31	25.316	267.67	.1530	5.61
75	10.70	33.39	25.596	241.53	.2170	4.65
100	09.95	33.62	25.904	212.71	.2741	3.71
150	09.32	33.99	26.296	176.32	.3720	2.81
200	08.98	34.13	26.460	161.64	.4571	2.08
250	(08.25)	(34.18)	(26.613)	(147.79)	(.5350)	(1.59)

.336
.871

STATION 90.37 (Interpolated Values at Standard Depths)

HORIZON: 33°11'N 118°23.5'W; February 17, 1952; 1004 GCT; wire angle: 10° sounding: 650 fms; depth of observation 948 m; weather: partly cloudy; sea: moderate; wind: 270°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.10	33.26	24.843	311.59	.000	6.05
10	14.10	33.22	24.812	314.78	.0314	6.08
20	14.10	33.34	24.904	306.26	.0626	6.10
30	14.00	33.35	24.933	303.81	.0932	6.07
50	12.70	33.28	25.140	284.48	.1523	5.42
75	10.50	33.45	25.678	233.76	.2174	4.45
100	10.20	33.61	25.854	217.51	.2742	3.82
150	09.25	33.95	26.277	178.18	.3738	2.62
200	08.60	34.10	26.497	158.06	.4585	2.43
250	08.17	34.16	26.609	148.09	.5356	1.60
300	07.60	34.14	26.678	142.13	.6087	1.30
400	06.85	34.24	26.862	125.78	.7437	0.80
500	06.28	34.28	26.969	116.51	.8659	0.43
600	05.71	34.33	27.081	106.61	.9785	0.31
700	05.17	34.37	27.178	97.92	1.0817	0.30
800	04.73	34.38	27.236	92.75	1.1780	0.32
1000	(04.19)	(34.39)	(27.303)	(87.30)	(1.3600)	

STATION 90.45 (Interpolated Values at Standard Depths)

HORIZON: 32°54.5'N 118°56.5'W; February 17, 1952; 1450, 1735 GCT; wire angle: 15°, 20°; sounding: 950 fms; depth of observation: 1,133; weather: cloudy; sea: moderate; wind: 270°, force 2

00	13.90	33.22	24.853	310.58	.000	6.05
10	13.98	33.24	24.852	310.95	.0312	6.01
20	14.00	33.24	24.848	311.60	.0625	6.01
30	13.80	33.23	24.882	308.67	.0936	6.00
50	13.40	33.18	24.925	305.07	.1553	5.87
75	11.30	33.11	25.272	272.41	.2279	5.44
100	10.10	33.26	25.598	241.74	.2926	4.90
150	09.10	33.66	26.074	197.31	.4031	3.65
200	08.30	34.02	26.480	159.50	.4929	2.75
250	07.98	34.24	26.701	139.38	.5682	2.07
300	07.60	34.27	26.780	132.50	.6367	1.42
400	06.83	34.22	26.849	126.98	.7675	0.59
500	06.12	34.22	26.942	118.83	.8915	0.45
600	05.55	34.25	27.037	110.47	1.0072	0.48
700	05.06	34.35	27.180	98.10	1.1120	0.37
800	04.66	34.41	27.270	89.70	1.2070	0.40
1000	04.00	34.48	27.400	78.50	1.3770	0.50

STATION 90.45 DEEP (Interpolated Values at Standard Depths)

HORIZON: 33°00'N 119°00'W; February 17, 1952; 1735 GCT; wire angle: 20°; sounding: 950 fms; depth of observation; 1,526 m; weather: partly cloudy; sea: rough; wind: 100°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
800	04.66	34.38	27.244	9189		0.34
1000	04.00	34.42	27.346	8277		0.56
1200	03.82	34.45	27.389	8006		0.57
1500	03.76	34.45	27.395	8171		0.61

STATION 90.53 (Interpolated Values at Standard Depths)

HORIZON: 32°39.5'N 119°29'W; February 17, 1952; 2316 GCT; wire angle: 30°; sounding: 700fms; depth of observation: 866 m; weather: cloudy; sea: moderate; wind: 290°, force 5

00	14.00	33.15	24.779	317.68	.0000	6.15
10	14.00	33.19	24.810	315.01	.0318	6.10
20	14.00	33.15	24.779	318.21	.0636	6.12
30	14.00	33.15	24.779	318.47	.0956	6.17
50	13.70	33.14	24.833	313.82	.1591	6.12
75	12.50	33.12	25.055	293.14	.2354	5.85
100	10.30	33.14	25.471	253.86	.3042	5.00
150	08.92	33.68	26.118	193.08	.4167	3.92
200	08.30	33.86	26.355	171.34	.5085	3.27
250	07.89	33.96	26.494	158.80	.5916	2.78
300	07.50	34.04	26.614	148.12	.6689	2.33
400	06.80	34.13	26.782	133.23	.8107	1.51
500	06.20	34.22	26.932	119.89	.9383	0.69
600	05.60	34.27	27.047	109.63	1.0541	0.40
700	05.06	34.32	27.151	100.24	1.1600	0.35
800	04.72	34.37	27.229	93.38	1.2578	0.39
1000	(04.16)	(34.43)	(27338)	(83.98)	(14371)	

STATION 90.60 (Interpolated Values at Standard Depths)

HORIZON: 32°25'N 119°56'W; February 18, 1952; 0329 GCT; wire angle: 38°; sounding: 650 fms; depth of observation: 841 m; weather: clear; sea: rough; wind: 300°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	13.50	33.21	24927	30353	.0000	6.10
10	13.50	33.19	24.912	305.26	.0306	6.10
20	13.60	33.22	24.915	305.24	.0612	6.10
30	13.50	33.22	24.935	303.57	.0918	6.12
50	13.50	33.22	24.935	304.07	.1529	5.98
75	10.60	33.38	25.606	240.60	.2214	4.47
100	09.60	33.50	25.868	216.00	.2788	4.20
150	08.61	33.78	26.245	180.98	.3787	3.62
200	08.08	34.01	26.505	157.01	.4638	2.70
250	07.48	34.05	26.624	146.30	.5402	2.12
300	06.90	34.06	26.713	138.32	.6119	1.67
400	06.10	34.16	26.898	121.70	.7430	0.84
500	05.69	34.22	26.996	113.26	.8615-	0.47
600	05.22	34.32	27.132	101.12	.9697	0.32
700	04.70	34.36	27.223	92.83	1.0676	0.35
800	04.43	34.40	27.285	87.60	1.1587	0.40
1000	(04.10)	(34.45)	(27.360)	(81.77)	(1.3300)	

STATION 90.70 (Interpolated Values at Standard Depths)

HORIZON: 32°04.5'N 120°39'W; February 18, 1952; 0929, 0950 GCT; wire angle: 40°, 45°; sounding 2100 fms; depth of observation: 19, 915 m; weather: clear; sea: moderate; wind: 340°, force 5

00	14.10	33.15	24.758	319.65	.0000	6.01
10	14.10	33.10	24.720	323.58	.0323	6.06
20	14.10	33.07	24.697	326.04	.0649	6.06
30	14.20	33.10	24.699	326.10	.0976	6.05
50	14.30	33.12	24.693	327.16	.1633	6.10
75	13.00	33.17	24.997	298.80	.2420	5.95
100	10.20	33.11	25.464	254.44	.3116	5.49
150	09.11	33.58	26.010	203.39	.4268	4.01
200	08.10	33.88	26.401	166.93	.5200	3.07
250	07.51	33.99	26.573	151.16	.6001	2.32
300	07.03	34.04	26.680	141.56	.6738	1.76
400	06.04	34.10	26.858	125.39	.8083	1.06
500	05.73	34.20	26.976	115.26	.9297-	0.60
600	05.31	34.28	27.090	105.21	1.0409	0.36
700	04.87	34.34	27.188	96.39	1.1427	0.37
800	04.51	34.38	27.260	90.06	1.2369	0.44
1000	(04.10)	(34.45)	(27.360)	(81.77)	(1.4106)	

STATION 90.80 (Interpolated Values at Standard Depths)

HORIZON: 31°45'N 121°17'W; February 18, 1952; 1630 GCT; wire angle: 29°; sounding: 2,150 fms; depth of observation: 1,144 m; weather: partly cloudy; sea: rough; wind: 300°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.60	33.17	24.668	328.20	.0000	6.00
10	14.61	33.24	24.720	323.55	.0327	6.10
20	14.60	33.21	24.699	325.81	.0653	6.03
30	14.60	33.20	24.691	326.82	.0981	6.02
50	14.60	33.21	24.699	326.63	.1638	6.02
75	14.50	33.21	24.720	325.27	.2457	6.07
100	13.50	33.20	24.920	306.81	.3252	6.02
150	10.07	33.17	25.533	248.88	.4651	5.10
200	08.65	33.72	26.192	186.92	.5748	4.09
250	07.82	33.88	26.442	163.72	.6631	3.31
300	07.13	33.97	26.611	148.13	.7417	2.48
400	06.28	34.11	26.835	127.76	.8807	1.13
500	05.81	34.22	26.982	114.80	1.0030	0.62
600	05.38	34.30	27.097	104.60	1.1137	0.40
700	04.96	34.35	27.186	96.78	1.2154	0.35
800	04.57	34.38	27.254	90.79	1.3101	0.39
1000	03.95	34.42	27.352	82.17	1.4850	0.59

STATION 90.90 (Interpolated Values at Standard Depths)

HORIZON: 31°25'N 121°58.5'W; February 18, 1952; 2222 GCT; wire angle: 30°; sounding: 2,000 fms; depth of observation: 1,120 m; weather: partly cloudy; sea: very rough; wind: 280°, force 4

00	14.80	33.19	24.641	330.80	.0000	5.97
10	14.70	33.15	24.632	331.97	.0333	6.00
20	14.70	33.22	24.685	327.12	.0664	6.00
30	14.70	33.22	24.685	327.40	.0993	5.95
50	14.70	33.19	24.662	330.12	.1654	5.96
75	14.70	33.21	24.678	329.33	.2483	5.98
100	14.60	33.19	24.684	329.44	.3312	5.94
150	10.29	33.25	25.558	246.59	.4762	4.90
200	08.77	33.70	26.157	190.21	.5862	3.92
250	08.13	33.91	26.420	166.00	.6759	3.37
300	07.54	33.98	26.561	153.13	.7563	2.68
400	06.32	34.06	26.791	131.98	.9000	1.29
500	05.63	34.20	26.988	113.99	1.0240	0.62
600	05.19	34.26	27.088	105.19	1.1346	0.40
700	04.80	34.32	27.181	97.02	1.2367	0.36
800	04.48	34.38	27.264	89.69	1.3310	0.40
1000	03.92	34.44	27.371	80.34	1.5029	0.60

STATION 93.27 (Interpolated Values at Standard Depths)

HORIZON: 32°56'N 117°19'W; February 11, 1952; 2110 GCT; wire angle: 0°; sounding: 50 fms; depth of observation: 50 m; weather: partly cloudy; sea: slight; wind: 260°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.75	33.21	24.667	328.32	.0000	5.98
10	14.48	33.24	24.748	320.93	.0326	6.04
20	14.32	33.21	24.758	320.17	.0648	6.00
30	14.18	33.24	24.811	315.44	.0967	6.08
50	13.72	33.23	24.898	307.62	.1593	5.99

.159
.792
.901

STATION 93.30 (Interpolated Values at Standard Depths)

HORIZON: 32°52.5'N 117°34.5'W; February 11, 1952; 1900 GCT; wire angle: 10°; sounding: 485 fms; depth of observation: 673 m; weather: partly cloudy; sea: slight; wind: 280°, force 2

00	14.40	33.28	24.795	316.11	.0000	5.95
10	14.34	33.22	24.762	319.57	.0319	5.95
20	14.20	33.25	24.814	314.85	.0637	5.95
30	14.20	33.25	24.814	315.11	.0953	5.91
50	12.50	33.22	25.133	285.18	.1556	5.45
75	10.80	33.37	25.563	244.69	.2222	4.55
100	10.50	33.56	25.763	226.17	.2814	3.82
150	09.78	33.89	26.143	191.03	.3864	2.78
200	09.32	34.14	26.414	166.22	.4764	2.06
250	08.76	34.22	26.566	152.54	.5567	1.63
300	08.23	34.24	26.663	143.94	.6314	1.28
400	07.17	34.23	26.810	130.96	.7699	0.69
500	06.44	34.25	26.924	120.89	.8969	0.48
600	05.85	34.28	27.024	112.13	1.0145	0.33
700	(05.39)	(34.35)	(27.136)	(102.21)	(1.1227)	

.7413

.1270

STATION 93.40 (Interpolated Values at Standard Depths)

HORIZON: 32°30'N 118°12'W; February 11, 1952; 1432 GCT; wire angle: 5°; sounding: 1,050 fms; depth of observation: 1,159 m; weather: over cast; sea: slight; wind: 320°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.30	33.19	24.747	320.70	.0000	6.06
10	14.30	33.21	24.763	319.51	.0321	6.08
20	14.20	33.21	24.783	317.78	.0641	6.05
30	14.20	33.23	24.799	316.57	.0959	5.98
50	13.50	33.30	24.997	298.21	.1577-	5.78
75	11.90	33.22	25.247	274.88	.2297	5.48
100	10.30	33.50	25.751	227.29	.2929	5.03
150	09.42	33.87	26.186	186.77	.3971	3.05
200	08.80	34.05	26.426	164.79	.4856	2.30
250	08.30	34.12	26.558	152.98	.5656	1.73
300	07.80	34.17	26.672	142.79	.6401	1.30
400	06.85	34.24	26.862	125.78	.7755	0.69
500	06.17	34.31	27.007	112.83	.8958-	0.40
600	05.58	34.36	27.120	102.71	1.0045	0.35
700	05.05	34.41	27.223	93.46	1.1035	0.35
800	04.62	34.42	27.280	88.43	1.1954	0.37
1000	03.95	34.44	27.368	80.70	1.3664	0.60

STATION 93.50 (Interpolated Values at Standard Depths)

HORIZON: 32°10'N 118°53'W; February 11, 1952; 0911 GCT; wire angle: 11°; sounding 850 fms; depth of observation: 1,146 m; weather: cloudy; sea: missing; wind: 100°, force 2

00	14.30	33.22	24.770	318.50	.0000	6.00
10	14.28	33.28	24.821	313.97	.0317	6.03
20	14.20	33.25	24.814	314.85	.0633	6.02
30	14.10	33.24	24.827	313.85	.0949	6.00
50	13.80	33.25	24.897	307.72	.1574	6.06
75	12.50	33.26	25.164	282.85	.2316	5.50
100	11.00	33.36	25.520	249.36	.2986	4.72
150	09.67	33.80	26.091	195.91	.4107	3.20
200	09.08	34.00	26.343	172.81	.5035	2.50
250	08.32	34.11	26.548	154.01	.5858	1.84
300	07.65	34.18	26.702	139.89	.6598	1.30
400	06.65	34.28	26.920	120.08	.7908	0.68
500	06.03	34.38	27.080	105.79	.9047-	0.40
600	05.47	34.33	27.110	103.53	1.0103	0.36
700	04.98	34.37	27.200	95.53	1.1108	0.35
800	04.59	34.42	27.283	88.07	1.2035	0.37
1000	03.96	34.46	27.382	79.34	1.3728	0.54

STATION 93.60 (Interpolated Values at Standard Depths)

HORIZON: 31°48.5'N 119°35'W; February 11, 1952; 0332 GCT; wire angle: 12°; sounding: 1,200 fms; depth of observation: 1,144 m; weather: partly cloudy; sea: moderate; wind: 210°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.70	33.21	24.678	327.30	.0000	5.89
10	14.65	33.22	24.696	325.83	.0328	5.90
20	14.20	33.21	24.783	317.78	.0651	6.00
30	14.10	33.20	24.797	316.78	.0970	6.08
50	13.90	33.19	24.830	314.08	.1604	6.08
75	13.40	33.21	24.948	303.51	.2380	5.91
100	11.30	33.10	25.264	273.69	.3106	5.56
150	09.50	33.52	25.900	213.90	.4333	4.41
200	08.48	33.86	26.327	174.02	.5310	3.39
250	08.00	34.03	26.533	155.21	.6139	2.64
300	07.49	34.08	26.647	145.01	.6895	2.09
400	06.51	34.16	26.844	127.09	.8266	1.02
500	06.00	34.26	26.989	114.29	.9483	-0.52
600	05.36	34.31	27.108	103.61	1.0582	0.35
700	04.87	34.37	27.212	94.17	1.1580	0.35
800	04.50	34.42	27.293	86.97	1.2495	0.40
1000	03.95	34.46	27.383	79.22	1.4175	0.60

STATION 93.70 (Interpolated Values at Standard Depths)

HORIZON: 31°28'N 120°15'W; February 10, 1952; 2218 GCT; wire angle: 12°; sounding: 2,150 fms; depth of observation: 1,141 m; weather: partly cloudy; sea: moderate; wind: 290°, force 4

00	14.50	33.12	24.651	329.84	.0000	5.95
10	14.22	33.19	24.764	319.37	.0326	5.98
20	14.20	33.19	24.768	319.24	.0647	6.02
30	13.70	33.19	24.871	309.65	.0963	6.01
50	13.40	33.21	24.948	302.87	.1579	5.92
75	12.70	33.09	24.994	299.05	.2336	5.71
100	11.00	33.06	25.287	271.47	.3054	5.23
150	09.13	33.46	25.913	212.57	.4272	4.19
200	08.49	33.86	26.326	174.16	.5246	3.20
250	08.26	34.07	26.525	156.08	.6078	2.10
300	07.96	34.17	26.649	145.11	.6837	1.43
400	06.72	34.20	26.848	126.96	.8208	0.87
500	05.87	34.22	26.974	115.57	.9431	-0.53
600	05.38	34.32	27.113	103.13	1.0534	0.38
700	05.00	34.40	27.221	93.57	1.1527	0.34
800	04.63	34.42	27.279	88.56	1.2447	0.38
1000	04.02	34.44	27.360	81.54	1.4167	0.57

STATION 97.30 (Interpolated Values at Standard Depths)

HORIZON: 32°15'N 117°08.5'W; February 9, 1952; 1713 GCT; wire angle: 0°; sounding: 30fms; depth of observation: 30 m; weather: cloudy; sea: moderate; wind: 90°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	13.99	33.24	24.850	310.88	.000	6.00
10	13.98	33.22	24.837	312.41	.0313	6.00
20	13.98	33.22	24.837	312.68	.0627	5.94
30	13.48	33.28	24.986	298.77	.0934	5.68

STATION 97.32 (Interpolated Values at Standard Depths)

HORIZON: 32°11.5'N 117°18'W; February 9, 1952; 1908 GCT; wire angle: 25°; sounding: 800 fms; depth of observation: 1,146 m; weather: moderate intermittent rain; sea: moderate; wind: 160°, force 4

00	14.30	33.28	24.816	314.10	.000	5.99
10	14.28	33.28	24.821	313.97	.0315	5.96
20	14.20	33.26	24.822	314.11	.0630	5.93
30	14.20	33.25	24.814	315.11	.0946	5.89
50	13.50	33.24	24.951	302.60	.1567	5.80
75	11.80	33.39	25.397	260.59	.2275	4.75
100	10.30	33.40	25.673	234.67	.2898	4.35
150	09.17	33.81	26.180	187.30	.3960	3.28
200	08.70	34.04	26.434	164.01	.4845	2.12
250	08.61	34.21	26.581	150.99	.5638	1.50
300	08.55	34.23	26.606	149.51	.6395	1.18
400	07.09	34.24	26.829	129.09	.7799	0.73
500	06.36	34.28	26.959	117.59	.9043	0.43
600	05.73	34.31	27.063	108.35	1.0183	0.33
700	05.20	34.36	27.166	99.05	1.1230	0.32
800	04.70	34.40	27.255	90.90	1.2189	0.35
1000	03.97	34.45	27.373	80.20	1.3919	0.59

STATION 97.40 (Interpolated Values at Standard Depths)

HORIZON: 31°58'N 117°50.5'W; February 10, 1952; 0034 GCT; wire angle: 5°; sounding: 755 fms; depth of observation: 1,159 m; weather: partly cloudy; sea: indistinguishable; wind: 340°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.60	33.21	24.699	325.27	.0000	5.92
10	14.21	33.19	24.766	319.18	.0324	5.93
20	14.10	33.19	24.789	317.25	.0643	5.93
30	14.00	33.19	24.810	315.53	.0961	5.93
50	13.40	33.17	24.917	305.81	.1585	5.90
75	11.80	33.06	25.141	284.86	.2327	5.53
100	10.10	33.18	25.536	247.65	.2997	4.92
150	09.25	33.55	25.964	207.76	.4143	4.00
200	08.65	33.97	26.387	168.42	.5090	2.75
250	07.93	34.04	26.551	153.46	.5900	2.41
300	07.45	34.09	26.660	143.70	.6649	1.85
400	06.97	34.22	26.829	128.91	.8023	0.85
500	06.26	34.23	26.932	119.95	.9278	0.40
600	05.67	34.38	27.125	102.39	1.0400	0.35
700	05.12	34.41	27.215	94.33	1.1393	0.35
800	04.65	34.42	27.277	88.81	1.2318	0.39
1000	03.83	34.44	27.380	79.26	1.4017	0.62

STATION 97.50 (Interpolated Values at Standard Depths)

HORIZON: 31°35'N 118°30.5'W; February 10, 1952; 0632 GCT; wire angle: 0°; sounding: 1400 fms; depth of observation: 1,165 m; weather: clear; sea: slight; wind: 360°, force 1

00	14.70	33.21	24.678	327.30	.0000	5.92
10	14.62	33.22	24.703	325.22	.0328	5.91
20	14.50	33.21	24.720	323.80	.0654	5.91
30	14.50	33.21	24.720	324.07	.0979	5.92
50	14.30	33.21	24.763	320.56	.1627	5.90
75	13.60	33.21	24.907	307.39	.2416	5.67
100	11.80	33.31	25.335	267.04	.3139	4.99
150	09.33	33.57	25.967	207.54	.4334	3.92
200	08.61	33.97	26.393	167.82	.5279	2.83
250	07.93	34.04	26.551	153.46	.6088	2.38
300	07.46	34.10	26.667	143.10	.6835	1.79
400	06.90	34.22	26.839	127.94	.8201	0.73
500	06.23	34.30	26.991	114.37	.9423	0.44
600	05.65	34.31	27.072	107.31	1.0541	0.33
700	05.05	34.36	27.184	97.08	1.1573	0.33
800	04.53	34.41	27.282	88.08	1.2508	0.37
1000	03.90	34.46	27.389	78.62	1.4194	0.59

STATION 97.60 (Interpolated Values at Standard Depths)

HORIZON: 31°15'N 119°08'W; February 10, 1952; 1233 GCT; wire angle: 11°; sounding: 2050 fms; depth of observation: 1,148 m; weather: clear; sea: slight; wind: 110°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.90	33.42	24.796	316.02	.0000	5.92
10	14.88	33.39	24.778	318.09	.0318	5.95
20	14.80	33.45	24.841	312.32	.0634	5.97
30	14.80	33.46	24.849	311.88	.0947	5.98
50	14.70	33.43	24.847	312.58	.1575	5.91
75	13.00	33.35	25.136	285.59	.2327	5.10
100	11.10	33.51	25.618	240.02	.2988	4.36
150	09.85	33.97	26.193	186.26	.4061	3.41
200	09.03	34.09	26.421	165.37	.4946	2.22
250	08.72	34.23	26.580	151.19	.5743	1.57
300	08.20	34.25	26.675	142.75	.6483	1.22
400	07.03	34.26	26.853	126.78	.7841	0.73
500	06.19	34.31	27.004	113.10	.9051	0.45
600	05.52	34.35	27.120	102.69	1.0140	0.40
700	05.00	34.39	27.213	94.30	1.1134	0.38
800	04.60	34.41	27.274	88.93	1.2059	0.36
1000	04.02	34.45	27.368	80.79	1.3775	055

STATION 97.70 (Interpolated Values at Standard Depths)

HORIZON: 30°56'N 119°50.5'W; February 10, 1952; 1730 GCT; wire angle: 0°; sounding: 2020 fms; depth of observation: 1,168 m; weather: partly cloudy; sea: slight; wind: 280°, force 1

00	14.50	33.19	24.705	324.72	.0000	5.95
10	14.45	33.15	24.685	326.92	.0327	5.96
20	14.40	33.20	24.734	322.52	.0653	5.98
30	14.30	33.22	24.770	319.31	.0975	6.09
50	13.90	33.25	24.877	309.69	.1607	6.26
75	13.50	33.19	24.912	306.90	.2382	5.95
100	11.20	33.12	25.298	270.49	.3108	5.50
150	08.96	33.61	26.057	198.87	.4289	4.20
200	08.30	33.90	26.386	168.38	.5214	3.31
250	07.88	34.01	26.535	154.95	.6028	2.50
300	07.36	34.09	26.673	142.44	.6777	1.80
400	06.27	34.21	26.915	120.20	.8101	0.80
500	05.87	34.28	27.021	111.12	.9268	0.43
600	05.30	34.32	27.123	102.11	1.0344	0.33
700	04.83	34.38	27.225	92.95	1.1329	0.33
800	04.44	34.43	27.308	85.51	1.2230	0.38
1000	0383	34.45	27.388	7852	1.3889	062

STATION 100.29 (Interpolated Values at Standard Depths)

HORIZON: 31°42'N 116°44'W; February 9, 1952; 1339 GCT; wire angle: 7° sounding: 45 fms; depth of observation: 50 m; weather: overcast; sea: missing; wind: 090°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	13.76	33.28	24.928	303.44	.0000	6.00
10	13.84	33.35	24.966	300.12	.0303	6.03
20	13.60	33.33	25.000	297.17	.0603	5.93
30	13.55	33.37	25.041	293.53	.0900	5.91
50	13.18	33.40	25.138	284.72	.1481	5.59

STATION 100.30 (Interpolated Values at Standard Depths)

HORIZON: 31°41'N 116°46'W; February 9, 1952; 1226 GCT; wire angle: 27° sounding: 150 fms; depth of observation: 171 m; weather: continuous rain; sea: slight; wind: 110°, force 5-6.

00	13.93	33.22	24.847	311.17	.0000	6.00
10	14.05	33.33	24.907	305.74	.0310	6.08
20	13.80	33.37	24.990	298.14	.0613	6.09
30	13.45	33.38	25.069	290.85	.0909	6.03
50	12.94	33.39	25.178	280.90	.1484	5.39
75	12.20	33.42	25.345	265.58	.2171	4.65
100	11.64	33.49	25.504	250.95	.2821	4.28
150	10.45	33.84	25.990	205.74	.3970	2.94

STATION 100.40 (Interpolated Values at Standard Depths)

HORIZON: 31°20.5'N 117°24'W; February 9, 1952; 0704 GCT; wire angle: 22° sounding: 1,000 fms; depth of observation: 1,107; weather: moderate intermittent rain; sea: indistinguishable; wind: 090°, force 4.

00	14.40	33.10	24.657	329.30	.0000	6.00
10	14.34	33.26	24.793	316.64	.0324	6.02
20	14.30	33.22	24.770	319.04	.0643	6.02
30	14.20	33.21	24.783	318.04	.0963	6.01
50	13.80	33.24	24.889	308.45	.1593	6.03
75	12.20	33.33	25.275	273.20	.2323	4.82
100	11.40	33.50	25.556	245.98	.2975	4.00
150	10.12	33.85	26.054	199.52	.4096	2.87
200	09.26	34.09	26.384	168.96	.5024	2.27
250	09.07	34.26	26.548	154.40	.5838	1.34
300	08.53	34.26	26.633	146.99	.6597	1.12
400	07.21	34.25	26.820	130.04	.7993	0.79
500	06.37	34.32	26.989	114.76	.9228	0.43
600	05.67	34.36	27.109	103.87	1.0331	0.33
700	05.12	34.37	27.183	97.29	1.1346	0.33
800	04.68	34.40	27.257	90.66	1.2295	0.38
1000	03.98	34.45	27.372	80.32	1.4024	0.62

STATION 100.50 (Interpolated Values at Standard Depths)

HORIZON: 30°56'N 118°04'W; February 9, 1952; 0128 GCT; wire angle: 14°; sounding: 850 fms; depth of observation 1,219 m; weather: overcast; sea: indistinguishable; wind: 170°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	14.70	33.24	24.701	325.11	.0000	5.92
10	14.61	33.26	24.735	322.09	.0325	5.95
20	14.50	33.23	24.736	322.33	.0648	5.98
30	14.40	33.22	24.749	321.31	.0971	6.00
50	14.30	33.22	24.770	319.84	.1615	5.97
75	12.60	33.12	25.036	294.99	.2388	5.67
100	11.20	33.37	25.492	253.07	.3076	4.67
150	10.30	33.92	26.078	197.34	.4207	2.67
200	09.72	34.15	26.355	171.89	.5137	1.93
250	09.14	34.19	26.482	160.67	.5974	1.69
300	08.30	34.20	26.621	147.94	.6751	1.58
400	06.98	34.22	26.828	129.04	.8147	0.95
500	06.39	34.30	26.970	116.51	.9385	0.45
600	05.80	34.34	27.078	107.04	1.0513	0.31
700	05.21	34.37	27.173	98.43	1.1550	0.32
800	04.74	34.42	27.267	89.92	1.2501	0.38
1000	04.01	34.45	27.369	80.68	1.4226	0.61

STATION 100.60 (Interpolated Values At Standard Depths)

HORIZON: 30°45'N 118°49'W; February 8, 1952; 2000 GCT; wire angle: 22°; sounding: 1,800 fms; depth of observation: 1,131 m; weather: intermittent light rain; sea: moderate; wind: 90°, force 4

00	15.10	33.34	24.691	326.00	.0000	5.85
10	15.12	33.37	24.710	324.51	.0327	5.81
20	15.00	33.35	24.721	323.77	.0652	5.83
30	15.00	33.35	24.721	324.04	.0977	5.88
50	14.90	33.33	24.727	323.99	.1628	5.86
75	14.30	33.35	24.870	310.99	.2426	5.82
100	11.87	33.21	25.245	275.65	.3164	5.40
150	09.59	33.63	25.971	207.19	.4379	3.82
200	09.02	33.95	26.313	175.56	.5343	2.90
250	08.45	34.09	26.512	157.44	.6181	2.20
300	08.01	34.22	26.680	142.16	.6936	1.46
400	07.20	34.33	26.884	123.99	.8277	0.63
500	06.44	34.31	26.972	116.44	.9489	0.32
600	05.73	34.35	27.094	105.39	1.0608	0.27
700	05.08	34.37	27.188	96.78	1.1629	0.30
800	04.61	34.39	27.257	90.54	1.2575	0.37
1000	03.95	34.48	27.399	77.74	1.4276	0.60

STATION 100.70 (Interpolated Values at Standard Depths)

HORIZON: 30°12'N 119°13'W; February 8, 1952; 1437 GCT; wire angle: 28°; sounding: 2,100 fms; depth of observation: 1,022 m; weather: partly cloudy; sea: slight; wind: 170°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.00	33.35	24.721	323.20	.0000	5.81
10	15.03	33.33	24.699	325.57	.0326	5.79
20	15.00	33.31	24.690	326.69	.0653	5.87
30	14.80	33.31	24.733	322.85	.0979	5.91
50	14.50	33.31	24.797	317.28	.1622	5.92
75	14.50	33.28	24.774	320.15	.2423	5.65
100	11.40	33.17	25.300	270.28	.3166	5.18
150	09.28	33.65	26.037	200.84	.4352	3.70
200	08.82	33.93	26.329	173.96	.5296	2.72
250	08.25	34.05	26.511	157.41	.6130	2.22
300	07.55	34.10	26.654	144.38	.6890	1.81
400	06.81	34.16	26.804	131.15	.8279	0.85
500	06.16	34.32	27.016	111.95	.9505	-0.41
600	05.61	34.35	27.109	103.84	1.0594	0.28
700	05.08	34.37	27.188	96.78	1.1607	0.31
800	04.60	34.41	27.274	88.93	1.2545	0.40
1000	04.00	34.47	27.386	7909	1.4244	0.65

STATION 100.80 (Interpolated Values at Standard Depths)

HORIZON: 29°51.5N 119°53'W; February 8, 1952; 0907, 0925 GCT; wire angle: 0°, 0°; sounding: 2,100 fms; depth of observation: 150, 1,164 m; weather: partly cloudy; sea: slight; wind: 180°, force 3

00	14.60	33.24	24.722	323.08	.0000	5.97
10	14.62	33.31	24.772	318.63	.0322	5.95
20	14.50	33.26	24.759	320.13	.0643	5.99
30	14.20	33.24	24.807	315.84	.0962	5.99
50	14.10	33.28	24.858	311.44	.1592	5.94
75	13.10	33.15	24.961	302.16	.2363	5.65
100	10.90	33.23	25.436	257.24	.3067	5.03
150	09.72	33.78	26.067	198.19	.4213	3.34
200	08.82	33.97	26.361	171.01	.5143	1.91
250	08.18	34.09	26.553	153.41	.5960	1.80
300	07.65	34.13	26.663	143.58	.6708	1.55
400	06.58	34.16	26.835	128.07	.8077	0.80
500	05.68	34.15	26.942	118.33	.9320	-0.48
600	05.28	34.29	27.101	104.09	1.0442	0.36
700	04.90	34.37	27.209	94.54	1.1445	0.37
800	04.52	34.39	27.267	89.43	1.2374	0.42
1000	03.85	34.44	27.378	7950	1.4082	0.62

STATION 100.90 (Interpolated Values at Standard Depths)

HORIZON: 29°30'N 120°33'W; February 8, 1952; 0330, 0357 GCT; wire angle: 8°, 9°; sounding: 2,200 fms; depth of observation: 195, 1,153m; weather: partly cloudy; sea: indistinguishable; wind: 210°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.10	33.20	24.584	336.24	.0000	5.87
10	14.99	33.21	24.615	333.53	.0336	5.89
20	14.90	33.20	24.627	332.68	.0670	5.90
30	14.70	33.19	24.662	329.59	.1002	5.90
50	14.50	33.19	24.705	326.07	.1661	5.89
75	14.00	33.19	24.810	316.71	.2469	5.87
100	11.70	33.03	25.137	285.86	.3227	5.67
150	10.00	33.49	25.794	224.13	.4511	4.42
200	08.89	33.89	26.287	178.00	.5524	3.49
250	08.35	34.05	26.496	158.90	.6372	2.75
300	07.83	34.13	26.636	146.18	.7140	1.89
400	06.75	34.19	26.836	128.11	.8522	0.90
500	06.00	34.23	26.966	116.52	.9756	0.57
600	05.44	34.26	27.058	108.33	1.0890	0.40
700	05.01	34.32	27.157	99.61	1.1940	0.36
800	04.66	34.38	27.244	91.89	1.2907	0.39
1000	04.01	34.44	27.361	81.42	1.4659	0.60

STATION 105.32 (Interpolated Values at Standard Depths)

HORIZON: 30°43.5'N 116°20'W; February 6, 1952; 1321 GCT; wire angle: 0°; sounding: 60 fms; depth of observation: 50 m; weather: clear; sea: slight; wind: 200°, force 1

00	14.31	33.41	24.914	304.78	.0000	6.01
10	14.13	33.42	24.960	300.72	.0304	5.95
20	13.99	33.44	25.004	296.75	.0604	5.92
30	13.85	33.42	25.018	295.72	.0901	5.95
50	12.29	3337	25.289	270.31	.1470	4.83

STATION 105.35 (Interpolated Values at Standard Depths)

HORIZON: 30°38'N 116°33'W; February 6, 1952; 1611 GCT; wire angle 0°; sounding: 820 fms; depth of observation: 1,165 m; weather: partly cloudy; sea: slight; wind: 90°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.00	33.42	24.775	318.08	.0000	5.83
10	14.90	33.44	24.812	314.84	.0318	5.81
20	14.80	33.44	24.833	313.06	.0633	5.84
30	14.80	33.44	24.833	313.34	.0947	5.85
50	14.70	33.42	24.839	313.30	.1577	5.74
75	12.30	33.36	25.280	271.82	.2312	4.85
100	10.40	33.50	25.734	228.94	.2942	4.10
150	09.57	33.83	26.131	192.10	.4002	3.09
200	08.73	34.04	26.430	164.46	.4900	2.45
250	08.13	34.06	26.537	154.90	.5704	2.60
300	07.74	34.16	26.673	142.67	.6454	1.43
400	06.88	34.28	26.889	123.22	.7794	0.63
500	06.01	34.40	27.098	104.05	.8940	0.44
600	05.56	34.33	27.099	104.68	.9993	0.30
700	05.09	34.37	27.187	96.92	1.1011	0.38
800	04.66	34.42	27.275	88.94	1.1950	0.43
1000	03.98	34.50	27.412	76.63	1.3624	0.60

STATION 105.40 (Interpolated Values at Standard Depths)

HORIZON; 30°30'N 116°54'W; February 6, 1952; 2010 GCT; wire angle: 10°; sounding: 750 fms; depth of observation: 1,156 m; weather: partly cloudy; sea: moderate; wind: 170°, force 2

00	15.60	33.46	24.674	327.71	.0000	5.86
10	15.01	33.48	24.819	314.18	.0322	5.85
20	14.90	33.47	24.835	312.92	.0637	5.83
30	14.90	33.45	24.819	314.66	.0952	5.81
50	14.70	33.43	24.847	312.58	.1582	5.65
75	11.70	33.37	25.400	260.27	.2302	4.65
100	10.60	33.57	25.753	227.10	.2915	4.07
150	09.30	33.89	26.222	183.41	.3948	2.94
200	08.62	34.01	26.423	165.02	.4825	2.67
250	08.43	34.15	26.562	152.70	.5625	1.75
300	08.14	34.21	26.653	144.82	.6374	1.09
400	06.94	34.26	26.865	125.53	.7737	0.62
500	06.22	34.28	26.977	115.72	.8954	0.37
600	05.52	34.36	27.128	101.94	1.0052	0.27
700	05.01	34.38	27.204	95.17	1.1047	0.30
800	04.61	34.39	27.257	90.54	1.1985	0.37
1000	03.99	34.46	27.379	79.70	1.3706	0.55

STATION 105.50 (Interpolated Values at Standard Depths)

HORIZON: 30°06.5'N 117°32'W; February 7, 1952; 0157 GCT; wire angle: 10°; sounding: 850 fms; depth of observation: 1,143 m; weather: partly cloudy; sea: indistinguishable; wind: 290°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.90	33.44	24.591	335.56	.0000	5.76
10	15.67	33.51	24.696	325.83	.0332	5.74
20	15.50	33.46	24.706	325.23	.0659	5.76
30	15.50	33.44	24.690	326.98	.0986	5.79
50	15.50	33.45	24.698	326.81	.1643	5.74
75	14.90	33.35	24.742	323.22	.2460	5.78
100	12.90	33.35	25.155	284.32	.3224	5.15
150	10.09	33.58	25.849	218.95	.4491	4.39
200	08.99	33.89	26.271	179.53	.5494	3.08
250	08.23	34.04	26.506	157.85	.6344	2.61
300	07.78	34.14	26.652	144.71	.7106	1.68
400	07.18	34.24	26.816	130.37	.8492	0.68
500	06.39	34.29	26.963	117.26	.9741	0.39
600	05.73	34.34	27.086	106.13	1.0868	0.31
700	05.24	34.36	27.161	99.55	1.1906	0.32
800	04.80	34.39	27.236	92.89	1.2878	0.40
1000	04.06	34.44	27.356	82.02	1.4647	0.60

STATION 105.60 (Interpolated Values at Standard Depths)

HORIZON: 29°48'N 118°14.5'W; February 7, 1952; 0740 GCT; wire angle: 8°; sounding: 1,900 fms; depth of observation: 1,158 m; weather: cloudy; sea: slight; wind: 260°, force 1

00	16.10	33.44	24.546	339.86	.0000	5.72
10	15.70	33.46	24.651	330.12	.0336	5.75
20	15.60	33.46	24.674	328.29	.0667	5.76
30	15.60	33.46	24.674	328.57	.0997	5.78
50	15.60	33.46	24.674	329.14	.1658	5.79
75	15.60	33.46	24.674	329.86	.2486	5.77
100	13.60	33.40	25.054	294.09	.3271	5.21
150	10.96	33.76	25.837	220.30	.4566	4.02
200	10.63	34.18	26.223	184.82	.5586	1.63
250	09.94	34.26	26.404	168.41	.6475	1.32
300	09.26	34.30	26.548	155.42	.7291	1.08
400	08.05	34.33	26.761	136.34	.8761	0.69
500	06.89	34.31	26.911	122.64	1.0067	0.42
600	05.94	34.34	27.060	108.89	1.1235	0.31
700	05.29	34.38	27.171	98.70	1.2283	0.33
800	04.78	34.41	27.254	91.16	1.3242	0.38
1000	04.01	34.46	27.377	79.94	1.4972	0.60

STATION 105.70 (Interpolated Values at Standard Depths)

HORIZON: 29°26.5'N 119°07'W; February 7, 1952; 1336 GCT; wire angle: 0°; sounding: 1,950 fms; depth of observation: 1,164 m; weather: clear; sea: slight; wind: 200°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.80	33.44	24.614	333.42	.0000	5.68
10	15.66	33.46	24.660	329.27	.0333	5.59
20	15.60	33.44	24.658	329.74	.0664	5.59
30	15.40	33.41	24.680	327.99	.0994	5.62
50	15.30	33.37	24.671	329.39	.1655	5.67
75	15.10	33.39	24.730	324.44	.2477	5.69
100	12.90	33.21	25.047	294.58	.3256	5.50
150	09.68	33.50	25.855	218.23	.4547	4.09
200	09.07	33.87	26.243	182.25	.5555	3.45
250	08.19	33.97	26.458	162.45	.6423	2.90
300	07.63	34.04	26.595	149.97	.7210	2.17
400	06.99	34.23	26.835	128.45	.8613	0.73
500	06.32	34.30	26.980	115.56	.9844	0.39
600	05.70	34.35	27.098	105.00	1.0957	0.27
700	05.12	34.38	27.191	96.55	1.1974	0.31
800	04.63	34.41	27.271	89.30	1.2913	0.41
1000	03.97	34.46	27.381	79.46	1.4619	0.62

STATION 105.80 (Interpolated Values at Standard Depths)

HORIZON: 29°05'N 119°37'W; February 7, 1952; 1934 GCT; wire angle: 7°; sounding: 2,200 fms; depth of observation: 1,162 m; weather: cloudy; sea: slight; wind: 270°, force 2

00	16.60	33.60	24.554	339.11	.0000	5.62
10	16.27	33.60	24.630	332.17	.0337	5.54
20	(16.20)	33.61	(24.653)	(330.22)	(.0670)	(5.55)
30	(16.10)	33.61	(24.676)	(328.34)	(.1001)	(5.56)
50	(15.70)	(33.52	(24.697)	(326.89)	(.1660)	(5.59
75	(15.70)	(33.48	(24.667)	(330.53)	(.2486)	(5.63
100	13.60	33.28	24.961	302.99	.3283	5.57
150	09.67	33.53	25.880	215.96	.4589	4.11
200	08.82	33.89	26.298	176.92	.5578	3.35
250	08.30	34.06	26.511	157.41	.6420	2.19
300	07.84	34.14	26.643	145.58	.7183	1.50
400	06.94	34.19	26.810	130.71	.8576	0.73
500	06.23	34.31	26.999	113.62	.9808	0.22
600	05.69	34.36	27.107	104.13	1.0907	0.27
700	05.08	34.36	27.180	97.53	1.1925	0.30
800	04.62	34.37	27.240	92.13	1.2883	0.35
1000	03.98	34.44	27.364	81.06	1.4634	0.57

STATION 110.33 (Interpolated Values at Standard Depths)

CREST: 29°51'N 115°53'W; February 6, 1952; 2018 GCT; wire angle: 5°; sounding: 60 fms; depth of observation: 75 m; weather: partly cloudy; sea: rough; wind: 150°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.25	33.39	24.697	325.46	.0000	5.77
10	14.80	33.42	24.818	314.25	.0321	5.82
20	14.71	33.48	24.883	308.29	.0634	5.84
30	14.46	33.42	24.890	307.87	.0943	5.80
50	14.18	33.42	24.949	302.79	.1557	5.66
75	12.64	33.39	25.237	275.89	.2284	5.07

STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°48'N 115°59W; February 6, 1952; 2132 GCT; wire angle: 13°; sounding: 650 fms; depth of observation: 945 m; weather: partly cloudy; sea: rough; wind: 150°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.70	33.42	24.621	332.75	.0000	5.79
10	15.12	33.39	24.726	323.04	.0329	5.86
20	15.00	33.46	24.805	315.72	.0650	5.86
30	15.00	33.46	24.805	316.00	.0967	5.85
50	14.10	33.40	24.951	302.66	.1589	5.74
75	12.00	33.35	25.329	267.11	.2305	5.25
100	10.70	33.46	25.650	236.90	.2939	4.39
150	09.70	33.88	26.148	190.48	.4015	3.28
200	09.51	34.18	26.414	165.29	.4913	2.08
250	09.18	34.34	26.592	150.22	.5710	1.28
300	08.65	34.36	26.692	141.44	.6445	0.85
400	07.43	34.36	26.875	125.04	.7788	0.49
500	06.60	34.35	26.982	115.66	.9002	0.29
600	05.82	34.36	27.091	105.82	1.0119	0.26
700	05.23	34.42	27.210	94.99	1.1133	0.27
800	04.82	34.41	27.250	91.65	1.2076	0.37
1000	(03.95)	(34.51)	(27.423)	(75.52)	(1.3766)	

STATION 110.40 (Interpolated Values at Standard Depths)

CREST: 29°36.5'N 116°20'W: February 7, 1952; 0114 GCT; wire angle: 4°; sounding: 1,400 fms; depth of observation: 1,163 m; weather: partly cloudy; sea: moderate; wind: 340°, force 2.

00	16.30	33.48	24.531	341.28	.0000	5.88
10	15.65	33.48	24.678	327.59	.0336	6.05
20	15.60	33.50	24.704	325.37	.0664	5.80
30	15.50	33.51	24.744	321.87	.0989	5.75
50	15.40	33.48	24.733	323.45	.1638	5.78
75	15.20	33.46	24.762	321.41	.2449	5.59
100	12.24	33.30	25.245	275.72	.3200	5.28
150	09.90	33.56	25.865	217.34	.4441	4.23
200	09.09	34.02	26.357	171.47	.5420	2.90
250	08.85	34.26	26.583	150.98	.6232	1.88
300	08.50	34.31	26.676	142.84	.6972	1.30
400	07.28	34.29	26.841	128.08	.8337	0.75
500	06.30	34.29	26.974	116.04	.9568	0.40
600	05.68	34.34	27.092	105.47	1.0686	0.38
700	05.22	34.41	27.203	95.60	1.1701	0.50
800	04.80	34.46	27.291	87.71	1.2627	0.53
1000	03.96	34.51	27.422	75.65	1.4279	0.55

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°16'N 116°59'W; February 7, 1952; 0645 GCT; wire angle: 7°; sounding: 1,800 fms; depth of observation: 1,165 m; weather: partly cloudy; sea: very rough; wind: 340°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.10	33.51	24.600	33476	.0000	5.60
10	15.91	33.51	24.643	33095	.0334	5.62
20	15.80	33.51	24.667	32889	.0665	5.65
30	15.70	33.51	24.690	32705	.0994	5.65
50	15.70	33.53	24.705	32615	.1650	5.65
75	15.60	33.50	24.704	32694	.2471	5.50
100	13.50	33.39	25.066	29288	.3251	4.98
150	10.60	33.82	25.948	20973	.4516	3.20
200	09.70	34.05	26.281	17893	.5495	2.30
250	08.80	34.14	26.497	15906	.6346	1.90
300	08.30	34.22	26.637	14646	.7116	1.48
400	07.60	34.32	26.819	13045	.8512	0.58
500	06.52	34.33	26.977	11605	.9755	0.32
600	05.63	34.38	27.130	10187	1.0854	0.32
700	05.12	34.48	27.270	8915	1.1818	0.32
800	04.73	34.52	27.347	8240	1.2684	0.32
1000	04.00	34.49	27.402	7761	1.4302	0.59

STATION 110.60 (Interpolated Values at Standard Depths)

CREST: 28°55.5'N 117°40'W; February 7, 1952; 1202, 1220 GCT; wire angle: 7°, 8°; sounding: 2,050 fms; depth of observation: 25, 1,166 m; weather: cloudy; sea: rough; wind: 020°, force 2

00	16.30	33.60	24.623	33253	.0000	5.63
10	16.12	33.57	24.641	33111	.0333	5.52
20	16.10	33.59	24.661	32950	.0665	5.63
30	16.00	33.62	24.707	32545	.0994	5.65
50	16.00	33.64	24.722	32457	.1647	5.65
75	16.10	33.62	24.684	32893	.2468	5.78
100	15.20	33.71	24.954	30387	.3264	5.50
150	11.61	33.71	25.680	23538	.4621	3.55
200	10.10	33.99	26.167	18990	.5692	2.48
250	08.72	34.09	26.470	16153	.6577	2.31
300	07.92	34.16	26.647	14527	.7350	2.00
400	07.18	34.26	26.832	12888	.8732	0.83
500	06.34	34.38	27.040	10992	.9936	0.41
600	05.40	34.49	27.245	9078	1.0949	0.40
700	05.12	34.46	27.255	9063	1.1865	0.40
800	04.69	34.43	27.280	8856	1.2770	0.40
1000	03.90	34.51	27.428	7492	1.4423	0.68

STATION 110.70 (Interpolated Values at Standard Depths)

CREST: 28°36.5'N 118°18'W; February 7, 1952; 1731 GCT; wire angle: 0°; sounding: 1,850 fms; depth of observation: 1,176 m; weather: cloudy; sea: rough; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.90	33.57	24.461	347.96	.0000	5.60
10	16.11	33.55	24.628	332.35	.0342	5.75
20	16.00	33.58	24.676	328.07	.0674	5.65
30	16.00	33.58	24.676	328.36	.1004	5.60
50	15.80	33.51	24.667	329.76	.1665	5.65
75	15.50	33.52	24.752	322.42	.2485	5.71
100	13.50	33.40	25.074	292.15	.3258	5.60
150	10.29	33.52	25.768	226.67	.4564	4.30
200	09.30	33.88	26.214	185.12	.5601	3.10
250	08.40	33.99	26.441	164.09	.6480	2.69
300	07.70	34.08	26.616	148.01	.7266	2.23
400	06.80	34.20	26.837	128.06	.8657	0.96
500	06.12	34.24	26.958	117.35	.9895	0.58
600	05.52	34.34	27.112	103.43	1.1009	0.37
700	04.98	34.40	27.223	93.32	1.2002	0.35
800	04.58	34.42	27.284	87.95	1.2918	0.35
1000	03.95	34.42	27.352	82.17	1.4638	0.66

STATION 110.80 (Interpolated Values at Standard Depths)

CREST: 28°17'N 118°56'W; February 7, 1952; 2251 GCT; wire angle: 3°; sounding: 2,250 fms; depth of observation: 1,169 m; weather: cloudy; sea: rough; wind: 290°, force 2

00	16.90	33.66	24.530	341.40	.0000	5.62
10	16.55	33.64	24.596	335.39	.0340	5.60
20	16.40	33.62	24.615	333.85	.0676	5.59
30	16.40	33.62	24.615	334.15	.1011	5.59
50	16.30	33.69	24.692	327.45	.1676	5.55
75	16.20	33.71	24.730	324.55	.2496	5.52
100	16.20	33.68	24.707	327.48	.3316	5.60
150	11.95	33.66	25.578	245.17	.4757	4.30
200	09.15	33.78	26.160	190.15	.5853	3.50
250	08.35	33.97	26.433	164.82	.6747	2.88
300	07.78	34.06	26.589	150.64	.7542	2.23
400	06.78	34.17	26.816	130.00	.8956	1.15
500	06.03	34.24	26.970	116.18	1.0197	0.50
600	05.30	34.28	27.091	105.08	1.1313	0.38
700	04.90	34.36	27.201	95.29	1.2324	0.38
800	04.60	34.42	27.282	88.20	1.3251	0.40
1000	03.98	34.48	27396	78.11	1.4933	0.64

STATION 110.90 (Interpolated Values at Standard Depths)

CREST: 27°56.5'N 119°36'W; February 8, 1952; 0425 GCT; wire angle: 5°; sounding: 2,250 fms; depth of observation: 1,167m; weather: partly cloudy; sea: very rough; wind: 220°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.80	33.62	24.523	342.08	.0000	5.56
10	16.52	33.58	24.557	339.11	.0342	5.61
20	16.40	33.60	24.600	335.31	.0681	5.61
30	16.30	33.60	24.623	333.43	.1017	5.61
50	16.10	33.57	24.646	331.85	.1686	5.65
75	16.30	33.82	24.792	318.72	.2504	5.60
100	16.00	33.86	24.891	310.00	.3295	5.30
150	12.00	33.86	25.724	231.39	.4658	2.90
200	10.78	34.13	26.157	191.08	.5722	1.88
250	09.68	34.22	26.417	167.09	.6624	1.60
300	08.60	34.22	26.591	151.01	.7425	1.45
400	07.16	34.21	26.795	132.31	.8853	0.99
500	06.45	34.26	26.931	120.28	1.0127	0.50
600	05.70	34.32	27.074	107.22	1.1275	0.37
700	05.18	34.36	27.168	98.78	1.2315	0.33
800	04.78	34.39	27.238	92.63	1.3282	0.33
1000	04.02	34.48	27.392	78.59	1.5013	0.64

STATION 113.30 (Interpolated Values at Standard Depths)

CREST: 29°22.5'N 115°17.5'W; February 9, 1952; 1526 GCT; wire angle: 0°; sounding: 30 fms; depth of observation: 30 m; weather: intermittent light drizzle; sea: rough; wind: 210°, force 4

00	15.66	33.66	24.814	314.36	.0000	5.76
10	15.68	33.68	24.825	313.62	.0315	5.75
20	15.70	33.66	24.805	315.80	.0631	5.76
30	15.63	33.68	24.836	313.14	.0947	5.71

STATION 113.35 (Interpolated Values at Standard Depths)

CREST: 29°12'N 115°39'W; February 9, 1952; 1125 GCT; wire angle: 0°; sounding: 900 fms; depth of observation: 1,180 m; weather: cloudy; sea: rough; wind: 150°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.80	33.42	24.598	334.88	.0000	5.39
10	15.45	33.42	24.676	327.75	.0333	5.43
20	15.50	33.40	24.660	329.62	.0663	5.63
30	15.20	33.40	24.716	324.53	.0991	5.77
50	14.70	33.48	24.885	308.91	.1628	5.84
75	12.00	33.31	25.298	270.06	.2356	5.00
100	11.49	33.70	25.695	232.84	.2989	3.50
150	10.33	33.93	26.080	197.10	.4071	2.74
200	09.48	34.06	26.325	174.66	.5007	2.33
250	09.09	34.22	26.513	157.66	.5844	1.62
300	08.72	34.34	26.666	143.99	.6604	0.90
400	07.70	34.40	26.867	126.00	.7965	0.48
500	06.68	34.37	26.987	115.29	.9182	0.33
600	05.98	34.38	27.086	106.46	1.0301	0.27
700	05.32	34.40	27.183	97.62	1.1331	0.29
800	04.87	34.42	27.252	91.54	1.2286	0.33
1000	04.13	34.48	27.381	79.92	1.4020	0.57

STATION 113.40 (Interpolated Values at Standard Depths)

CREST: 29°05'N 115°59.5'W; February 9, 1952; 0805 GCT; wire angle: 1°; sounding: 900 fms; depth of observation: 1,180 m; weather: cloudy; sea: rough; wind: 180°, force 4

00	15.90	33.48	24.622	332.64	.0000	5.69
10	15.65	33.46	24.662	329.06	.0332	5.69
20	15.70	33.46	24.651	330.41	.0663	5.73
30	15.50	33.46	24.706	325.52	.0992	5.76
50	15.20	33.46	24.762	320.71	.1641	5.73
75	15.00	33.46	24.805	317.25	.2443	5.68
100	12.18	33.31	25.264	273.89	.3187	5.17
150	09.82	33.75	26.027	202.02	.4385	3.80
200	09.43	34.12	26.380	169.44	.5320	2.35
250	09.18	34.46	26.686	141.37	.6103	1.40
300	08.80	34.54	26.810	130.47	.6788	0.90
400	07.70	34.34	26.820	130.43	.8103	0.58
500	06.74	34.36	26.971	116.85	.9350	0.37
600	05.82	34.36	27.091	105.82	1.0473	0.28
700	05.20	34.38	27.182	97.56	1.1500	0.30
800	04.72	34.42	27.269	89.68	1.2446	0.40
1000	03.94	34.52	27.432	74.67	1.4108	0.65

STATION 113.50 (Interpolated Values at Standard Depths)

CREST: 28°43'N 116°38'W; February 9, 1952; 0225, 0255 GCT; wire angle: 6°, 6°; sounding: 1,950 fms; depth of observation: 50, 1,173 m; weather: cloudy; sea: rough; wind: 170°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.20	33.55	24.607	33401	.0000	5.40
10	15.99	33.49	24.609	33414	.0335	5.50
20	16.00	33.52	24.630	33245	.0670	5.65
30	15.90	33.53	24.660	32987	.1002	5.69
50	15.80	33.53	24.683	32830	.1663	5.70
75	15.70	33.53	24.705	32688	.2487	5.65
100	13.54	33.34	25.020	29733	.3272	5.36
150	10.85	33.82	25.904	21399	.4559	3.68
200	10.23	34.14	26.261	18102	.5554	2.00
250	09.57	34.24	26.451	16383	.6422	1.42
300	08.90	34.30	26.606	14974	.7212	1.10
400	07.80	34.34	26.806	13190	.8631	0.65
500	06.89	34.52	27.076	10712	.9836	0.39
600	05.99	34.38	27.085	10659	1.0914	0.31
700	05.30	34.40	27.186	9735	1.1943	0.32
800	04.84	34.44	27.271	8969	1.2888	0.37
1000	04.12	34.62	27.493	6946	1.4497	0.54

STATION 113.60 (Interpolated Values at Standard Depths)

CREST: 28°23'N 117°16.5'W; February 8, 1952; 2106 GCT; wire angle: 12°; sounding: 2,150 fms; depth of observation: 1,159 m; weather: cloudy; sea: rough; wind: 200°, force 3

00	1650	3364	24608	33399	0000	568
10	1620	3360	24646	33065	0334	570
20	1610	3362	24684	32731	0664	570
30	1600	3362	24707	32545	0992	568
50	1580	3351	24667	32976	1650	563
75	1520	3346	24762	32141	2469	561
100	1300	3340	25174	28254	3229	561
150	1142	3354	25584	24450	4556	538
200	1026	3420	26303	17709	5618	410
250	0963	3430	26487	16038	6468	270
300	0901	3434	26620	14851	7246	190
400	0779	3436	26823	13027	8651	090
500	0679	3436	26964	11754	9901	052
600	0602	3438	27081	10699	11034	036
700	0546	3440	27167	9942	12076	030
800	0493	3445	27269	9008	13033	030
1000	0410	3462	27495	6923	14644	056

STATION 113.70 (Interpolated Values at S andard Depth)

CREST: 28°06'N 117°51'W; February 8, 1952; 1622 GCT; wire angle: 0°; sounding: 2,000 fms; depth of observation: 1,179 m; weather: overcast; sea: rough; wind: 200°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.30	33.55	24.585	336.18	.0000	5.66
10	16.07	33.53	24.622	332.94	.0336	5.60
20	16.00	33.54	24.645	331.00	.0669	5.62
30	16.00	33.56	24.661	329.83	.1001	5.63
50	16.00	33.58	24.676	328.95	.1663	5.60
75	16.00	33.64	24.722	325.30	.2485	5.59
100	15.90	33.64	24.745	323.88	.3302	5.58
150	11.48	33.42	25.479	254.40	.4758	4.80
200	09.57	33.81	26.115	194.57	.5889	3.41
250	08.65	33.98	26.395	168.60	.6803	2.68
300	07.98	34.12	26.606	149.11	.7603	1.90
400	07.15	34.30	26.867	125.50	.8987	0.71
500	06.62	34.36	26.987	115.20	1.0201	0.32
600	05.78	34.36	27.096	105.30	1.1313	0.30
700	05.26	34.39	27.183	97.58	1.2337	0.30
800	04.85	34.44	27.270	89.81	1.3284	0.33
1000	04.11	34.46	27.367	81.15	1.5013	0.57

STATION 117.26 (Interpolated Values at Standard Depths)

CREST: 28°56'N 114°41'W; February 9, 1952; 2040 GCT; wire angle: 2°; sounding: 40 fms; depth of observation: 50 m; weather: intermittent light drizzle; sea: moderate; wind: 280°, force 3

00	15.87	33.73	24.820	313.73	.0000	5.79
10	15.85	33.71	24.809	315.07	.0316	5.68
20	15.80	33.75	24.851	311.37	.0630	5.76
30	14.77	33.82	25.132	284.92	.0929	5.67
50	14.78	33.66	25.007	297.39	.1514	5.04

STATION 117.30 (Interpolated Values at Standard Depths)

CREST: 28°48'N 114°56.5W; February 9, 1952; 2232 GCT; wire angle: 0°; sounding: 111 fms; depth of observation: 50 m; weather: cloudy; sea: slight; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.31	33.44	24.722	323.06	.0000	5.86
10	15.44	33.53	24.763	319.50	.0323	5.85
20	15.62	33.71	24.861	310.44	.0639	5.83
30	15.47	33.64	24.841	312.66	.0952	5.80
50	13.81	33.62	25.180	280.80	1548	3.89

STATION 117.35 (Interpolated Values at Standard Depths)

CREST: 28°38'N 115°16'W; February 10, 1952; 0225 GCT; wire angle: 0° sounding: 52 fms; depth of observation: 148 m; weather: partly cloudy; sea: slight; wind: 260°, force 3

00	15.77	33.51	24.674	327.66	.0000	5.77
10	15.96	33.73	24.800	315.97	.0323	5.74
20	15.70	33.84	24.943	302.65	.0634	5.46
30	15.60	33.84	24.965	300.81	.0937	4.95
50	14.37	33.80	25.202	278.79	.1519	4.23
75	13.00	33.76	25.452	255.50	.2191	3.58
100	11.90	33.89	25.766	226.17	.2797	2.87
150	(10.91)	(34.17)	(26.165)	(189.26)	(3843)	(1.71)

STATION 117.40 (Interpolated Values at Standard Depths)

CREST: 28°28'N 115°35.5'W; February 10, 1952; 0600 GCT; wire angle: 4°; sounding: 570 fms; depth of observation: 894 m; weather: clear; sea: moderate; wind: 250°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.50	33.46	24.706	324.66	.0000	5.69
10	15.39	33.42	24.689	326.50	.0327	5.69
20	15.30	33.46	24.740	321.96	.0653	5.70
30	15.20	33.46	24.762	320.15	.0975	5.78
50	14.90	33.40	24.781	318.87	.1617	5.83
75	14.00	33.46	25.018	296.93	.2391	5.63
100	13.50	33.74	25.336	267.24	.3101	4.10
150	11.00	34.08	26.079	197.43	.4271	2.30
200	10.60	34.36	26.368	171.06	.5199	1.16
250	09.88	34.40	26.523	157.11	.6025	0.87
300	09.29	34.40	26.621	148.53	.6795	0.72
400	08.48	34.45	26.789	134.02	.8219	0.43
500	06.79	34.32	26.933	120.50	.9503	0.38
600	05.90	34.36	27.081	106.88	1.0650	0.37
700	05.40	34.40	27.174	98.63	1.1687	0.30
800	04.85	34.42	27.254	91.30	1.2646	0.38
1000	(04.27)	(34.40)	(27.302)	(87.55)	(1.4454)	

STATION 117.50 (Interpolated Values at Standard Depths)

CREST: 28°08'N 116°15'W; February 10, 1952; 1136, 1348 GCT; wire angle: 2°, 8°; sounding: 2,400 fms; depth of observation: 197, 1,164 m; weather: partly cloudy; sea: rough; wind: 260°, force 1

00	15.30	33.51	24.778	317.73	.0000	5.68
10	15.40	33.49	24.741	321.58	.0321	5.68
20	15.10	33.51	24.822	314.13	.0640	5.72
30	14.90	33.51	24.865	310.27	.0953	5.75
50	14.80	33.49	24.872	310.24	.1577	5.66
75	12.90	33.39	25.186	280.77	.2320	5.00
100	11.40	33.48	25.541	247.45	.2985	4.45
150	10.33	33.89	26.049	200.05	.4111	2.77
200	09.40	34.08	26.354	171.92	.5048	2.29
250	09.00	34.21	26.520	157.00	.5876	1.74
300	08.58	34.28	26.641	146.27	.6640	1.23
400	07.27	34.29	26.843	127.94	.8022	0.60
500	06.50	34.33	26.980	115.78	.9251	0.35
600	05.80	34.31	27.054	109.26	1.0386	0.30
700	05.20	34.36	27.166	99.05	1.1438	0.32
800	04.77	34.43	27.271	89.56	1.2391	0.38
1000	04.08	34.48	27.386	79.32	1.4099	0.60

STATION 117.60 (Interpolated Values at Standard Depths)

CREST: 27°46.5'N 116°56.5'W; February 10, 1952; 1906 GCT; wire angle: 6°; sounding: 1,950 fms; depth of observation: 1,164 m; weather: partly cloudy; sea: rough; wind: 180°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.30	33.51	24.554	339.10	0000	5.63
10	15.98	33.48	24.604	334.66	0338	5.65
20	16.00	33.50	24.615	333.92	0674	5.65
30	15.90	33.51	24.645	331.32	1008	5.65
50	15.70	33.50	24.682	328.35	1671	5.65
75	15.60	33.51	24.712	326.20	2494	5.65
100	12.30	33.26	25.202	279.76	3256	5.33
150	10.90	33.86	25.926	211.91	4494	2.95
200	09.93	34.12	26.297	177.52	5475	2.00
250	09.33	34.26	26.506	158.51	6321	1.40
300	08.70	34.29	26.630	147.38	7092	1.10
400	07.27	34.26	26.819	130.15	8491	0.78
500	06.73	34.34	26.957	118.19	9743	0.32
600	05.90	34.36	27.081	106.88	1.0878	0.34
700	05.32	34.38	27.168	99.09	1.1918	0.34
800	04.80	34.40	27.244	92.14	1.2884	0.36
1000	04.07	34.48	27.387	79.19	1.4616	0.58

STATION 117.70 (Interpolated Values at Standard Depths)

CREST: 27°24'N 117°32'W; February 11, 1952; 0014 GCT; wire angle: 0°; sounding: 2,280 fms; depth of observation: 1,167 m; weather: partly cloudy; sea: rough; wind: 240°, force 2

00	17.90	33.82	24413	352.52	.0000	5.59
10	16.78	33.80	24.665	328.83	.0342	5.54
20	16.90	33.86	24.683	327.44	.0671	5.53
30	17.00	33.86	24.659	329.99	.1001	5.53
50	16.90	33.86	24.683	328.36	.1663	5.53
75	16.60	33.86	24.753	322.43	.2481	5.47
100	12.90	33.46	25.240	276.25	.3234	4.50
150	10.27	33.80	25.990	205.68	.4447	3.18
200	09.30	34.02	26.323	174.77	.5405	2.00
250	09.11	34.32	26.588	150.60	.6224	1.23
300	08.93	34.40	26.679	142.83	.6963	0.79
400	07.60	34.32	26.819	130.45	.8340	0.47
500	06.60	34.29	26.935	120.10	.9604	0.37
600	05.90	34.31	27.041	110.58	1.0768	0.30
700	05.40	34.35	27.134	102.33	1.1843	0.30
800	05.00	34.38	27.205	96.14	1.2845	0.35
1000	04.10	34.46	27.368	81.03	1.4636	0.58

STATION 120.25 (Interpolated Values at Standard Depths)

CREST: 28°23'N 114°14'W; February 13, 1952; 0443 GCT; wire angle: 5°;
sounding: 30 fms; depth of observation: 30 m; weather: clear;
sea: very rough; wind: 320°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	15.87	33.71	24.805	315.20	.0000	5.64
10	15.90	33.64	24.745	321.25	.0319	5.72
20	15.86	33.77	24.853	311.19	.0636	5.65
30	15.90	33.82	24.883	308.70	.0947	5.24

STATION 120.30 (Interpolated Values at Standard Depths)

CREST: 28°13.5'N 114°34'W; February 13, 1952; 0127 GCT; wire angle: 15°;
sounding: 54 fms; depth of observation: 72 m; weather: partly cloudy;
sea: very rough; wind: 320°, force 5

00	15.59	33.62	24.799	315.80	.0000	5.74
10	15.62	33.58	24.761	319.65	.0319	5.75
20	15.60	33.55	24.743	321.71	.0641	5.76
30	15.58	33.62	24.801	316.46	.0961	5.77
50	14.60	33.56	24.968	301.01	.1582	5.39
75	12.40	(33.44)	(25.322)	(267.77)	(.2297)	(4.69)

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°02.5'N 114°55'W; February 12, 1952; 2204 GCT; wire angle: 10°;
sounding: 46 fms; depth of observation: 49 m; weather: partly cloudy;
sea: very rough; wind: 340°, force 6

00	15.30	33.49	247.63	319.20	.0000	5.69
10	15.31	33.44	247.22	323.35	.0323	5.72
20	15.30	33.51	247.78	318.30	.0645	5.71
30	15.31	33.46	247.38	322.45	.0967	5.74
50	15.80	(33.72)	(248.28)	(314.43)	(.1607)	5.45

.695
.859

STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°43'N 115°33'W; February 12, 1952; 1619 GCT; wire angle: 18°; sounding: 1,200 fms; depth of observation: 1,232 m; weather: cloudy; sea: high; wind: 360°, force 7

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	16.50	33.78	24.715	323.78	0000	5.70
10	16.34	33.82	24.782	317.65	0322	5.73
20	16.30	33.86	24.822	314.16	0639	5.75
30	16.30	33.86	24.822	314.46	0955	5.70
50	16.00	33.86	24.891	308.52	1581	4.82
75	12.50	33.82	25.597	241.71	2273	3.80
100	11.30	33.80	25.807	222.14	2857	3.25
150	10.09	33.94	26.129	192.38	3900	2.48
200	09.61	34.16	26.381	169.37	4811	1.70
250	09.48	34.37	26.567	152.80	5622	1.00
300	09.28	34.46	26.670	143.95	6370	0.60
400	08.23	34.44	26.820	130.94	7755	0.41
500	06.88	34.42	26.999	114.37	8992	0.33
600	06.01	34.40	27.098	105.37	10101	0.28
700	05.43	34.38	27.154	100.50	11140	0.31
800	04.86	34.37	27.213	95.11	12128	0.40
1000	04.05	34.54	27.437	74.52	13843	0.57

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°31'N 115°52.5'W; February 12, 1952; 1114 GCT; wire angle: 28°; sounding: 2,175 fms; depth of observation: 1,099 m; weather: overcast; sea: very rough; wind: 360°, force 5

00	16.30	33.66	24.669	328.15	.000	.556
10	16.16	33.62	24.670	328.33	.0330	.562
20	16.20	33.70	24.722	323.66	.0657	.560
30	16.20	33.70	24.722	323.94	.0982	.558
50	16.10	33.66	24.715	325.29	.1634	.555
75	16.00	33.62	24.707	326.77	.2454	.547
100	11.90	33.41	25.394	261.47	.3194	.468
150	10.79	34.04	26.085	196.76	.4347	.263
200	10.26	34.33	26.404	167.52	.5264	.121
250	09.88	34.42	26.539	155.64	.6078	.077
300	09.40	34.46	26.650	145.88	.6838	.054
400	08.02	34.43	26.844	128.51	.8221	.036
500	06.98	34.37	26.946	119.47	.9472	.029
600	06.05	34.40	27.093	105.90	1.0609	.024
700	05.30	34.40	27.186	97.35	1.1635	.024
800	04.78	34.43	27.270	89.68	1.2580	.031
1000	04.05	34.51	27.413	76.73	1.4263	.052

STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°13'N 116°32'W; February 12, 1952; 0521 GCT; wire angle: 20°; sounding: 2,150 fms; depth of observation: 1,206 m; weather: cloudy; sea: very rough; wind: 020°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	17.30	33.91	24.627	33219	000	5.50
10	17.20	33.87	24.620	33315	.0334	5.51
20	17.20	33.86	24.612	33420	.0669	5.45
30	17.10	33.96	24.712	32496	.1000	5.17
50	17.00	34.10	24.843	31313	.1641	4.19
75	12.90	33.90	25.580	24333	.2340	4.00
100	11.20	33.77	25.802	22261	.2926	3.38
150	10.35	34.30	26.365	17016	.3915	1.72
200	10.35	34.46	26.489	15946	.4745	0.88
250	09.75	34.44	26.576	15202	.5529	0.72
300	08.89	34.40	26.686	14221	.6270	0.67
400	07.98	34.45	26.865	12644	.7624	0.34
500	06.94	34.44	27.007	11373	.8835	0.28
600	06.10	34.39	27.079	10732	.9950	0.22
700	05.45	34.41	27.176	9855	1.0989	0.22
800	04.94	34.47	27.283	8873	1.1935	0.30
1000	04.15	34.54	27.426	7574	1.3598	0.48

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°52'N 117°10'W; February 11, 1952; 2318 GCT; wire angle: 17°; sounding: 2,150 fms; depth of observation: 1,127 m; weather: cloudy; sea: very rough; wind: 020°, force 4

00	17.80	34.00	24.575	33710	000	5.45
10	17.50	33.96	24.617	33343	.0337	5.45
20	17.20	33.96	24.689	32691	.0668	5.43
30	17.10	33.96	24.712	32496	.0995	5.43
50	17.00	33.95	24.728	32405	.1647	5.46
75	16.00	33.94	24.952	30344	.2436	5.35
100	12.20	33.60	25.484	25294	.3136	4.10
150	10.80	34.04	26.084	19694	.4268	2.28
200	10.08	34.34	26.443	16377	.5176	1.30
250	09.48	34.42	26.606	14911	.5964	0.92
300	08.90	34.42	26.700	14089	.6695	0.70
400	07.85	34.38	26.830	12968	.8059	0.42
500	06.78	34.38	26.981	11593	.9298	0.33
600	06.07	34.41	27.099	10543	1.0415	0.30
700	05.43	34.42	27.186	9755	1.1440	0.31
800	04.86	34.44	27.269	8994	1.2387	0.33
1000	04.08	34.48	27.386	7932	1.4098	0.52

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°35'N 117°50'W; February 11, 1952; 1726 GCT; wire angle: 13°; sounding: 2, 250 fms; depth of observation: 1,147 m; weather: partly cloudy; sea: rough; wind: 020°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	17.70	34·02	24.615	333.33	000	5·44
10	17·45	33·98	24.644	330·83	.0333	5·45
20	17·40	33·99	24.664	329.26	.0664	5·45
30	17·30	33·98	24.680	328.04	.0994	5·46
50	17·00	33·90	24.690	327.70	.1653	5·51
75	16·70	33·86	24.730	324.66	.2473	5·40
100	12·20	33·70	25.562	245.59	.3190	3·48
150	10·87	34·10	26.118	193.72	.4296	1·99
200	10.05	34·30	26.417	166.23	.5202	1·47
250	09.70	34·43	26.577	151.95	.6003	0.75
300	09.33	34·45	26.654	145.49	.6752	0.50
400	07.88	34·39	26.833	129.39	.8137	0.40
500	06.70	34·36	26.976	116.30	.9376	0.31
600	06.02	34·38	27.081	106.99	1.0502	0.22
700	05.35	34·42	27.196	96.51	1.1529	0.25
800	04.90	34·44	27.264	90.44	1.2473	0.34
1000	04.16	34·53	27.417	76.60	1.4162	0.50

STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°14'N 118°31'W; February 11, 1952; 1125 GCT; wire angle: 8°; sounding: 2,200 fms; depth of observation: 1,163 m; weather; over cast; sea: rough; wind: 360°, force 3

00	16.90	33.78	24.622	332.65	000	5.52
10	16.94	33.82	24.643	330·93	.0333	5·50
20	16.80	33.80	24.660	329·57	.0665	5·49
30	16.70	33.80	24.684	327·66	.0995	5·48
50	16.70	33.78	24.668	329·72	.1656	5·45
75	15.60	33.71	24.865	311·61	.2462	4·60
100	12.40	33.76	25.570	244·86	.3162	3·70
150	10.60	33.88	25.994	205·31	.4295	2·90
200	09.93	34.14	26.312	176·05	.5255	2·10
250	09.25	34.23	26.495	159·45	.6100	1·50
300	08.60	34.28	26.638	146·57	.6871	1·04
400	07.35	34.31	26.847	127·60	.8253	0·54
500	06.22	34.29	26.985	114.97	.9476	0·46
600	05.63	34.38	27.130	101.87	1.0570	0·36
700	05.14	34.44	27.236	92.36	1.1550	0.39
800	04.71	34.46	27.302	86.59	1.2454	0·45
1000	03.92	34.50	27.418	75.90	1.4097	0·63

STATION 123.37 (Interpolated Values at Standard Depths)

CREST: 27°23'N 114°41'W; February 14, 1952; 1608 GCT; wire angle: 3°; sounding: 40 fms; depth of observation: 50 m; weather: clear; sea: rough; wind: 020°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	17.33	34.05	24.726	322.67	000	5.40
10	17.34	34.05	24.724	323.22	.0324	5.41
20	17.31	34.09	24.762	319.94	.0647	5.38
30	17.32	34.07	24.744	321.94	.0969	5.45
50	14.44	33.69	25.102	288.25	.1582	4.96

STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°19'N 114°51'W; February 14, 1952; 1257 GCT; wire angle: 18°; sounding: 300 fms; depth of observation 472 m; weather: clear; sea: high; wind: 240°, force 5

00	17.50	34.04	24.678	327.28	000	5.59
10	17.20	33.98	24.704	325.14	.0328	5.53
20	17.20	34.05	24.757	320.35	.0652	5.61
30	17.20	34.03	24.742	322.12	.0975	5.59
50	14.20	33.72	25.176	281.21	.1581	4.86
75	11.80	33.63	25.583	242.92	.2240	3.85
100	11.60	33.99	25.899	213.44	.2814	2.50
150	11.07	34.33	26.261	180.25	.3805	1.25
200	10.55	34.50	26.486	159.91	.4662	0.60
250	10.00	34.52	26.597	150.25	.5443	0.49
300	09.18	34.48	26.702	140.88	.6176	0.45
400	07.82	34.40	26.850	127.76	.7530	0.41
500	(06.52)	(34.43)	(27.056)	(108.65)	(8722)	

STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 27°01'N 115°32'W; February 14, 1952; 0607 GCT; wire angle: 30°; sounding: 1,790 fms; depth of observation: 1,000 m; weather: clear; sea: high; wind: 350°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	17.10	33.86	24.636	331.31	.000	5.49
10	17.11	33.84	24.618	333.30	.0334	5.46
20	17.10	33.88	24.651	330.47	.0667	5.46
30	17.10	33.88	24.651	330.79	.0999	5.46
50	17.10	33.87	24.643	332.13	.1665	5.46
75	16.10	33.86	24.868	311.43	.2474	5.42
100	12.90	33.68	25.410	260.10	.3193	4.77
150	11.08	33.81	25.855	218.70	.4398	2.65
200	10.57	34.44	26.435	164.66	.5363	1.10
250	10.05	34.48	26.557	154.03	.6165	0.65
300	09.10	34.44	26.683	142.56	.6912	0.67
400	07.91	34.42	26.852	127.61	.8274	0.36
500	06.70	34.38	26.992	114.83	.9497	0.32
600	06.12	34.42	27.100	105.37	1.0608	0.24
700	05.51	34.44	27.192	97.10	1.1630	0.26
800	05.00	34.45	27.261	90.97	1.2580	0.41
1000	04.13	34.54	27.428	75.50	1.4263	0.50

STATION 123.60 (Interpolated Values at Standard Depths)

CREST: 26°44'N 116°05'W; February 14, 1952; 0010 GCT; wire angle: 25°; sounding: 1,900 fms; depth of observation: 1,075 m; weather: partly cloudy; sea: high; wind: 330°, force 6

00	17.30	34.00	24.695	325.63	.000	5.46
10	17.34	33.93	24.632	331.96	.0330	5.45
20	17.30	33.98	24.680	327.72	.0661	5.49
30	17.30	33.98	24.680	328.04	.0990	5.49
50	17.10	33.96	24.712	325.59	.1647	5.44
75	16.60	33.95	24.822	315.88	.2453	5.39
100	13.70	33.79	25.334	267.49	.3187	5.11
150	10.74	33.69	25.822	221.68	.4418	3.62
200	10.10	34.34	26.439	164.12	.5389	2.22
250	09.40	34.40	26.603	149.30	.6178	1.31
300	08.84	34.40	26.694	141.42	.6910	0.80
400	07.82	34.36	26.818	130.71	.8282	0.47
500	06.93	34.35	26.937	120.23	.9547	0.32
600	06.14	34.38	27.066	108.59	1.0701	0.30
700	05.43	34.40	27.170	99.03	1.1749	0.31
800	04.96	34.45	27.265	90.46	1.2706	0.34
1000	04.19	34.48	27.374	80.66	1.4436	0.52

STATION 127.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 26°00'N 115°48'W; February 23, 1952; 0304 GCT;
wire angle: 18°; sounding: 2,050fms; depth of observation: 1,110 m;
weather: partly cloudy; sea: rough; wind: 340°, force 5

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.30	34.02	24.711	324.18	.0000	
10	17.30	34.00	24.695	325.95	.0326	
20	17.30	34.01	24.703	325.54	.0653	
30	17.30	34.02	24.711	325.13	.0980	
50	17.30	34.04	24.726	324.30	.1633	
75	17.30	34.04	24.726	325.08	.2449	
100	17.30	33.94	24.649	333.14	.3277	
150	11.36	33.82	25.812	222.86	.4676	
200	10.54	34.20	26.254	181.81	.5695	
250	10.12	34.36	26.451	164.04	.6566	
300	9.40	34.39	26.596	151.04	.7360	
400	8.20	34.38	26.777	134.91	.8801	
500	7.27	34.43	26.953	119.17	1.0082	
600	6.30	34.44	27.093	106.32	1.1220	
700	5.59	34.46	27.198	96.67	1.2245	
800	4.98	34.48	27.287	88.50	1.3180	
1000	4.18	34.52	27.407	77.57	1.4859	

STATION 130.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 26°29'N 113°29'W; February 21, 1952; 0651 GCT;
wire angle: 0°; sounding: 45 fms; depth of observation: 75 m;
weather: clear; sea: moderate; wind: 280°, force 1

0	17.26	34.25	24.898	306.33	.0000
10	17.26	34.33	24.959	300.83	.0305
20	17.27	34.29	24.924	304.47	.0609
30	17.12	34.25	24.929	304.30	.0915
50	15.60	34.05	25.126	286.07	.1508
75	13.16	33.96	25.575	243.89	.2174

STATION 130.35 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 26°18.5'N 113°49.5'W; February 21, 1952; 2232 GCT;
wire angle: 0°; wounding: 150 fms; depth of observation: 198 m;
weather: overcast; sea: moderate; wind: 300°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.76	34.27	24.791	316.53	.0000	
10	17.74	34.49	24.964	300.39	.0310	
20	17.73	34.32	24.836	312.85	.0618	
30	17.72	34.28	24.808	315.84	.0934	
50	17.73	34.31	24.829	314.53	.1568	
75	14.14	34.04	25.435	257.27	.2287	
100	12.94	34.12	25.742	228.59	.2898	
150	12.11	34.54	26.230	183.49	.3935	
200	(11.79)	(34.61)	(26.345)	(173.70)	(.4834)	

STATION 130.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 26°09'N 114°07.5 W; February 22, 1952; 0215 GCT;
wire angle: 9°; sounding: 1,100 fms; depth of observation: 1,136 m;
weather: overcast; sea: rough; wind: 290°, force 3

0	17.80	34.21	24.735	321.81	.0000	
10	17.78	34.20	24.733	322.41	.0323	
20	18.00	34.21	24.687	327.12	.0649	
30	17.70	34.23	24.775	319.02	.0973	
50	17.40	34.02	24.687	328.03	.1623	
75	13.50	33.64	25.259	273.92	.2380	
100	13.70	34.14	25.604	241.87	.3029	
150	12.04	34.38	26.119	193.95	.4126	
200	11.52	34.63	26.411	167.36	.5036	
250	10.44	34.59	26.575	152.52	.5841	
300	9.72	34.56	26.675	143.72	.6587	
400	8.45	34.52	26.849	128.40	.7958	
500	7.14	34.45	26.987	115.82	.9190	
600	6.18	34.49	27.148	101.00	1.0284	
700	5.53	34.49	27.229	93.67	1.1267	
800	4.99	34.49	27.293	87.88	1.2184	
1000	4.13	34.57	27.452	73.28	1.3813	

STATION 130.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°49'N 114°46'W; February 22, 1952; 0845 GCT;
wire angle: 17°; sounding: 1,980 fms; depth of observation: 1,103 m;
weather: overcast; sea: rough; wind: 340°, force 4

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.20	34.14	24.826	31317	.0000	
10	17.20	34.13	24.819	31421	.0315	
20	17.00	34.14	24.874	30929	.0628	
30	17.00	34.14	24.874	30960	.0939	
50	17.00	34.13	24.866	31094	.1563	
75	12.50	33.60	25.427	25786	.2278	
100	11.40	33.71	25.719	23052	.2892	
150	10.29	34.06	26.188	18685	.3943	
200	9.79	34.32	26.476	16049	.4818	
250	9.07	34.31	26.587	15072	.5602	
300	8.56	34.33	26.683	14227	.6340	
400	7.68	34.41	26.878	12496	.7687	
500	6.87	34.42	27.001	11423	.8893	
600	6.01	34.42	27.114	10389	.9993	
700	5.28	34.42	27.204	9562	1.1000	
800	4.80	34.45	27.284	8845	1.1930	
1000	4.13	34.52	27.412	7698	1.3603	

STATION 130.60 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°29'N 115°24'W; February 22, 1952; 1516 GCT;
wire angle: 16°; sounding: 2,050 fms; depth of observation: 1,089 m;
weather: overcast; sea: rough; wind: 340°, force 4

0	16.80	33.87	24714	32385	.0000	
10	16.70	33.93	24.783	31756	.0322	
20	16.70	33.86	24.730	32298	.0644	
30	16.70	33.84	24.714	32474	.0969	
50	16.70	33.84	24.714	32536	.1622	
75	16.50	33.80	24.730	32459	.2439	
100	13.50	33.75	25.344	26650	.3183	
150	11.14	33.90	25.914	21311	.4390	
200	10.09	34.09	26.246	18237	.5386	
250	10.00	34.35	26.464	16278	.6255	
300	9.63	34.43	26.589	15182	.7047	
400	8.22	34.43	26.813	13153	.8475	
500	7.23	34.44	26.966	11786	.9733	
600	6.33	34.45	27.097	10599	1.0862	
700	5.62	34.45	27.187	9780	1.1891	
800	5.06	34.43	27.238	9321	1.2856	
1000	4.26	34.46	27.351	8300	1.4638	

STATION 133.25 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 26°04.5'N 112°48'W; February 21, 1952; 0118 GCT;
wire angle: 0°; sounding: 46 fms; depth of observation: 75 m;
weather: cloudy; sea: slight; wind: 280°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.72	34.45	24.691	326.05	.0000	
10	18.75	34.51	24.729	322.75	.0326	
20	18.60	34.49	24.752	320.95	.0649	
30	18.39	34.49	24.804	316.28	.0969	
50	16.14	34.14	25.073	291.15	.1579	
75	14.11	34.16	25.534	247.89	.2257	

STATION 133.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°54.5'N 113°09'W; February 20, 1952; 2155 GCT;
wire angle: 0°; sounding: 106 fms; depth of observation: 152 m;
weather: cloudy; sea: moderate; wind: 320°, force 3

0	18.93	34.51	24.684	326.75	.0000	
10	18.92	34.51	24.686	326.85	.0328	
20	18.80	34.50	24.709	325.02	.0655	
30	18.77	34.49	24.709	325.37	.0981	
50	18.77	34.47	24.694	327.49	.1637	
75	14.75	34.09	25.344	266.02	.2383	
100	13.89	34.18	25.595	242.70	.3023	
150	12.66	34.45	26.053	200.36	.4138	

STATION 133.40 (Interpolated Values at Standard Depths

BLACK DOUGLAS: 25°34.5'N 113°45.5'W; February 20, 1952; 1625 GCT;
wire angle: 5°; sounding: 1,000 fms; depth of observation: 1,149 m;
weather: partly cloudy; sea: rough; wind: 360°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	19.00	34.53	24.681	326.99	.0000	
10	18.97	34.52	24.681	327.33	.0328	
20	19.00	34.56	24.704	325.49	.0656	
30	19.00	34.56	24.704	325.83	.0983	
50	19.00	34.53	24.681	328.68	.1641	
75	14.60	33.98	25.292	270.99	.2395	
100	13.80	34.27	25.684	234.33	.3031	
150	11.58	34.27	26.120	193.68	.4108	
200	10.83	34.50	26.436	164.72	.5010	
250	10.23	34.54	26.573	152.63	.5809	
300	9.61	34.53	26.670	144.13	.6557	
400	8.06	34.44	26.845	128.37	.7930	
500	7.05	34.46	27.007	113.81	.9151	
600	6.17	34.44	27.109	104.56	1.0253	
700	5.50	34.45	27.201	96.24	1.1267	
800	4.93	34.47	27.285	88.60	1.2201	
1000	4.07	34.53	27.427	75.50	1.3860	

STATION 133.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°14.5'N 114°24'W; February 20, 1952; 0745 GCT;
wire angle: 3°; sounding: 1,680 fms; depth of observation: 1,164 m;
weather: clear; sea: rough; wind: 360°, force 4

0	18.20	34.33	24.729	322.42	.0000
10	18.25	34.52	24.862	310.13	.0318
20	(18.30)	34.37	(24.735)	(322.54)	(.0636)
30	(18.30)	34.36	(24.727)	(323.59)	(.0960)
50	(18.30)	34.38	(24.742)	(322.80)	(.1610)
75	(15.50)	34.27	(25.328)	(267.68)	(.2352)
100	13.80	33.93	25.421	259.22	.3015
150	11.62	34.33	26.159	189.98	.4146
200	10.77	34.49	26.439	164.42	.5038
250	10.06	34.52	26.586	151.26	.5833
300	9.31	34.51	26.704	140.75	.6569
400	7.91	34.45	26.876	125.40	.7910
500	6.96	34.45	27.012	113.27	.9114
600	6.16	34.45	27.119	103.69	1.0209
700	5.48	34.45	27.204	95.97	1.1217
800	4.93	34.45	27.269	90.08	1.2157
1000	4.17	34.52	27.408	77.46	1.3851

STATION 137.23 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°34'N 112°18.5'W; February 18, 1952; 2305 GCT;
wire angle: 0°; sounding: 40 fms; depth of observation: 50 m;
weather: clear; sea: rough; wind: 300°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	19.36	34.52	24.581	336.48	.0000	
10	19.35	34.54	24.599	335.14	.0337	
20	19.20	34.51	24.615	333.99	.0673	
30	19.13	34.56	24.671	328.99	.1006	
50	10.86	34.33	26.298	174.34	.1512	

STATION 137.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°20'N 112°45.5'W; February 19, 1952; 0315 GCT;
wire angle: 5°; sounding: 100 fms; depth of observation: 148 m;
weather: clear; sea: rough; wind: 300°, force 6

00	19.66	34.51	24.496	344.59	.0000
10	19.67	34.56	24.532	341.57	.0344
20	19.70	34.53	24.501	344.83	.0689
30	19.70	34.51	24.486	346.62	.1036
50	19.54	34.49	24.512	344.81	.1731
75	15.15	34.04	25.218	278.00	.2514
100	13.30	34.29	25.800	223.30	.3145
150	(12.39)	(34.60)	(26.222)	(184.29)	(4171)

.5176
.9133

STATION 137.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 25°03.5'N 113°26'W; February 19, 1952; 1312 GCT;
wire angle: 5°; sounding 1,200 fms; depth of observation: 10 m;
weather: partly cloudy; sea: very rough; wind: 330°, force 6-7

00	19.48	34.51
10	19.46	34.56

STATION 137.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°40'N 114°02'W; February 19, 1952; 2323 GCT;
wire angle: 21°; sounding: 1,600 fms; depth of observation: 1,129 m;
weather: clear; sea: rough; wind: 360°, force 6

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	20.00	34.36	24.293	36392	.0000	
10	19.50	34.58	24.591	33592	.0351	
20	19.00	34.38	24.567	33856	.0690	
30	18.80	34.35	24.595	33624	.1029	
50	18.80	34.35	24.595	33691	.1706	
75	16.10	33.96	24.945	30415	.2512	
100	12.40	33.69	25.516	25002	.3209	
150	11.44	34.13	26.038	20147	.4345	~.516
200	10.46	34.33	26.369	17089	.5283	
250	09.98	34.48	26.569	15287	.6098	
300	09.49	34.51	26.674	14365	.6845	
400	08.31	34.42	26.792	13363	.8242	
500	07.16	34.43	26.968	11759	.9509	
600	06.33	34.43	27.081	10748	1.0644	
700	05.54	34.43	27.168	09954	1.1689	
800	05.01	34.45	27.259	09110	1.2652	
1000	04.18	34.51	27.399	07832	1.4365	

STATION 140.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°45.5'N 112°24'W; February 16, 1952; 1725 GCT;
wire angle: 5°; sounding: 60 fms; depth of observation: 97 m;
weather: partly cloudy; sea: rough; wind: 010°, force 2

00	19.92	34.47	24.398	353.96	.0000
10	19.87	34.52	24.449	349.43	.0353
20	19.82	34.49	24.439	350.71	.0704
30	19.60	34.45	24.466	348.49	.1055
50	16.60	34.16	24.983	299.81	.1707
75	13.55	34.18	25.666	235.32	.2380
100	(13.27)	(34.29)	(25808)	(222.48)	(2956)

STATION 140.35 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°36'N 112°43'W; February 16, 1952; 1353 GCT;
wire angle: 0°; sounding: 100 fms; depth of observation: 150 m;
weather: partly cloudy; sea: rough; wind: 020°, force 2

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	20.38	34.53	24.322	361.17	.0000	
10	20.38	34.54	24.330	360.80	.0362	
20	20.37	34.52	24.317	362.34	.0725	
30	20.34	34.51	24.318	362.67	.1089	
50	20.11	34.53	24.394	356.12	.1811	
75	15.50	34.04	25.151	284.47	.2616	
100	12.70	34.06	25.743	228.45	.3261	
150	11.98	34.49	26.216	184.77	.4301	

STATION 140.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°25.5'N 113°02'W; February 16, 1952; 1000 GCT;
wire angle: 15°; sounding: 1,700 fms; depth of observation: 1,098 m;
weather: partly cloudy; sea: rough; wind: 350°, force 3

00	19.80	34.58	24.513	342.99	0000	
10	19.80	34.56	24.498	344.79	.0345	
20	19.80	34.57	24.506	344.41	.0691	
30	19.80	34.57	24.506	344.76	.1037	
50	18.60	34.27	24.584	337.93	.1723	
75	14.70	33.89	25.201	279.61	.2499	
100	12.40	34.10	25.833	219.91	.3127	
150	11.09	34.24	26.187	187.23	.4152	
200	09.99	34.33	26.450	163.03	.5034	
250	09.63	34.41	26.573	152.28	.5828	
300	09.14	34.47	26.700	140.98	.6567	
400	08.17	34.49	26.868	126.34	.7914	
500	07.26	34.49	27.001	114.59	.9129	
600	06.27	34.49	27.136	102.23	1.0223	
700	05.54	34.47	27.212	95.28	1.1220	
800	05.00	34.47	27.276	89.48	1.2153	
1000	04.20	34.50	27.390	79.50	1.3860	

STATION 140.50 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°05'N 113°39.5W; February 16, 1952; 0349 GCT;
wire angle: 15°; sounding: 1,680 fms; depth of observation: 1,139 m;
weather: partly cloudy; sea: rough; wind: 320°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (gm/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	19.50	34.34	24.408	352.97	.0000	
10	19.50	34.54	24.561	338.81	.0347	
20	19.50	34.46	24.500	344.96	.0690	
30	19.50	34.41	24.462	348.93	.1038	
50	19.30	34.45	24.544	341.81	.1732	
75	16.70	33.92	24.776	320.29	.2564	
100	13.90	33.66	25.193	280.97	.3320	
150	11.08	33.97	25.979	206.92	.4548	
200	11.12	34.53	26.407	167.58	.5491	
250	10.58	34.55	26.519	157.85	.6310	
300	09.72	34.55	26.667	144.46	.7072	
400	08.19	34.48	26.857	127.38	.8442	
500	07.19	34.49	27.011	113.58	.9657	
600	06.29	34.49	27.133	102.49	1.0747	
700	05.67	34.49	27.212	95.50	1.1746	
800	05.13	34.51	27.293	88.19	1.2674	
1000	04.22	34.56	27.435	75.12	1.4325	

STATION 143.26 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 24°19'N 111°48'W; February 15, 1952; 1144 GCT;
wire angle: 0°; sounding: 48 fms; depth of observation: 75 m;
weather: clear; sea: moderate; wind: 010°, force 1

00	20.16	34.54	24.388	354.89	.0000
10	20.19	34.60	24.426	351.66	.0355
20	20.17	34.57	24.408	353.67	.0709
30	20.15	34.48	24.345	360.04	.1067
50	17.67	34.25	24.798	317.51	.1748
75	15.00	34.22	25.390	261.72	.2476

STATION 143.30 (Interpolated Values at Standard Depths

BLACK DOUGLAS: 24°11'N 112°03'W; February 15, 1952; 1425 GCT;
wire angle: 3°; sounding: 100 fms; depth of observation: 118 m;
weather: partly cloudy; sea: rough; wind: 360°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	19.92	34.42	24.360	357.58	.0000	
10	19.94	34.45	24.378	356.25	.0358	
20	19.93	34.40	24.342	359.97	.0718	
30	19.92	34.38	24.330	361.52	.1080	
50	19.90	34.41	24.358	359.55	.1805	
75	17.50	34.27	24.854	312.94	.2650	
100	13.56	34.15	25640	238.38	.3344	

STATION 143.35 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°59'N 112°18.5'W; February 15, 1952; 1814 GCT;
wire angle: 3°; sounding: 200 fms; depth of observation: 292 m;
weather: partly cloudy; sea: rough; wind: 010°, force 3

00	20.86	34.56	24.217	371.24	.0000	
10	20.88	34.52	24.181	375.02	.0375	
20	20.79	34.52	24.205	373.06	.0751	
30	20.58	34.52	24.261	368.05	.1123	
50	17.04	34.00	24.757	321.32	.1816	
75	13.63	33.86	25.402	260.34	.2547	
100	13.60	34.25	25.709	231.84	.3166	
150	12.09	34.56	26.249	181.64	.4207	
200	11.31	34.60	26.426	165.80	.5082	
250	10.78	34.60	26.523	157.64	.5896	
300	(10.20)	(34.64)	(26.656)	(145.86)	(.6661)	

STATION 147.20 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°56'N 111°03.5'W; February 15, 1952; 0437 GCT;
wire angle: 0°; sounding: 70 fms; depth of observation: 100 m;
weather: clear; sea: moderate; wind: 270°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	21.08	34.58	24.172	375.48	.0000	
10	21.08	34.61	24.195	373.67	.0376	
20	21.04	34.58	24.183	375.16	.0752	
30	20.96	34.56	24.190	374.90	.1129	
50	18.46	34.34	24.672	329.50	.1837	
75	16.50	34.48	25.251	275.06	.2597	
100	15.34	34.51	25.538	248.43	.3256	

STATION 147.25 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°47'N 111°23'W; February 14, 1952; 2345 GCT;
wire angle: 0°; sounding: 48 fms; depth of observation 75 m;
weather: clear; sea: moderate; wind: 270°, force 2

00	21.18	34.54	24.115	380.97	.0000	
10	20.85	34.54	24.204	372.79	.0378	
20	20.66	34.54	24.255	368.28	.0750	
30	20.52	34.52	24.277	366.52	.1119	
50	17.45	34.32	24.904	307.36	.1796	
75	16.03	34.42	25.313	269.09	.2521	

STATION 147.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°34'N 111°44'W; February 14, 1952; 1757 GCT;
wire angle: 0°; sounding: 75 fms; depth of observation: 75 m;
weather: clear; sea: moderate; wind: 330°, force 1

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	21.92	34.60	23.956	396.06	.0000	
10	21.90	34.60	23.962	395.91	.0398	
20	21.86	34.58	23.958	396.66	.0796	
30	21.85	34.57	23.953	397.49	.1195	
50	21.75	34.61	24.011	392.68	.1989	
75		34.43				

STATION 150.19 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°25'N 110°40.5'W; Februaary 13, 1952; 1951 GCT;
wire angle: 3°; sounding: 100 fms; depth of observation: 146 m;
weather: cloudy; sea: moderate; wind: 030°, force 3

00	21.72	34.60	24.012	390.77	.0000
10	21.51	34.60	24.070	385.61	.0390
20	21.30	34.59	24.120	381.21	.0775
30	21.07	34.55	24.152	378.46	.1156
50	17.00	34.33	25.019	296.39	.1834
75	14.69	34.50	25.672	234.84	.2502
100	13.81	34.61	25.944	209.65	.3061
150	(12.70)	(34.67)	(26.215)	(184.99)	(.4054)

STATION 150.25 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°11'N 111°03'W; February 13, 1952; 2327 GCT;
wire angle: 5°; sounding: 600 fms; depth of observation: 954 m.
weather: cloudy; sea: moderate; wind: 300°, force 3

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
00	21.40	34.60	24100	382.36	.0000	
10	21.19	34.60	24.158	377.25	.0381	
20	21.10	34.60	24.182	375.27	.0759	
30	21.00	34.60	24.209	373.04	.1135	
50	20.40	34.60	24.370	358.37	.1870	
75	16.80	34.40	25.120	287.57	.2682	
100	12.30	34.31	26.015	202.63	.3299	
150	12.68	34.65	26.204	186.07	.4277	
200	12.01	34.67	26.349	173.34	.5182	
250	11.30	34.67	26.483	161.66	.6026	
300	10.65	34.65	26.585	152.82	.6818	
400	08.91	34.57	26.816	131.90	.8253	
500	07.59	34.48	26.946	120.13	.9524	
600	06.43	34.44	27.075	108.10	1.0675	
700	05.64	34.41	27.153	101.01	1.1731	
800	05.14	34.48	27.268	90.54	1.2699	
1000	(04.22)	(34.66)	(27.514)	(67.75)	(1.4299)	

STATION 150.30 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 23°02'N 111°20'W; February 14, 1952; 0315 GCT;
wire angle: 19°; sounding: 1,480 fms; depth of observation: 1,098 m;
weather: cloudy; sea: moderate; wind: 320°, force 3

00	23.00	34.51	23583	431.72	.0000	
10	23.12	34.49	23.533	436.85	.0436	
20	23.10	34.50	23.546	435.94	.0874	
30	23.10	34.51	23.554	435.60	.1312	
50	22.40	34.51	23.754	417.27	.2169	
75	16.90	34.20	24.943	304.38	.3076	
100	14.00	34.44	25.773	225.89	.3743	
150	12.38	34.49	26.139	192.16	.4795	
200	11.69	34.62	26.371	171.16	.5710	
250	11.02	34.64	26.510	158.89	.6541	
300	10.31	34.64	26.637	147.73	.7313	
400	08.76	34.56	26.832	130.27	.8714	
500	07.49	34.51	26.984	116.45	.9958	
600	06.44	34.51	27.129	103.07	1.1065	
700	05.67	34.51	27.228	94.04	1.2060	
800	05.08	34.51	27.299	87.55	1.2977	
1000	04.25	34.52	27.400	78.45	1.4655	

STATION 150.40 (Interpolated Values at Standard Depths)

BLACK DOUGLAS: 22°42'N 111°57.5'W; February 14, 1952; 0923 GCT;
wire angle: 14°; sounding: 1,900 fms; depth of observation: 1,102 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)
00	22.20	34.54	23.833	407.87	.0000	
10	22.20	34.54	23.833	408.25	.0410	
20	22.20	34.53	23.825	409.34	.0820	
30	22.10	34.48	23.815	410.64	.1232	
50	18.10	34.20	24.654	331.17	.1978	
75	14.70	34.23	25.462	254.77	.2715	
100	13.70	34.18	25.635	238.93	.3336	
150	12.54	34.63	26.216	184.91	.4403	
200	11.67	34.69	26.429	165.66	.5286	
250	11.11	34.69	26.533	156.81	.6098	
300	10.38	34.67	26.648	146.71	.6863	
400	08.52	34.60	26.900	123.58	.8225	
500	07.21	34.59	27.087	106.48	.9385	
600	06.26	34.47	27.121	103.56	1.0445	
700	05.59	34.50	27.230	93.71	1.1441	
800	05.11	34.53	27.311	86.46	1.2351	
1000	04.31	34.54	27.409	77.72	1.4011	

OBSERVED DEPTHS

HORIZON: STATION 80.51

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	12.33	33.30	5.94
10	12.21	33.30	5.86
20	11.77	33.33	5.75
30	11.74	33.35	5.69
50	11.04	33.49	4.26
75	10.52	33.60	3.66

HORIZON: STATION 80.55

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	12.7	33.21	6.31
10	12.57	33.24	6.29
25	12.5	33.22	6.25
50	12.4	33.30	6.13
74	11.3	33.51	4.14
98	10.08	33.60	3.75
148	9.02	33.96	2.64
193	8.67	34.05	2.33
240	8.32	34.11	2.04
286	7.52	34.13	1.63
337	7.12	34.16	1.25
384	6.56	34.16	1.04
431	6.11	34.18	0.83
479	5.92	34.20	0.68
583	5.52	34.27	0.48

HORIZON: STATION 80.60

0	12.9	33.24	6.36
10	12.85	33.21	6.39
24	12.8	33.24	6.38
48	12.8	33.24	6.42
73	11.8	33.22	5.96
97	9.28	33.13	5.22
145g	8.60a	33.69	3.39
148	8.68	33.80	3.23
192	8.34	33.98	2.80
228	7.87	34.04	2.59
353	6.52	34.11	1.09
475	5.88	34.29	0.54
694	4.88	34.36	0.32
905	4.12	34.40	0.49
1139	3.58	34.47	0.77

HORIZON: STATION 80.70

0	12.5	32.95	6.29
8	12.47	32.94	6.29
21	12.4	32.99	6.27
41	12.3	32.95	6.30
61	12.2	32.95	6.25
80	10.92	32.92	5.81
118	9.13	33.31	4.67
153	8.67	33.77	3.40
223	8.28	34.07	1.57
296	7.74	34.20	1.14
366	7.28	34.18	1.02
439	6.30	34.14	0.85
589	5.18	34.27	0.40
754	4.54	34.36	0.34
943	4.02	34.45	0.53

HORIZON: STATION 80.80

0	12.8	33.04	6.26
10	12.74	33.03	6.28
25	12.7	32.97	6.27
49	12.7	33.03	6.28
73	12.2	33.03	6.11
97	10.55	32.99	5.60
150	9.47	33.62	3.62
185	8.74	33.86	3.02
216g	8.45a	33.49a	4.07a
252	7.85	34.00	2.62
383	6.60	34.09	1.22
491	5.58	34.18	0.71
730	4.67	34.34	0.31
934	3.98	34.45	0.51
1145	3.46	34.49	0.80

HORIZON: STATION 80.90

0	13.1	33.17	6.27
10	13.09	33.17	6.25
25	13.1	33.17	6.25
49	13.1	33.15	6.29
73	13.1	33.24	6.21
97	11.14	33.12	5.55
147	8.93	33.57	3.97
191	8.29	33.91	3.47
282	7.14	33.96	2.66
378	6.10	34.09	1.27
469	5.84	34.20	0.61
565	5.40	34.29	0.38
757	4.53	34.36	0.35
948	3.91	34.43	0.51
1151	3.48	34.48	0.73

OBSERVED DEPTHS

HORIZON: STATION 80.100

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	13.3	33.01	6.21
10	13.08	32.99	6.22
24	13.0	32.97	6.21
48	13.0	32.97	6.22
71	12.5	33.10	5.89
94	10.28	33.01	5.70
145	9.42	33.64	3.42
169 g	9.32 a	33.04 a	-
189	9.00	33.91	2.55
208	8.84	34.00	2.15
314	7.55	34.08	1.78
462	6.18	34.13	0.86
689	5.08	34.31	0.33
912	4.16	34.47	0.47
1133	3.61	34.49	0.72

HORIZON: STATION 85.38

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	12.11	33.37	5.41
10	12.08	33.37	5.40
20	11.95	33.37	5.28
30	11.15	33.37	4.62
50	10.54	33.30	4.09
75	10.30	33.58	3.80

HORIZON: STATION 85.40

0	13.2	33.30	6.13
8	13.10	33.26	6.13
21	13.1	33.26	6.06
41	12.9	33.26	5.99
61	11.9	33.35	5.10
81	10.24	33.49	4.26
120	9.46	33.82	2.93
155	9.04	34.04	2.05 a
192	8.70	34.09	2.48
214	8.46	34.13	1.94
256	8.06	34.17	1.52
297	7.84	34.20	1.32
339	7.52	34.23	1.02
382	7.29	34.23	0.85
474	6.64	34.31	0.50

HORIZON: STATION 85.50

0	13.17	33.28	6.23
9	13.16	33.26	6.28
23	13.15	33.28	6.27
29 e	11.04 a	33.73 a	3.32 a
47	11.90	33.30	5.70
69	10.20	33.49	4.23
92	9.92	33.75	3.35
143	8.96	33.84	3.08

HORIZON: STATION 85.60

0	12.9	33.24	6.19
9	12.92	33.24	6.18
23	12.9	33.28	-
44	13.0	33.28	6.10
65	11.0	33.48	4.25
86	9.82	33.51	3.99
129	8.91	33.89	3.03
168	8.60	33.98	2.69
247	7.64	34.13	1.69
333	7.08	34.22	1.24
416	6.47	34.22	0.76
506	6.04	34.42	0.52
594	5.58	34.31	0.39
690	5.04	34.33	0.37
881	4.38	34.43	0.45

HORIZON: STATION 85.70

0	12.9	33.28	6.19
8	12.89	33.26	6.19
20	12.8	33.30	6.17
45	12.8	33.27	5.99
65	12.8	33.29	5.89
89	10.07	33.48	4.00
134	9.12	33.77	3.28
177	8.56	33.98	2.68
265	7.35	34.07	1.94
357	6.86	34.18	1.00
446	6.14	34.40	0.61
535	5.54	34.27	0.47
715	4.72	34.34	0.34
905	4.20	34.42	0.44
1098	3.67	34.47	0.74

OBSERVED DEPTHS

HORIZON: STATION 90.28

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.5	33.22	6.15
10	14.18	33.24	6.18
25	14.12	33.23	6.19
49	11.72	33.31	5.07
72	10.40	33.46	4.16
94	10.41	33.60	3.83
144	9.63	33.84	3.01
190	9.04	34.14	2.16
236	8.54	34.20	1.76
283	8.06	34.18	1.53
335	7.52	34.25	1.09
385	7.12	34.20	0.86

HORIZON: STATION 90.37

0	14.2	33.26	6.05
10	14.2	33.22	6.09
25	14.11	33.35	6.10
49	12.9	33.28	5.50
73	10.8	33.44	4.49
97	10.2	33.58	3.94
146	9.38	33.93	2.68
190	8.67	34.07	2.53
235	8.32	34.16	1.72
279	7.84	34.13	1.40
374	7.00	34.22	0.93
463	6.50	34.27	0.53
560	5.94	34.31	0.35
653	5.39	34.36	0.30
752	4.92	34.38	0.30
948	4.29	34.49	0.44

HORIZON: STATION 90.45 DEEP

746	4.86	34.38	0.34
841	4.51	34.38	0.36
941	4.16	34.42	0.46
1036	3.94	34.42	0.60
1129	3.88	34.45	0.56
1227	3.80	34.45	0.58
1327	3.76	34.45	0.54
1422	3.74	34.45	0.63
1526	3.76	34.45	0.59

HORIZON: STATION 90.30

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.6	33.24	6.11
10	14.27	33.24	6.15
25	14.06	33.26	6.19
49	11.98	33.30	5.66
65 g	11.48a	33.58a	4.00a
73	10.76	33.37	4.72
96	10.02	33.58	3.88
148	9.33	33.95	2.87
195	9.02	34.12	2.16
230	8.80a	33.95a	2.84a
243	8.39	34.18	1.62
254	8.26a	34.07a	2.23a

HORIZON: STATION 90.45

0	14.1	33.22	6.05
10	13.98	33.24	6.01
24	14.1	33.24	6.01
48	13.6	33.17	5.90
72	11.6	33.11	5.55
95	10.12	33.22	5.02
145	9.21	33.63	3.74
189	8.46	33.91	2.92
276	7.80	34.27	1.72
370	7.08	34.22	0.75
459	6.38	34.22	0.45
554	5.82	34.23	0.49
742	4.88	34.38	0.36
931	4.17	34.47	0.48
1133	3.85	34.49	0.59

HORIZON: STATION 90.53

0	14.0	33.15	6.16
8	13.99	33.19	6.11
22	14.0	33.15	6.12
45	13.9	33.15	6.16
65	12.7	33.13	6.02
86	10.87	33.12	5.60
132	9.23	33.55	4.22
148 g	9.31a	33.12a	5.79a
164	8.74a	33.78a	3.60a
172	8.60	33.78	3.59
185	7.34a	34.05a	2.03a
433	6.58	34.14	1.20
533	6.02	34.25	0.52
655	5.26	34.29	0.35
866	4.53	34.40	0.45

OBSERVED DEPTHS

HORIZON: STATION 90.60

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	13.6	33.21	6.12
8	13.51	33.19	6.11
20	13.4	33.22	6.12
40	13.4	33.22	6.09
60	12.2	33.22	5.60
78	10.50	33.40	4.45
118	9.13	33.57	4.05
155	8.55	33.80	3.49
229	7.74	34.04	2.34
309	6.81	34.07	1.59
389	6.18	34.16	0.90
475	5.76	34.20	0.53
560	5.47	34.29	0.36
653	4.89	34.34	0.32
841	4.36	34.42	0.43

HORIZON: STATION 90.80

0	14.6	33.17	5.99
9	14.61	33.24	6.10
23	14.6	33.20	6.01
49	14.5	33.21	6.03
70	14.5	33.21	6.00
75g	9.88a	33.15a	6.07
95	13.82	33.21	6.03
138	10.45	33.12	5.44
181	9.11	33.57	4.16
203	8.60	33.75	4.03
322	6.88	34.00	2.11
440	6.07	34.16	0.88
684	5.02	34.34	0.34
910	4.20	34.40	0.48
1144	3.58	34.49	0.78

HORIZON: STATION 93.27

0	14.75	33.21	5.98
10	14.48	33.24	6.04
20	14.32	33.21	6.00
30	14.18	33.24	6.09
50	13.72	33.23	5.99

HORIZON: STATION 90.70

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.0	33.15	6.01
8	14.05	33.12	6.05
19	14.1	33.07	6.05
39	14.1	33.13	6.04
57	13.6	33.12	6.16
78	12.98	33.17	5.90
112	9.63	33.08	5.25
147	9.20	33.51	4.11
151g	9.30a	32.99a	5.67a
166	8.65	33.73	3.69
273	7.28	34.02	2.03
383	6.12	34.09	1.14
610	5.26	34.29	0.34
797	4.52	34.38	0.43
915	4.24	34.43	0.64

HORIZON: STATION 90.90

0	14.8	33.19	5.96
8	14.69	33.15	6.00
22	14.6	33.22	5.99
48	14.6	33.19	5.98
69	14.5	33.21	5.98
93	14.66	33.19	5.98
137	11.43	33.21	5.50
181	9.10	33.53	4.17
268	7.95	33.95	3.18
361	6.80	34.02	1.74
451	5.88	34.16	0.84
542	5.44	34.22	0.50
727	4.72	34.34	0.36
923	4.12	34.42	0.51
1120	3.61	34.49	0.76

HORIZON: STATION 93.30

0	14.6	33.28	5.95
10	14.34	33.22	5.95
25	14.3	33.26	5.95
49	12.8	33.22	5.50
73	11.1	33.35	4.64
97	10.61	33.53	3.94
147	9.82	33.87	2.85
192	9.39	34.10	2.14
237	8.96	34.22	1.72
283	8.38	34.23	1.40
333	7.90	34.27	1.05
379	7.37	34.22	0.80
474	6.61	34.25	0.53
575	5.99	34.27	0.35
673	5.51	34.33	0.31

OBSERVED DEPTHS

HORIZON: STATION 93.40

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.3	33.19	6.07
10	14.30	33.21	6.09
25	14.3	33.22	6.01
50	13.8	33.30	5.78
74	11.9	33.22	4.31a
98	10.41	33.48	5.10
150	9.43	33.87	3.04
196	8.88	34.04	2.35
288	7.96	34.16	1.40
383	7.00	34.23	0.77
476	6.32	34.30	0.44
574	5.74	34.35	0.36
767	4.76	34.43	0.35
957	4.06	34.42	0.54
1159	3.65	34.51	0.74

HORIZON: STATION 93.50

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.3	33.22	6.00
10	14.28	33.28	6.02
25	14.1	33.24	6.01
49	13.9	33.22	6.06
73	12.4	33.26	5.51
97	11.06	33.30	4.83
147	9.71	33.78	3.29
192	9.18	33.98	2.61
282	7.86	34.16	1.46
378	6.84	34.25	0.80
468	6.22	34.40	0.48
564	5.68	34.33	0.37
754	4.76	-	0.35
945	4.18	34.45	0.49
1146	3.59	34.49	0.75

HORIZON: STATION 93.60

0	14.7	33.21	5.89
10	14.65	33.22	5.90
25	14.2	33.21	6.03
49	13.9	33.19	6.08
73	13.6	33.21	5.92
97	11.62	33.10	5.60
147	9.61	33.48	4.50
192	8.55	33.82	3.49
281	7.72	34.07	2.28
375	6.69	34.13	1.26
467	6.22	34.23	0.63
562	5.58	34.29	0.36
753	4.66	34.40	0.35
942	4.09	34.45	0.56
1144	3.64	34.51	0.75

HORIZON: STATION 93.70

0	14.7	33.12	5.95
10	14.22	33.19	5.98
25	14.1	33.19	6.02
49	13.4	33.21	5.92
73	12.8	33.10	5.75
96	11.04	33.06	5.38
146	9.22	33.42	4.26
191	8.56	33.78	3.42
280	8.11	34.14	1.63
373	7.08	34.20	0.97
465	6.07	34.20	0.64
559	5.56	34.27	0.41
750	4.81	34.42	0.34
941	4.18	34.43	0.52
1141	3.78	34.49	0.67

HORIZON: STATION 97.30

0	13.99	33.24	6.01
10	13.98	33.22	6.00
20	13.98	33.22	5.94
25	13.94	33.21	5.96
30	13.48	33.28	5.69

HORIZON: STATION 97.32

0	14.5	33.28	5.99
9	14.28	33.28	5.96
23	14.2	33.26	5.91
50	13.6	33.24	5.80
72	12.1	33.39	4.80
98	10.38	33.40	4.40
144	9.29	33.77	3.52
188	8.76	33.98	2.35
280	8.61	34.23	1.27
376	7.32	34.23	0.84
469	6.59	34.27	0.49
564	5.94	34.30	0.35
752	4.92	34.38	0.32
948	4.14	34.43	0.52
1146	3.56	34.51	0.76

OBSERVED DEPTHS

HORIZON: STATION 97.40

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.9	33.21	5.92
10	14.21	33.19	5.94
25	14.2	33.19	5.92
50	13.5	33.17	5.90
75	11.9	33.06	5.52
99	10.10	33.17	4.94
159	9.15	33.64	3.78
196	8.72	33.96	2.76
287	7.54	34.07	2.07
384	7.10	34.22	-
476	6.40	34.22	0.45
574	5.82	34.36	0.35
767	4.69	34.42	0.36
959	3.98	34.43	0.56
1159	3.46	34.51	0.87

HORIZON: STATION 97.60

0	14.9	33.42	5.92
10	14.88	33.39	5.95
25	14.8	33.46	5.97
49	14.7	33.44	5.92
73	13.3	33.35	5.23
97	11.12	33.44	4.41
147	9.95	33.95	3.54
193	9.10	34.07	2.32
284	8.44	34.25	1.29
379	7.22	34.25	0.85
470	6.44	34.29	0.48
567	5.72	34.34	0.41
757	4.76	34.40	0.36
948	4.16	34.44	0.47
1148	3.65	34.51	0.87

HORIZON: STATION 100.29

0	13.76	33.28	5.99
10	13.84	33.35	6.03
20	13.60	33.33	5.94
30	13.55	33.37	5.91
50	13.18	33.40	5.59

HORIZON: STATION 97.50

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.8	33.21	5.92
10	14.62	33.22	5.91
25	14.5	33.21	5.93
50	14.4	33.21	5.89
74	13.8	33.21	5.71
98	11.86	33.30	5.03
150	9.32	33.57	3.92
196	8.68	33.96	2.86
289	7.54	34.09	1.96
386	7.00	34.20	0.79
479	6.37	34.29	0.49
577	5.80	34.31	0.33
771	4.67	34.40	0.34
964	3.99	34.45	0.55
1165	3.51	34.51	0.78

HORIZON: STATION 97.70

0	14.7	33.19	5.94
10	14.45	33.15	5.96
25	14.3	33.21	6.01
50	13.9	33.19	6.27
75	13.4	33.19	5.98
99	11.20	33.12	5.54
150	8.97	33.60	4.21
196	8.36	33.89	3.40
288	7.55	34.07	1.95
386	6.34	34.20	0.90
480	5.96	34.27	0.45
578	5.42	34.41	0.33
773	4.54	34.42	0.35
966	3.92	34.45	0.58
1168	3.53	34.49	0.85

HORIZON: STATION 100.30

0	13.93	33.22	5.99
9	14.05	33.33	6.07
22	13.68	33.37	6.09
43	13.12	33.39	5.63
63	12.53	33.40	4.94
82	12.04	33.46	4.51
126	11.06	33 58	3.80
171	9.71	34 07	1.93

OBSERVED DEPTHS

HORIZON: STATION 100.40

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.4	33.10	5.99
9	14.34	33.26	6.02
23	14.2	33.21	6.02
47	13.9	33.24	6.05
69	12.6	33.30	4.94
92	11.70	33.44	4.41
140	10.48	33.80	2.92
183	9.41	34.00	2.66
269	8.92	34.27	1.20
359	7.66	34.23	0.97
446	6.79	34.29	0.60
539	6.08	34.34	0.36
723	5.01	34.38	0.33
909	4.27	34.43	0.48
1107	3.73	34.47	0.83

HORIZON: STATION 100.50

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.7	33.24	5.92
10	14.61	33.26	5.95
24	14.4	33.22	5.99
53	14.1	33.22	5.96
77	12.4	33.12	5.62
106	11.12	33.46	4.10
156	10.22	33.96	2.54
207	9.66	34.16	1.87
307	8.19	34.20	1.54
413	6.86	34.23	0.86
514	6.32	34.31	0.41
615	5.72	34.34	0.31
814	4.67	34.42	0.38
1018	3.96	34.45	0.63
1219	3.47	34.52	0.88

HORIZON: STATION 100.60

0	15.3	33.34	5.86
9	15.12	33.37	5.82
23	15.0	33.35	5.85
52	14.8	33.33	5.86
74	14.4	33.35	5.85
100	11.87	33.21	5.41
145	9.64	33.58	3.97
188	9.18	33.89	3.07
277	8.20	34.16	1.78
372	7.44	34.33	0.78
463	6.70	34.31	0.37
554	6.06	34.33	0.27
740	4.87	34.38	0.33
935	4.14	34.45	0.53
1131	3.59	34.52	0.76

HORIZON: STATION 100.70

0	15.3	33.35	5.82
9	15.03	33.33	5.79
22	14.9	33.31	5.89
44	14.6	33.31	5.94
66	14.5	33.31	5.88
87	12.10	33.17	5.44
130	9.81	33.44	4.44
169	9.02	33.78	3.28
244	8.34	34.04	2.26
327	7.28	34.11	1.55
404	6.80	34.16	0.83
487	6.24	34.31	0.45
652	5.32	34.36	0.28
827	4.50	34.42	0.43
1022	3.94	34.47	0.68

HORIZON: STATION 100.80

0	14.8	33.24	5.97
10	14.62	33.31	5.96
25	14.3	33.24	5.99
50	14.2	34.28	5.97
75	13.3	33.15	5.65
99	10.90	33.22	5.06
150	9.73	33.78	3.34
196	8.90	33.96	1.95
290	7.76	34.13	1.66
387	6.77	34.16	0.84
479	5.81	34.14	0.55
578	5.36	34.27	0.36
771	4.62	34.38	0.41
963	3.97	34.43	0.58
1164	3.47	34.51	0.82

HORIZON: STATION 100.90

0	15.1	33.20	5.87
10	14.99	33.21	5.89
25	14.6	33.19	5.90
50	14.4	33.19	5.89
74	14.1	33.19	5.87
98	11.72	33.03	5.73
149	10.01	33.48	4.43
195	8.94	33.87	3.55
286	8.00	34.11	2.15
383	6.92	34.18	0.99
473	6.16	34.22	0.63
570	5.60	34.25	0.42
761	4.78	34.36	0.36
952	4.14	34.42	0.54
1153	3.59	34.52	0.80

OBSERVED DEPTHS

HORIZON: STATION 105.32

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	14.31	33.41	6.02
20	13.99	33.44	5.92
30	13.85	33.42	5.94
40	13.70	33.42	5.84
50	12.29	33.37	4.83

HORIZON: STATION 105.35

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	15.3	33.42	5.84
15	14.89	33.44	5.83
40	14.8	33.44	5.83
66	13.4	33.35	5.27
90	11.2	33.44	4.33
143	9.69	33.78	3.24
190	8.90	34.04	2.45
238	8.24	34.05	2.72
284	7.88	34.14	1.62
383	7.06	34.25	0.71
478	6.12	34.40	0.49
576	5.67	34.33	0.29
770	4.77	34.41	0.42
963	4.09	34.49	0.56
1165	3.63	34.52	0.74

HORIZON: STATION 105.40

0	16.1	33.46	5.86
10	15.01	33.48	5.85
25	14.8	33.46	5.83
50	14.6	33.43	5.65
74	11.8	33.37	4.67
98	10.74	33.55	4.12
149	9.32	33.89	2.94
196	8.65	34.00	2.70
287	8.27	34.20	1.22
382	7.08	34.25	0.65
474	6.41	34.27	0.42
571	5.70	34.34	0.27
764	4.76	34.38	0.34
954	4.10	34.45	0.51
1156	3.69	34.51	0.70

HORIZON: STATION 105.50

0	16.5	33.44	5.76
10	15.67	33.51	5.74
25	15.6	33.44	5.79
50	15.5	33.45	5.74
74	14.9	33.35	5.79
98	13.06	33.35	5.27
148	10.15	33.57	4.44
193	9.10	33.87	3.19
284	7.89	34.11	2.03
377	7.33	34.22	0.80
468	6.66	34.27	0.47
563	5.95	34.33	0.32
754	5.00	34.38	0.35
942	4.24	34.43	0.54
1143	3.69	34.49	0.73

HORIZON: STATION 105.60

0	16.2	33.44	5.73
10	15.70	33.46	5.76
25	15.6	33.46	5.77
50	15.6	33.46	5.79
73	15.5	33.46	5.79
97	13.78	33.40	5.32
149	10.97	33.75	4.11
194	10.69	34.16	1.70
285	9.43	34.29	1.15
382	8.28	34.33	0.72
473	7.17	34.31	0.48
570	6.20	34.33	0.31
762	4.97	34.40	0.34
954	4.18	34.45	0.54
1158	3.60	34.49	0.77

HORIZON: STATION 105.70

0	15.8	33.44	5.67
10	15.66	33.46	5.59
25	15.5	33.42	5.60
50	15.3	33.37	5.66
75	15.1	33.39	5.69
99	13.18	33.21	5.55
150	9.68	33.50	4.07
196	9.12	33.86	3.49
289	7.72	34.02	2.36
386	7.10	34.21	0.81
480	6.44	34.29	0.43
577	5.84	34.34	0.27
770	4.76	34.40	0.38
963	4.08	34.45	0.58
1164	3.52	34.51	0.81

OBSERVED DEPTHS

HORIZON: STATION 105.80

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.6	33.60	5.62
10	16.27	33.60	5.54
25	-	33.61	5.55
50	-	33.52	5.59
74	-	33.48	5.62
98	13.87	33.30	5.63
151	9.59	33.55	4.09
197	8.88	33.86	3.43
288	7.96	34.13	1.60
386	7.06	34.18	0.82
478	6.36	34.28	0.35
576	5.84	34.36	0.27
768	4.74	34.36	0.32
960	4.09	34.43	0.53
1162	3.56	34.47	0.76

OBSERVED DEPTHS

CREST: STATION 110.33

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	15.25	33.39	5.77
10	14.80	33.42	5.82
20	14.71	33.48	5.84
30	14.46	33.42	5.80
50	14.18	33.42	5.66
75	12.64	33.39	5.07

CREST: STATION 110.35

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	15.9	33.42	5.79
10	15.12	33.39	5.86
25	14.9	33.46	5.86
49	14.2	33.40	5.75
73	12.2	33.35	5.27
96	10.93	33.43	4.54
146	9.75	33.84	3.34
191	9.58	34.14	2.25
281	8.89	34.36	0.97
375	7.68	34.36	0.56
465	6.88	34.36	0.34
560	6.15	34.33	0.24
653	5.44	33.45	0.23
751	5.06	34.40	0.32
945	4.15	34.49	0.50

CREST: STATION 110.40

0	16.3	33.48	5.88
10	15.65	33.48	6.06
25	15.6	33.51	5.74
50	15.4	33.48	5.78
75	15.0	33.46	5.59
100	12.24	33.30	5.29
154	9.77	33.60	4.11
201	9.08	34.02	2.88
294	8.56	34.31	1.34
391	7.40	34.29	0.80
484	6.44	34.29	0.44
581	5.78	34.33	0.36
772	4.90	34.45	0.53
963	4.10	34.50	0.54
1163	3.54	34.60	0.77

CREST: STATION 110.50

0	16.1	33.51	5.60
10	15.91	33.51	5.63
25	15.9	33.51	5.65
49	15.8	33.53	5.64
73	15.7	33.51	5.52
97	13.54	33.39	5.18
148	10.62	33.80	3.23
195	9.80	34.04	2.37
289	8.37	34.20	1.59
387	7.72	34.31	0.64
480	6.78	34.33	0.33
578	5.78	34.36	0.33
772	4.84	34.52	0.32
963	4.13	34.49	0.53
1165	3.64	34.51	0.73

CREST: STATION 110.60

0	16.3	33.60	5.63
10	16.12	33.57	5.51
25	16.1	33.60	5.65
51	16.1	33.64	5.65
74	16.1	33.62	5.78
97	16.07	33.71	5.56
148	11.71	33.71	3.69
193	10.37	33.98	2.51
286	8.10	34.14	2.15
384	7.28	34.25	0.97
478	6.60	34.34	0.43
577	5.51	34.49	0.39
773	4.82	34.43	0.40
967	4.00	34.51	0.58
1166	3.53	34.52	0.97

CREST: STATION 110.70

0	16.9	33.57	5.60
10	16.11	33.55	5.78
25	16.0	33.58	5.61
49	15.7	33.51	5.64
73	15.6	33.52	5.72
97	13.84	33.40	5.65
149	10.29	33.51	4.32
196	9.40	33.87	3.15
293	7.80	34.07	2.33
394	6.86	34.20	0.99
489	6.20	34.23	0.61
589	5.60	34.33	0.37
787	4.62	34.42	0.35
978	4.02	34.42	0.63
1176	3.50	34.51	0.86

OBSERVED DEPTHS

CREST: STATION 110.80

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.9	33.66	5.63
10	16.55	33.64	5.60
25	16.4	33.62	5.59
50	16.3	33.69	5.55
74	16.3	33.71	5.52
98	16.34	33.68	5.60
151	11.86	33.66	4.27
196	9.28	33.77	3.58
289	7.90	34.05	2.37
388	6.88	34.16	1.27
484	6.16	34.23	0.56
582	5.38	34.27	0.39
776	4.68	34.40	0.38
967	4.08	34.47	0.59
1169	3.55	34.54	0.77

CREST: STATION 110.90

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.8	33.62	5.56
10	16.52	33.58	5.61
25	16.3	33.60	5.61
50	16.1	33.57	5.65
73	16.2	33.64	5.61
97	16.74	33.86	5.38
149	12.04	33.86	2.94
194	10.90	34.11	1.92
287	8.85	34.23	1.50
386	7.30	34.20	1.07
480	6.59	34.25	0.56
579	5.86	34.31	0.38
775	4.86	34.38	0.32
966	4.15	34.47	0.57
1167	3.60	34.54	0.78

CREST: STATION 113.30

0	15.66	33.66	5.76
10	15.68	33.68	5.75
20	15.70	33.66	5.76
30	15.63	33.68	5.71

CREST: STATION 113.35

0	15.8	33.42	5.39
10	15.45	33.42	3.01a
25	15.3	33.40	5.73
50	14.5	33.48	5.85
75	12.0	33.31	4.94
100	11.49	33.70	3.48
155	10.21	33.95	2.69
203	9.42	34.07	2.30
298	8.75	34.33	0.92
397	7.75	34.40	0.48
491	6.76	34.37	0.33
590	6.04	34.38	0.27
784	4.92	34.42	0.33
977	4.22	34.47	0.52
1180	3.56	34.58	0.78

CREST: STATION 113.40

0	15.9	33.48	5.68
10	15.65	33.46	5.68
25	15.6	33.46	5.76
50	15.3	33.46	5.73
75	15.1	33.46	5.67
100	12.18	33.31	5.14
152	9.77	33.75	3.73
199	9.44	34.11	2.35
294	8.88	34.54	0.93
395	7.76	34.34	0.59
489	6.85	34.36	0.38
588	5.92	34.36	0.28
787	4.79	34.42	0.38
979	4.02	34.51	0.62
1180	3.52	34.58	0.77

CREST: STATION 113.50

0	16.2	33.55	5.41
10	15.99	33.49	3.97a
25	16.0	33.53	5.68
50	15.8	33.53	5.69
74	15.7	33.53	5.63
100	13.54	33.34	5.36
153	10.78	33.86	3.56
200	10.23	34.14	2.00
294	8.99	34.29	1.13
393	7.88	34.34	0.69
486	7.02	34.52	0.41
584	6.11	34.38	0.32
777	4.93	34.42	0.34
969	4.23	34.63	0.50
1173	3.62	34.52	0.73

CREST: STATION 113.60

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.5	33.64	5.67
10	16.20	33.60	5.69
24	16.1	33.62	5.69
49	15.7	33.51	5.64
73	15.3	33.47	5.61
98	13.12	33.40	5.62
150	9.91 c	33.55	5.38
197	10.30	34.18	4.23
289	9.16	34.34	2.04
385	7.96	34.36	0.99
477	7.00	34.36	.59
574	6.20	34.38	.38
766	5.11	34.42	.28
957	4.26	34.63	.50
1159	3.69	34.52	.69

CREST: STATION 117.26

0	15.87	33.73	5.79
10	15.85	33.71	5.68
20	15.80	33.75	5.76
30	15.77	33.82	5.67
50	14.78	33.66	5.04

CREST: STATION 117.35

0	15.77	33.51	5.77
10	15.96	33.73	5.74
25	15.63	33.84	5.18
50	14.37	33.80	4.23
74	13.08	33.51 a	3.59
98	11.95	33.87	2.90
120	11.38	33.98	2.53
148	10.94	34.16	1.72

CREST: STATION 113.70

0	16.3	33.55	5.66
10	16.07	33.53	5.59
25	15.8	33.55	5.63
50	15.7	33.58	5.59
74	15.7	33.64	5.59
98	16.00	33.64	5.58
152	11.32	33.42	4.73
198	9.61	33.80	3.48
294	8.02	34.10	2.00
395	7.19	34.29	0.75
490	6.72	34.36	.32
588	5.88	34.36	.29
787	4.91	34.43	.32
980	4.19	34.47	.52
1179	3.60	34.33	.77

CREST: STATION 117.30

0	15.31	33.44	5.86
10	15.44	33.53	4.56 a
20	15.62	33.71	5.83
30	15.47	33.64	5.80
50	13.81	33.62	3.89
59a/75a	12.94	33.78	2.50

CREST: STATION 117.40

0	15.5	33.46	-
10	15.39	33.42	-
25	15.1	33.46	5.74
51	14.7	33.40	5.84
75	13.9	33.46	5.63
101	13.51	33.75	3.94
155	10.90	34.11	2.13
202	10.56	34.36	1.12
297	9.32	34.40	.75
400	8.48	34.45	.44
496	6.85	34.32	.38
597	5.94	34.36	.38
693	5.44	34.39	.30
797	4.88	34.43	.37
894	4.55	34.38	.48

OBSERVED DEPTHS

CREST: STATION 117.50

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.0	33.51	5.68
10	15.40	33.49	5.68
25	14.9	33.51	5.74
50	14.9	33.49	5.68
74	12.9	33.39	5.02
98	11.82	33.46	4.53
150	10.32	33.89	2.77
197	9.44	34.07	2.32
292	8.66	34.27	1.29
389	7.38	34.29	.63
484	6.61	34.33	.38
582	5.89	34.31	.30
774	4.87	34.42	.35
964	4.18	34.47	.55
1164	3.66	34.49	.74

CREST: STATION 117.60

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.3	33.51	5.63
10	15.98	33.48	5.64
25	15.9	33.51	5.66
50	15.7	33.50	5.68
75	15.6	33.51	5.64
99	12.54	33.26	5.36
150	10.91	33.86	2.91
197	9.99	34.11	2.05
290	8.88	34.29	1;14
387	7.35	34.25	.83
481	6.84	34.33	.34
579	6.08	34.36	.33
771	4.96	34.40	.35
962	4.16	34.47	.52
1164	3.68	34.51	.70

CREST: STATION 117.70

0	17.9	33.82	5.58
10	16.78	33.80	5.55
25	16.8	33.86	5.53
50	16.8	33.86	5.52
75	16.6	33.86	5.49
99	12.98	33.46	4.56
151	10.21	33.80	3.12
199	9.30	34.02	2.00
293	8.99	34.40	.82
392	7.69	34.33	.49
486	6.72	34.29	.38
586	5.96	34.31	.31
780	5.10	34.38	.33
968	4.18	34.45	.53
1167	3.68	34.51	.71

CREST: STATION 120.25

0	15.87	33.71	5.64
10	15.90	33.64	5.72
20	15.86	33.77	5.65
30	15.90	33.82	5.24

CREST: STATION 120.30

0	15.59	33.62	5.74
10	15.62	33.58	5.75
20	15.60	33.55	5.76
29	15.58	33.62	5.77
48	14.60	33.57	5.45
72	12.73	33.44	4.73

CREST: STATION 120.35

0	15.30	33.49	5.69
10	15.31	33.44	5.72
20	15.30	33.51	5.71
30	15.31	33.46	5.74
49	15.81	33.71	5.47

CREST: STATION 120.45

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.5	33.78	5.70
9	16.34	33.82	5.73
24	16.3	33.86	5.74
52	15.9	33.86	4.69
76	12.4	33.82	3.36a
104	11.42	33.80	3.16
156	9.97	33.97	2.36
207	9.60	34.18	1.60
310	9.24	34.47	.56
417	8.00	34.43	.40
520	6.66	34.42	.31
622	5.89	34.40	.27
827	4.70	34.37	.42
1032	3.98	34.54	.60
1232	3.40	34.54	.92

CREST: STATION 120.50

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	16.3	33.66	5.56
9	16.16	33.62	5.62
23	16.2	33.71	5.60
49	16.2	33.66	5.56
69	16.2	33.63	5.52
94	12.33	33.41	4.91
139	10.99	33.82	3.05
182	10.41	34.27	1.53
271	9.72	34.44	.64
365	8.47	34.47	.40
453	7.42	34.35	.34
543	6.54	34.40	.23
721	5.18	34.40	.24
909	4.36	34.49	.48
1099	3.78	34.51	.57

CREST: STATION 120.60

0	17.3	33.91	5.50
9	17.18	33.87	5.51
23	17.2	33.87	5.43
51	17.1	34.02	4.18
73	13.4	33.69a	4.02
100	11.20	33.77	3.34
149	10.37	34.22	1.76
199	10.38	34.47	.89
299	8.91	34.40	.67
403	7.92	34.45	.33
503	6.90	34.43	.27
603	6.08	34.39	.22
803	4.92	34.47	.30
1007	4.12	34.54	.48
1206	3.52	34.56	.75

CREST: STATION 120.70

0	17.8	34.00	5.47
9	17.47	33.96	5.47
24	17.3	33.96	5.42
48	17.1	33.95	5.48
70	17.1	33.95	5.42
93	12.96	33.60	4.38
144	10.91	33.98	2.46
188	10.22	34.29	1.47
277	9.15	34.43	.81
371	8.19	34.38	.48
462	7.12	34.38	.37
557	6.36	34.40	.30
745	5.14	34.43	.31
933	4.30	34.47	.48
1127	3.69	34.54	.70

CREST: STATION 120.80

0	17.7	34.02	5.45
10	17.45	33.98	5.45
24	17.4	33.99	5.44
48	17.0	33.91	5.51
72	16.8	33.87	5.42
95	12.86	33.69	3.95
144	11.04	34.07	2.02
190	10.16	34.27	1.60
283	9.48	34.45	.52
381	8.12	34.40	.42
473	6.94	34.36	.35
569	6.25	34.38	.22
758	5.06	34.43	.28
947	4.32	34.53	.44
1147	3.76	34.52	.65

CREST: STATION 120.90

0	17.1	33.78	5.52
10	16.94	33.82	5.50
25	16.8	33.80	5.49
50	16.7	33.78	5.47
74	15.6	33.71	4.68
99	12.34	33.75	3.72
152	10.55	33.89	2.88
199	9.95	34.14	2.12
291	8.70	34.27	1.11
390	7.55	34.31	.57
483	6.33	34.29	.47
581	5.74	34.36	.36
772	4.82	34.46	.43
962	4.05	34.49	.61
1163	3.63	34.51	.78

OBSERVED DEPTHS

CREST: STATION 123.37

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	17.33	34.05	5.40
10	17.34	34.05	5.41
20	17.31	34.09	5.38
30	17.32	34.07	5.45
50	14.44	33.69	4.96

CREST: STATION 123.40

Depth (m)	T (°C)	S (‰)	O_2 (ml/L)
0	17.5	34.04	5.58
9	17.15	33.98	5.53
23	17.2	34.05	5.62
47	15.6	33.77	4.98
71	11.8	33.63	4.12
94	11.78	33.95	2.74
144	11.15	34.29	1.39
190	10.63	34.39	.64
236	10.22	34.52	.51
281	9.46	34.49	.46
331	8.80	34.45	.45
378	8.08	34.40	.42
424	7.52	34.40	.37
472	6.86	34.42	.30

CREST: STATION 123.50

0	17.1	33.86	5.49
8	17.11	33.84	5.47
22	17.1	33.89	5.47
47	17.1	33.87	5.46
67	17.1	33.87	5.46
88	14.77	33.68	5.18
127	11.60	33.73	3.59
164	10.90	34.09	2.16
242	10.16	34.48	.64
321	8.76	34.42	.68
398	7.94	34.42	.37
473	6.88	34.38	.42
635	5.90	34.43	.50
811	4.95	34.45	.33
1000	4.14	34.54	.23

CREST: STATION 123.60

0	17.6	34.00	5.47
9	17.34	33.93	5.45
22	17.2	33.98	5.49
46	17.1	33.96	5.46
67	16.8	33.96	5.43
89	15.80	33.86	5.30
131	11.09	33.64	4.21
172	10.48	33.98	2.96
255	9.33	34.40	1.23
344	8.42	34.40	.57
431	7.52	34.34	.41
521	6.74	34.36	.30
698	5.44	34.40	.31
882	4.65	34.49	.40
1075	3.92	34.47	.62

OBSERVED DEPTHS

BLACK DOUGLAS: STATION 127.60

Depth (m)	T (°C)	S (‰)
0	17.3	34.02
9	17.30	34.00
24	17.3	34.02
48	17.3	34.04
72	17.3	34.04
95	17.26	33.96
145	11.54	33.82
188	10.63	34.09
274	9.86	34.38
367	8.48	34.36
458	7.69	34.43
549	6.72	34.43
729	5.40	34.47
912	4.45	-
1110	3.90	34.54

BLACK DOUGLAS: STATION 130.30

Depth (m)	T (°C)	S (‰)
0	17.27	34.25
10	17.27	34.33
20	17.28	34.29
30	17.13	34.25
50	15.60	34.05
75	13.17	33.96

BLACK DOUGLAS: STATION 130.35

0	17.77	34.27
11	17.75	34.49
26	17.72	34.28
49	17.74	34.31
73	14.33	34.04
97	13.04	34.10
150	12.12	34.54
198	11.82	34.61

BLACK DOUGLAS: STATION 130.40

0	17.9	34.21
10	17.78	34.20
25	17.7	34.23
50	17.2	34.02
74	13.6	33.64
98	13.74	34.13
149	12.05	34.38
195	11.59	34.63
285	9.90	34.56
379	8.14	34.54
469	7.51	34.45
564	6.45	34.47
751	5.22	34.49
938	4.36	34.54
1136	3.74	34.60

BLACK DOUGLAS: STATION 130.50

0	17.2	34.14
9	17.18	34.13
25	17.2	34.14
49	17.1	34.13
72	12.8	33.60
95	11.75	33.68
144	10.34	34.02
187	10.01	34.31
273	8.82	34.31
364	7.98	34.40
451	7.27	34.42
543	6.51	34.42
724	5.14	34.42
908	4.43	34.52
1103	3.82	34.52

BLACK DOUGLAS: STATION 130.60

0	16.8	33.87
12	16.68	33.93
26	16.7	33.84
50	16.7	33.84
74	16.7	33.80
98	15.89	33.75
148	11.55	33.89
190	10.12	34.05
276	9.86	34.43
364	8.66	34.42
449	7.73	34.44
538	6.86	34.45
716	5.51	34.45
896	4.62	34.42
1089	3.98	34.48

OBSERVED DEPTHS

BLACK DOUGLAS: STATION 133.25

Depth (m)	T (°C)	S (‰)
0	18.72	34.45
10	18.75	34.51
20	18.60	34.49
30	18.39	34.49
50	16.14	34.14
75	14.11	34.16

BLACK DOUGLAS: STATION 133.30

Depth (m)	T (°C)	S (‰)
0	18.94	34.51
10	18.93	34.51
25	18.78	34.49
51	18.72	34.47
74	14.80	34.09
99	13.97	34.15
123	12.99	34.43
152	12.64	34.45

BLACK DOUGLAS: STATION 133.40

0	19.0	34.53
10	18.97	34.52
26	18.9	34.56
51	18.9	34.52
75	14.8	33.98
99	13.76	34.27
150	11.58	34.27
196	10.89	34.49
287	9.79	34.54
382	8.24	34.45
474	7.31	34.46
571	6.39	34.45
760	5.14	34.46
949	4.26	34.52
1149	3.65	34.53

BLACK DOUGLAS: STATION 133.50

0	18.2	34.33
10	18.25	34.52
25	-	34.36
50	-	34.38
75	-	34.27
99	13.84	33.93
151	11.60	34.34
198	10.79	34.49
290	9.48	34.51
388	8.07	34.45
481	7.14	34.45
579	6.31	34.45
772	5.08	34.45
963	4.29	34.52
1164	3.65	34.56

BLACK DOUGLAS: STATION 137.23

0	19.37	34.52
10	19.35	34.54
21	19.20	34.51
31	19.12	34.56
50	10.87	34.33

BLACK DOUGLAS: STATION 137.30

0	19.66	34.51
10	19.69	34.56
25	19.71	34.52
50	19.53	34.49
73	15.35	34.04
96	13.44	34.25
120	12.86	34.43
148	12.41	34.58

OBSERVED DEPTHS

BLACK DOUGLAS: STATION 137.40

Depth (m)	T (°C)	S (%)
0	19.48	34.51
10	19.47	34.56

BLACK DOUGLAS: STATION 137.50

Depth (m)	T (°C)	S (%)
0	20.0	34.36
9	18.96	34.58
24	18.9	34.35
52	18.9	34.34
74	17.8	33.98
100	12.40	33.69
147	11.57	34.11
192	10.55	34.31
283	9.66	34.52
378	8.64	34.42
470	7.43	34.43
561	6.64	34.43
743	5.37	34.43
936	4.40	34.51
1129	3.78	34.52

BLACK DOUGLAS: STATION 140.30

0	19.92	34.47
10	19.87	34.52
20	19.82	34.49
30	19.60	34.45
49	16.65	34.16
73	13.59	34.18
97	13.31	34.27

BLACK DOUGLAS: STATION 140.35

0	20.38	34.53
10	20.38	34.54
25	20.38	34.51
50	20.11	34.53
73	15.60	34.04
97	12.83	34.05
121	12.19	34.31
150	11.98	34.49

BLACK DOUGLAS: STATION 140.40

0	19.85	34.58
9	19.76	34.56
24	19.8	34.58
48	18.6	34.34
72	15.4	33.89
96	12.49	34.07
147	11.22	34.23
190	10.07	34.31
276	9.40	34.45
365	8.48	34.49
451	7.72	34.49
541	6.84	34.49
720	5.42	34.47
902	4.54	34.47
1098	3.87	34.54

BLACK DOUGLAS: STATION 140.50

0	19.5	34.34
9	19.55	34.54
24	19.6	34.40
48	19.4	34.45
72	17.6	34.13
96	14.19	33.66
147	11.07	33.93
192	11.16	34.52
282	10.04	34.56
376	8.46	34.49
468	7.52	34.49
563	6.56	34.49
750	5.39	34.49
938	4.48	34.56
1139	3.81	34.56

OBSERVED DEPTHS

BLACK DOUGLAS: STATION 143.26

Depth (m)	T (°C)	S (‰)
0	20.16	34.54
10	20.19	34.60
25	20.15	34.54
50	17.67	34.25
75	15.00	34.22

BLACK DOUGLAS: STATION 143.30

Depth (m)	T (°C)	S (‰)
0	19.92	34.42
11	19.93	34.45
21	19.93	34.40
30	19.92	34.38
49	19.90	34.41
72	17.91	34.29
95	13.76	34.13
118	13.02	34.43

BLACK DOUGLAS: STATION 143.35

0	20.86	34.56
10	20.88	34.52
25	20.65	34.52
50	17.04	34.00
73	13.62	33.86
97	13.61	34.18
148	12.14	34.56
196	11.34	34.60
244	10.83	34.60
292	10.28	34.63

BLACK DOUGLAS: STATION 147.20

0	21.08	34.58
10	21.08	34.61
20	21.04	34.58
30	20.96	34.56
50	18.46	34.34
75	16.3	34.48
100	15.34	34.51

BLACK DOUGLAS: STATION 147.25

0	21.18	34.54
10	20.85	34.23
20	20.66	34.54
30	20.52	34.52
50	17.45	34.32
75	16.03	34.42

BLACK DOUGLAS: STATION 147.30

0	21.92	34.60
10	22.90	34.60
21	21.88	34.58
30	21.86	34.57
50	21.74	34.61
75	- c	34.43

BLACK DOUGLAS: STATION 150.19

0	21.72	34.60
10	23.47	34.60
25	21.19	34.58
48	17.45	34.33
71	14.84	34.45
94	13.92	34.60
117	13.57	34.63
146	12.81	34.67

BLACK DOUGLAS: STATION 150.25

0	21.4	34.60
10	21.19	34.60
25	21.2	34.60
50	20.4	34.60
74	17.2	34.40
99	14.54	34.31
151	12.66	34.65
195	12.08	34.67
286	10.84	34.65
377	9.32	34.60
478	7.85	34.47
549	7.06	34.49
660	5.86	34.40
759	5.33	34.43
954	4.40	34.65

OBSERVED DEPTHS

BLACK DOUGLAS: STATION 150.30

Depth (m)	T (°C)	S (‰)
0	23.0	34.51
10	23.12	34.49
25	23.2	34.51
48	22.4	34.51
72	18.3	34.20
95	15.39	34.43
145	12.47	34.48
189	11.84	34.61
273	10.67	34.64
364	9.31	34.60
450	8.09	34.52
540	7.05	34.51
720	5.52	34.51
901	4.60	34.51
1098	3.93	34.54

BLACK DOUGLAS: STATION 150.40

Depth (m)	T (°C)	S (‰)
0	22.2	34.54
9	22.18	34.54
24	22.3	34.52
48	18.6	34.20
72	15.5	34.23
97	13.85	34.18
148	12.60	34.63
192	11.76	34.69
279	10.70	34.69
369	9.08	34.58
455	7.71	34.65
544	6.76	34.47
723	5.47	34.51
907	4.67	34.54
1102	3.96	34.56

EXPLANATORY NOTES

a Value rejected in drawing curves and reading off values at standard depths.

b Temperature reading off scale, above listed value.

c Thermometer failure.

d Observations disagreed, mean value taken.

e This bottle tripped before being lowered to its full depth (pre-tripped) and possibly before thermometers reached equilibrium.

f This bottle may have pre-tripped.

g This bottle pre-tripped and released its messenger so that all bottles below it pre-tripped also.

MLR-1

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