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UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

DATA REPORT

PHYSICAL AND CHEMICAL DATA
CCOFI CRUISE 5209
(MLR 41)
4-19 September 1952

SIO Reference 57-10
26 February 1957

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

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Sponsored by

Marine Research Committee

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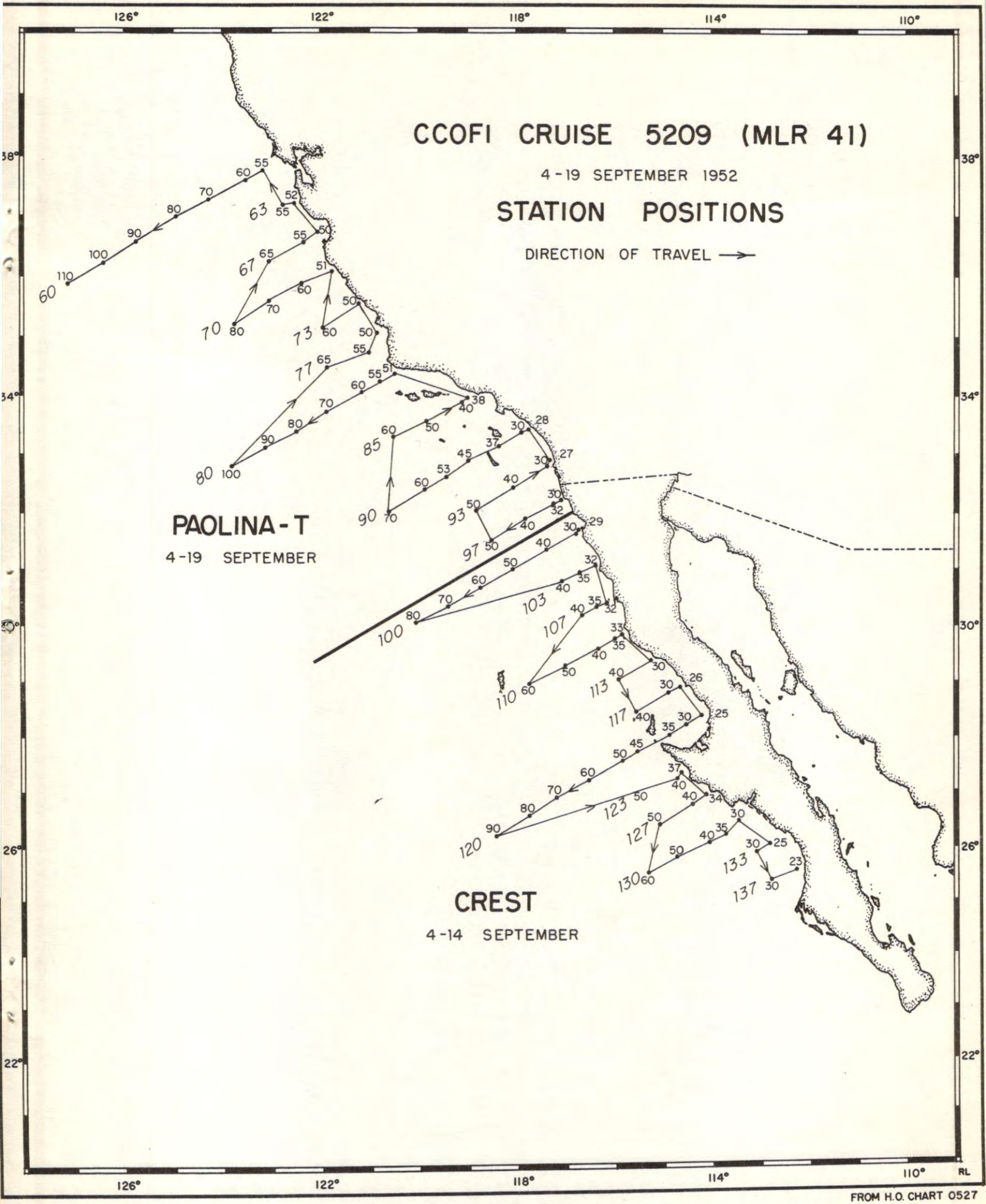
Approved for distribution:

Roger Revelle

Roger Revelle, Director

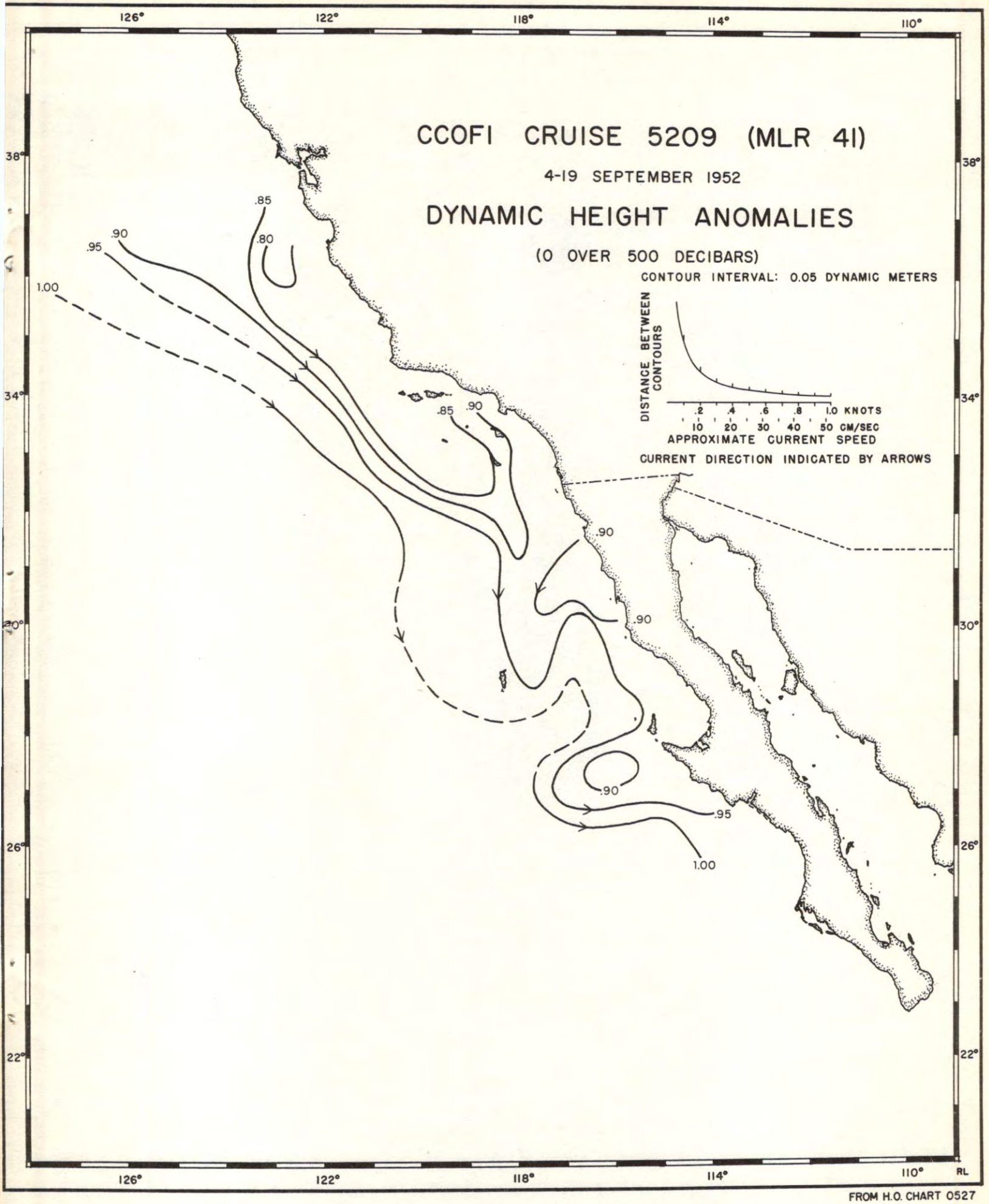
CONTENTS

FIGURES



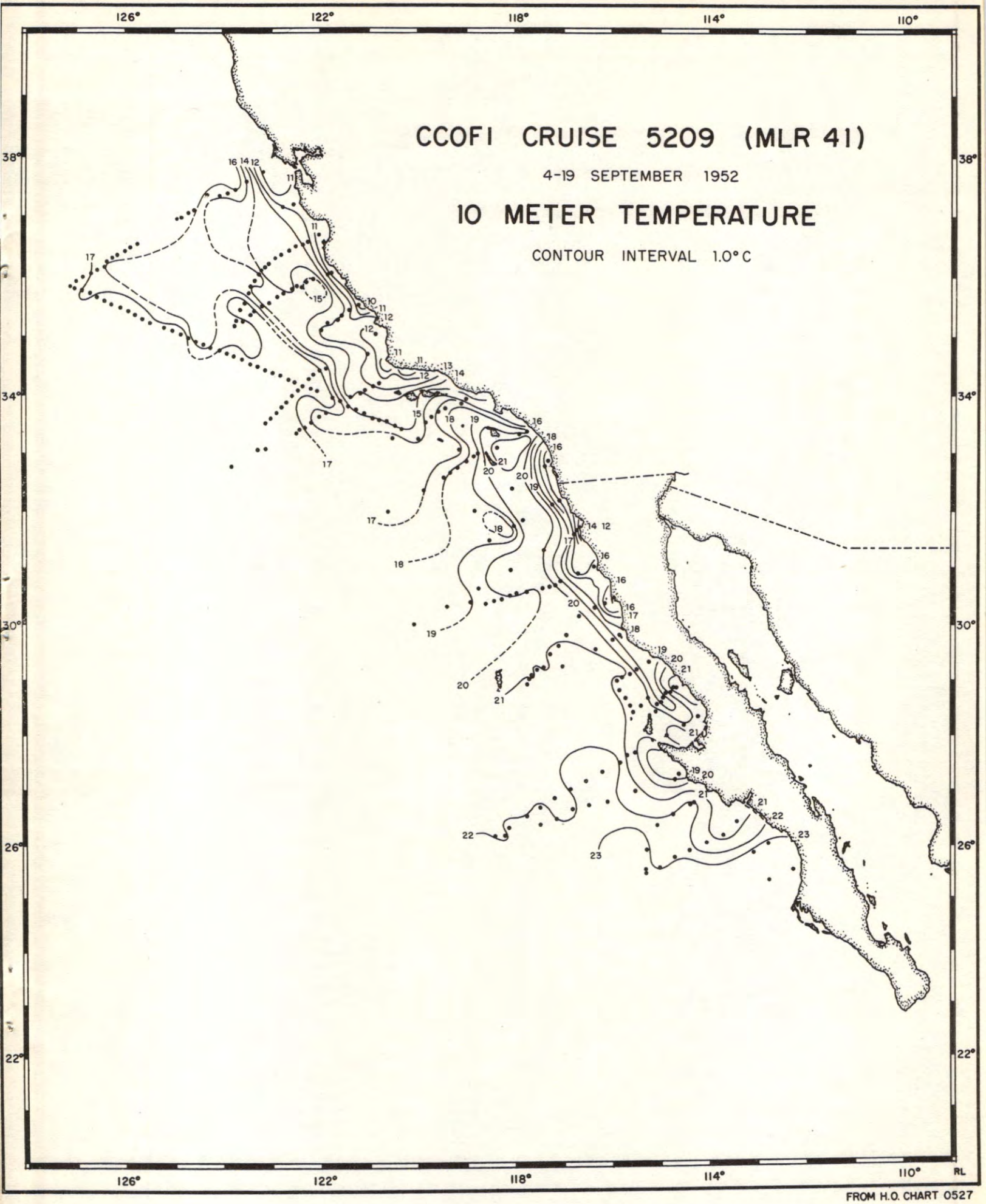
FROM H.O. CHART 0527

FIGURE 1



FROM H.O. CHART 0527

FIGURE 2



FROM H.O. CHART 0527

FIGURE 3

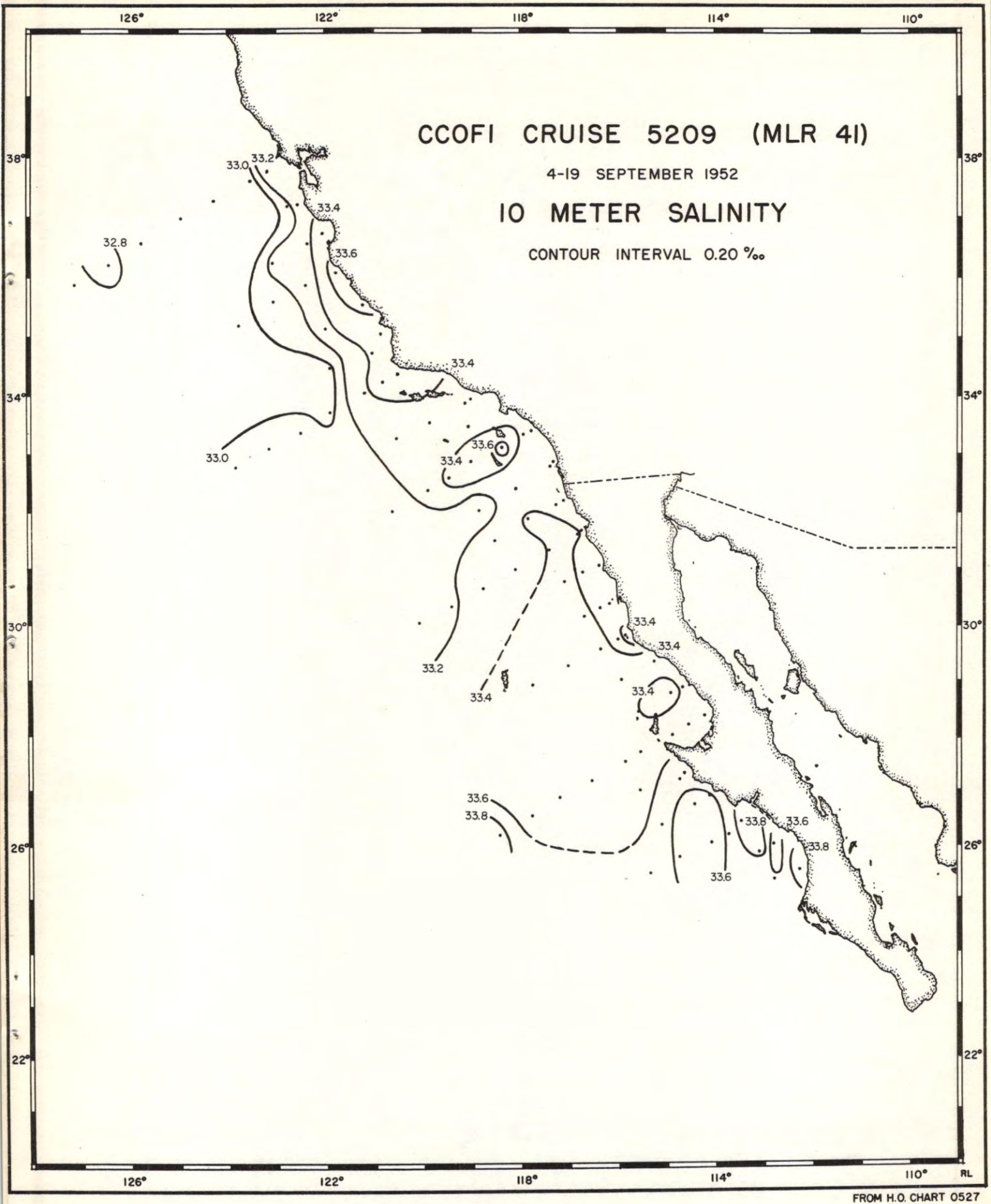
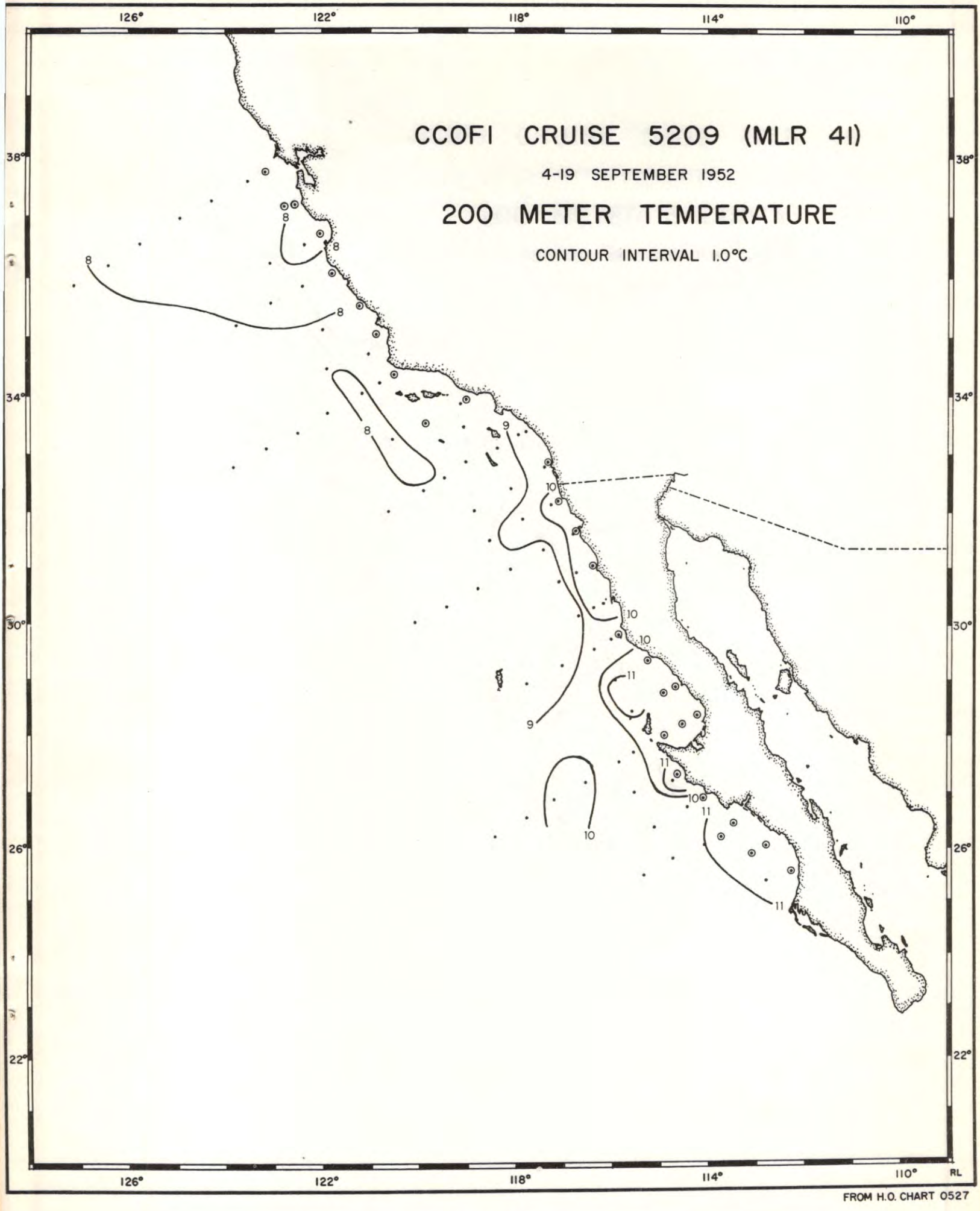

CCOFI CRUISE 5209 (MLR 41)
4-19 SEPTEMBER 1952
10 METER SALINITY
CONTOUR INTERVAL 0.20 ‰
126°
122°
118°
114°
110°
38°
34°
30°
26°
22°
32.8
33.0
33.2
33.4
33.6
33.8
RL
FROM H.O. CHART 0527

FIGURE 4



FROM H.O. CHART 0527

FIGURE 5

INTRODUCTION

The data in this report were collected on the forty-first full-scale cruise conducted in the Marine Life Research Program. The two ships participating were the MV CREST and the MV PAOLINA T, of the Scripps Institution of Oceanography.

Data are presented in the form of values tabulated at standard depths, and on charts of horizontal distributions. Values of observed depths will be included in a final publication, OCEANIC OBSERVATIONS OF THE PACIFIC. The presentation of data in these Physical and Chemical Reports does not constitute publication, and these interpretations may be subject to modification as the program continues.

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 separate the casts.

Nansen bottle pretripping occurred on Station 120.90. Some of the depths of observation, therefore, may be slightly in error.

PERSONNEL

Ships' Captains

Davis, L., MV CREST
Newbegin, R. C., MV PAOLINA-T

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV CREST

Smith, Alan C., Senior Marine Technician
Casey, Harold D., Fishery Aid
Greenbaum, Richard H., Marine Technician
Lamplugh, Roscoe W., Marine Technician
Schmidt, Don D., Marine Technician
Focke, Alfred B., Laboratory Assistant Trainee
Mills, Richard A., Laboratory Assistant Trainee

MV PAOLINA-T

Gossett, David A., Senior Marine Technician
Larrimore, Wayne, Marine Technician
Miller, Gaylord, Laboratory Assistant Trainee
Moyer, John S., Marine Technician

STATION 60.55 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°49'N 123°14'W; September 17, 1952; 0907 GCT; wire angle: 10°; sounding: 53 fms; depth of observation: 75 m; weather: fog; sea: slight; wind: 360°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (10^5 mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	12.22	33.28	25.23	.000	7.84
10	10.40	33.35	25.62	.026	5.94
20	9.88	33.44	25.78	.049	4.80
30	9.60	33.53	25.89	.070	4.62
50	9.17	33.48	25.92	.113	4.17
75	8.90	33.73	26.16	.162	2.35

STATION 60.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°38'N 123°36'W; September 17, 1952; 1552 GCT; wire angle: 21°; sounding: 1820 fms; depth of observation: 1139 m; weather: overcast; sea: slight; wind: 170°, force 1.

0	16.13	32.84	24.08	.000	6.11
10	15.58	32.92	24.26	.038	6.44
20	14.24	32.95	24.58	.073	6.42
30	12.70	33.03	24.95	.105	6.30
50	10.12	33.17	25.53	.160	5.49
75	9.53	33.32	25.74	.219	4.80
100	8.96	33.50	25.97	.273	4.07
150	8.20	33.75	26.28	.369	3.29
200	7.93	33.96	26.49	.453	2.24
250	7.47	33.97	26.56	.531	2.01
300	7.04	33.99	26.64	.605	1.86
400	6.35	34.07	26.80	.744	1.48
500	5.79	34.17	26.95	.869	0.60
600	5.25	34.25	27.07	.981	0.44
700	4.75	34.31	27.18	1.083	0.37
800	4.35	34.35	27.25	1.178	0.36
1000	3.77	34.41	27.36	1.349	0.49

STATION 60.70 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°20'N 124°20'W; September 17, 1952; 2212 GCT; wire angle: 16°; sounding: 2050 fms; depth of observation: 576 m; weather: cloudy; sea: slight; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 S$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.16	32.86	24.09		.000	5.70
10	15.90	32.89	24.17		.038	5.81
20	15.26	32.92	24.33		.075	6.13
30	13.40	32.87	24.69		.109	6.47
50	10.40	32.77	25.17		.170	5.69
75	9.23	33.16	25.66		.235	4.95
100	8.59	33.38	25.94		.290	4.17
150	8.19	33.78	26.31		.386	3.07
200	7.75	33.95	26.51		.469	2.70
250	7.16	34.01	26.64		.545	2.30
300	6.73	34.03	26.71		.615	1.73
400	6.04	34.09	26.85		.747	1.02
500	5.55	34.16	26.97		.868	0.57

STATION 60.80 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°02'N 125°01'W; September 18, 1952; 0433 GCT; wire angle: 2°; sounding: 2360 fms; depth of observation: 1203 m; weather: no observation: sea: slight; wind: 300°, force 1.

0	16.70	32.97	24.05	.000	5.74
10	16.72	32.97	24.04	.039	5.80
20	16.69	32.98	24.06	.078	5.73
30	16.61	32.99	24.09	.116	5.78
50	11.13	32.94	25.17	.183	6.21
75	9.18	33.03	25.57	.248	5.31
100	8.43	33.31	25.91	.305	4.55
150	8.06	33.82	26.36	.401	3.03
200	7.64	34.00	26.56	.481	2.23
250	7.13	34.01	26.64	.555	1.83
300	6.53	34.02	26.73	.625	1.51
400	5.55	34.02	26.86	.756	0.95
500	5.13	34.13	26.99	.875	0.57
600	4.77	34.27	27.14	.981	0.37
700	4.50	34.35	27.24	1.076	0.34
800	4.23	34.40	27.31	1.166	0.37
1000	3.69	34.45	27.40	1.328	0.53

STATION 60.90 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°38'N 125°47'W; September 18, 1952; 1125 GCT; wire angle: 5°; sounding: 2500 fms; depth of observation: 604 m; weather: overcast; sea: smooth; wind: 310°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (10^5 mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	16.74	33.06	24.11	.000	5.59
10	16.77	32.97	24.03	.039	5.89
20	16.78	32.99	24.05	.077	5.88
30	15.60	33.00	24.32	.115	5.85
50	11.34	33.03	25.20	.179	5.96
75	8.80	33.23	25.79	.242	4.88
100	8.27	33.43	26.02	.295	3.64
150	7.84	33.84	26.41	.386	3.09
200	7.46	33.96	26.56	.466	2.30
250	7.00	34.07	26.71	.538	1.65
300	6.41	34.02	26.75	.606	1.43
400	5.66	34.09	26.90	.734	0.89
500	5.05	34.14	27.01	.851	0.54
600	4.69	34.25	27.14	.956	0.35

STATION 60.100 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°16'N 126°30'W; September 18, 1952; 1752 GCT; wire angle: 14°; sounding: 2570 fms; depth of observation: 982 m; weather: overcast; sea: smooth; wind: 320°, force 3.

0	16.70	32.74	23.87	.000	5.66
10	16.72	32.77	23.89	.040	5.62
20	16.70	32.75	23.88	.081	5.65
30	16.65	32.74	23.88	.121	5.77
50	13.30	32.75	24.61	.195	6.29
75	11.58	32.77	24.96	.275	6.38
100	10.10	32.81	25.24	.347	6.08
150	8.50	33.32	25.90	.469	4.46
200	7.80	33.77	26.36	.565	3.50
250	7.10	33.96	26.61	.645	2.88
300	6.41	33.97	26.71	.716	2.28
400	5.57	34.10	26.92	.845	1.23
500	5.09	34.11	26.98	.962	0.65
600	4.70	34.23	27.12	1.070	0.39
700	4.38	34.29	27.20	1.168	0.33
800	4.10	34.31	27.25	1.261	0.36
1000	(3.60)	(34.31)	(27.30)	(1.438)	(0.51)

STATION 60.110 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°56'N 126°11'W; September 19, 1952; 0032 GCT; wire angle: 5°; sounding: 2750 fms; depth of observation: 601 m; weather: cloudy; sea: slight; wind: 310°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (10^5 mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	17.32	32.90	23.85	.000	5.50
10	17.33	32.83	23.79	.041	5.51
20	17.33	32.83	23.79	.082	5.57
30	17.31	32.84	23.81	.123	5.53
50	15.58	32.83	24.20	.202	5.89
75	12.00	32.81	24.91	.287	6.27
100	10.21	32.85	25.26	.360	5.69
150	8.79	33.53	26.02	.479	3.94
200	8.34	33.87	26.36	.572	2.68
250	7.70	33.98	26.54	.654	2.61
300	7.04	33.93	26.59	.730	2.33
400	6.08	33.99	26.77	.872	1.21
500	5.45	34.09	26.92	.998	0.67
600	5.16	34.23	27.07	1.112	0.36

STATION 63.52 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°18'N 122°35'W; September 15, 1952; 1416 GCT; wire angle: 2°; sounding: 45 fms; depth of observation: 50 m; weather: overcast; sea: smooth; wind: calm.

0	12.79	33.37	25.19	.000	7.60
10	11.33	33.33	25.44	.027	6.49
20	9.98	33.37	25.70	.051	4.93
30	9.42	33.53	25.92	.073	4.06
50	8.97	33.69	26.12	.113	2.56

STATION 63.55 (Interpolated Values at Standard Depths)

PAOLINA T.: 37°17'N 122°49'W; September 15, 1952; 1609 GCT; wire angle: 5°; sounding: 90 fms; depth of observation: 155 m; weather: fog; sea: calm; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.14	33.08	25.09		.000	6.23
10	11.03	33.08	25.30		.028	5.93
20	9.79	33.05	25.49		.054	5.30
30	9.63	33.07	25.53		.079	4.72
50	9.44	33.49	25.89		.125	3.73
75	8.94	33.68	26.12		.175	2.92
100	8.54	33.77	26.25		.222	2.84
150	8.64	33.96	26.38		.309	1.97

STATION 67.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°49'N 122°04'W; September 15, 1952; 0745 GCT; wire angle: 0°; sounding: 55 fms; depth of observation: 76 m; weather: fog; sea: calm; wind: calm.

0	11.92	33.42	25.40	.000	6.32
10	10.66	33.49	25.68	.025	4.94
20	10.32	33.48	25.73	.048	4.41
30	9.89	33.55	25.86	.070	3.80
50	9.49	33.78	26.11	.110	2.99
75	9.24	33.86	26.21	.157	2.36

STATION 67.55 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°39'N 122°26'W; September 15, 1952; 0424 GCT; wire angle: 2°; sounding: 1100 fms; depth of observation: 607 m; weather: fog; sea: calm; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t ($10^5\delta$ mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	13.60	33.31	24.98	.000	6.94
10	12.72	33.39	25.22	.029	6.20
20	11.94	33.39	25.37	.056	5.89
30	10.92	33.43	25.59	.081	5.15
50	9.66	33.64	25.97	.125	3.76
75	9.43	33.78	26.12	.175	2.53
100	9.18	33.86	26.22	.222	2.54
150	8.83	33.95	26.34	.311	2.28
200	8.26	33.98	26.46	.394	1.88
250	7.68	33.98	26.54	.473	2.04
300	7.67	34.11	26.64	.548	1.55
400	6.93	34.16	26.79	.687	0.94
500	5.99	34.16	26.91	.814	0.74
600	5.22	34.19	27.03	.930	0.45

STATION 67.65 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°19'N 123°09'W; September 14, 1952; 2230 GCT; wire angle: 8°; sounding: 1750 fms; depth of observation: 600 m; weather: clear; sea: smooth; wind: 320°, force 2.

0	15.14	33.24	24.61	.000	5.91
10	13.72	33.24	24.91	.032	6.12
20	13.18	33.53	25.24	.061	6.08
30	11.82	33.51	25.49	.087	5.57
50	10.86	33.55	25.69	.136	4.52
75	9.40	33.68	26.04	.189	3.27
100	8.98	33.73	26.15	.238	2.79
150	8.22	33.93	26.42	.326	2.11
200	7.82	34.04	26.57	.405	1.73
250	7.40	34.07	26.65	.479	1.48
300	6.97	34.13	26.76	.548	1.20
400	6.16	34.16	26.89	.676	0.75
500	5.74	34.23	27.00	.794	0.46
600	5.22	34.29	27.11	.902	0.33

STATION 70.51 (Interpolated Values at Standard Depths)

PAOLINA T.: 36°10'N 121°46'W; September 13, 1952; 1742 GCT; wire angle: 0°; sounding: 180 fms; depth of observation: 155 m; weather: clear; sea: smooth; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	11.05	33.62	25.71		.000	6.26
10	10.60	33.69	25.85		.022	4.57
20	10.00	33.71	25.97		.043	3.50
30	9.86	33.72	26.00		.064	3.11
50	9.76	33.77	26.05		.104	2.84
75	9.55	33.84	26.14		.152	2.48
100	9.28	33.87	26.21		.199	2.30
150	8.89	34.04	26.40		.286	1.90

STATION 70.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°55'N 122°25'W; September 13, 1952; 2320 GCT; wire angle: 11°; sounding: 1750 fms; depth of observation: 1196 m; weather: overcast; sea: slight; wind: 300°, force 2.

0	14.68	33.17	24.65	.000	6.00
10	14.50	33.24	24.74	.033	6.01
20	14.20	33.25	24.81	.064	6.06
30	13.75	33.29	24.94	.095	6.06
50	11.20	33.43	25.54	.150	5.01
75	9.25	33.56	25.97	.207	3.83
100	9.16	33.84	26.21	.255	3.61
150	8.50	33.98	26.42	.343	2.39
200	7.65	34.00	26.56	.422	2.62
250	7.35	34.08	26.67	.495	2.02
300	7.00	34.18	26.79	.563	1.40
400	6.10	34.13	26.87	.691	0.94
500	5.65	34.21	26.99	.809	0.68
600	5.15	34.29	27.12	.917	0.36
700	4.75	34.35	27.21	1.016	0.35
800	4.41	34.40	27.29	1.107	0.39
1000	3.85	34.42	27.36	1.275	0.54

STATION 70.70 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°38'N 123°06'W; September 14, 1952; 0551 GCT; wire angle: 5°; sounding: 2140 fms; depth of observation: 605 m; weather: partly cloudy; sea: slight; wind: 300°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t ($10^5\delta$ mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	14.81	33.10	24.57	.000	6.49
10	14.80	33.10	24.57	.034	6.19
20	14.76	33.13	24.60	.067	6.29
30	14.60	32.93	24.48	.101	6.84
50	10.32	32.95	25.32	.163	5.69
75	9.20	33.18	25.68	.225	4.78
100	8.75	33.91	26.33	.276	3.88
150	8.26	33.84	26.35	.362	2.87
200	7.73	33.97	26.53	.444	2.26
250	7.08	33.98	26.63	.519	2.21
300	6.53	34.07	26.77	.588	1.73
400	5.86	34.13	26.90	.715	0.86
500	5.26	34.13	26.98	.833	0.47
600	4.90	34.22	27.09	.942	0.36

STATION 70.80 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°15'N 123°48'W; September 14, 1952; 1206 GCT; wire angle: 5°; sounding: 400 fms; depth of observation: 608 m; weather: fog; sea: smooth; wind: 300°, force 1.

0	16.85	32.88	23.95	.000	5.63
10	16.87	32.90	23.96	.040	5.67
20	16.84	32.94	23.99	.079	5.59
30	16.80	32.93	24.00	.118	5.95
50	12.10	32.74	24.84	.189	6.47
75	10.55	32.79	25.16	.264	5.83
100	9.12	33.09	25.63	.329	5.00
150	8.60	33.70	26.18	.435	3.30
200	8.03	33.87	26.40	.524	2.46
250	7.53	34.02	26.59	.603	1.95
300	7.00	34.05	26.69	.675	1.46
400	6.30	34.13	26.85	.808	0.83
500	5.76	34.16	26.94	.931	0.51
600	5.28	34.26	27.08	1.043	0.37

STATION 73.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°37'N 121°16'W; September 13, 1952; 0100 GCT; wire angle: 9°; sounding: 45 fms; depth of observation: 74 m; weather: clear; sea: slight; wind: 300°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t ($10^5 s$) (mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	11.43	33.57	25.61	.000	5.07
10	11.11	33.65	25.73	.023	4.76
20	10.76	33.64	25.78	.046	4.38
30	10.28	33.64	25.86	.068	3.74
50	9.91	33.64	25.93	.110	3.09
75	(9.43)	(33.82)	(26.15)	(.160)	(2.62)

STATION 73.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°11'N 122°00'W; September 13, 1952; 0730 GCT; wire angle: 22°; sounding: 1650 fms; depth of observation: 656 m; weather: no observation: sea: moderate; wind: 290°, force 3.

0	13.12	33.28	25.06	.000	5.89
10	12.76	33.39	25.21	.028	5.87
20	12.41	33.39	25.28	.056	5.94
30	11.79	33.45	25.45	.082	5.62
50	10.26	33.47	25.73	.130	4.01
75	9.39	33.65	26.02	.184	3.10
100	9.04	33.73	26.14	.233	2.69
150	8.55	33.91	26.36	.323	2.23
200	8.17	34.07	26.54	.404	1.74
250	7.54	33.98	26.56	.481	1.69
300	7.32	34.09	26.68	.554	1.50
400	6.81	34.11	26.77	.692	0.87
500	6.06	34.15	26.90	.821	0.53
600	5.46	-	-	-	0.38

STATION 77.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 35°04'N 120°52'W; September 12, 1952; 1830 GCT; wire angle: 15°; sounding: 68 fms; depth of observation: 96 m; weather: clear; sea: slight; wind: 290°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	11.32	33.58	25.63		.000	4.84
10	11.10	33.51	25.62		.024	4.44
20	10.84	33.54	25.69		.047	3.98
30	10.55	33.62	25.80		.070	3.78
50	9.85	33.76	26.03		.112	2.66
75	9.39	33.89	26.21		.160	2.30

STATION 77.55 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°46'N 121°05'W; September 12, 1952; 1342 GCT; wire angle: 17°; sounding: 300 fms; depth of observation: 404 m; weather: partly cloudy; sea: rough; wind: 300°, force 6.

0	13.43	33.44	25.12		.000	5.82
10	13.43	33.44	25.12		.029	5.84
20	13.33	33.41	25.12		.057	5.65
30	12.39	33.35	25.26		.085	5.45
50	10.70	33.26	25.50		.137	4.99
75	9.33	33.63	26.01		.194	3.50
100	8.95	33.69	26.12		.243	3.17
150	8.73	33.97	26.38		.333	2.36
200	8.38	34.09	26.52		.414	1.59
250	8.34	34.14	26.57		.491	1.23
300	8.04	34.16	26.63		.566	1.09
400	7.20	34.21	26.79		.706	0.85

STATION 77.65 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°30'N 121°52'W; September 12, 1952; 0620 GCT; wire angle: 38°; sounding: 2060 fms; depth of observation: 412 m; weather: partly cloudy; sea: rough; wind: 300°, force 7.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.92	32.97	24.23		.000	5.79
10	15.94	32.99	24.24		.037	5.83
20	15.70	32.94	24.25		.074	5.98
30	15.15	33.13	24.52		.109	6.05
50	11.57	32.83	25.01		.174	6.32
75	10.23	32.77	25.20		.246	5.60
100	9.65	33.35	25.74		.309	4.84
150	8.93	33.73	26.16		.413	3.22
200	8.02	33.85	26.39		.503	2.79
250	7.38	34.07	26.65		.581	2.38
300	7.02	34.09	26.72		.651	1.57
400	6.17	34.13	26.87		.782	-

STATION 80.51 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°26'N 120°33'W; September 10, 1952; 0005 GCT; wire angle: 8°; sounding: 70 fms; depth of observation: 50 m; weather: partly cloudy; sea: moderate; wind: 300°, force 5.

0	11.24	33.57	25.64	235.8	.000	4.83
10	10.59	33.60	25.78	222.8	.023	4.30
20	10.40	33.60	25.81	219.9	.045	4.08
30	10.43	33.62	25.82	219.1	.067	4.04
50	10.16	33.62	25.87	215.1	.110	3.59

STATION 80.55 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°18'N 120°50'W; September 10, 1952; 0403 GCT; wire angle: 20°; sounding: 440 fms; depth of observation: 621 m; weather: partly cloudy; sea: slight; wind: 310°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.24	33.48	25.38	260.1	.000	5.63
10	12.25	33.49	25.39	259.8	.026	5.48
20	12.19	33.49	25.40	258.9	.052	5.39
30	11.94	33.50	25.46	253.9	.078	5.24
50	10.20	33.64	25.88	214.3	.124	3.43
75	9.47	33.76	26.09	194.2	.175	2.88
100	9.32	33.82	26.16	187.9	.223	2.72
150	9.14	33.95	26.29	176.5	.314	2.02
200	8.82	34.08	26.45	162.9	.399	1.71
250	8.51	34.19	26.58	150.9	.478	1.53
300	8.20	34.23	26.66	144.2	.551	1.12
400	7.26	34.23	26.80	132.2	.690	0.74
500	6.49	34.23	26.90	123.0	.817	0.63
600	5.78	34.26	27.02	112.7	.935	0.39

STATION 80.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°07'N 121°12'W; September 10, 1952; 0727, 0810 GCT; wire angle: 20°, 25°; sounding: 1410 fms; depth of observation: 1308 m; weather: clear; sea: slight; wind: 310°, force 4.

0	13.30	33.39	25.11	286.5	.000	6.20
10	13.33	33.39	25.10	287.3	.029	6.63
20	13.30	33.39	25.11	287.0	.057	6.53
30	13.25	33.40	25.13	285.5	.086	6.00
50	10.93	33.28	25.47	253.0	.140	5.04
75	9.77	33.47	25.82	220.4	.199	3.90
100	9.04	33.69	26.11	193.2	.251	3.21
150	8.59	33.86	26.31	174.8	.343	2.76
200	7.97	33.98	26.50	157.6	.426	2.33
250	7.38	34.01	26.61	147.9	.502	1.89
300	6.97	34.05	26.70	140.0	.574	1.62
400	6.44	34.23	26.91	121.0	.705	0.74
500	6.03	34.29	27.01	112.5	.821	0.50
600	5.63	34.35	27.11	104.1	.929	0.39
700	5.18	34.39	27.19	96.6	1.029	0.35
800	4.70	34.41	27.26	90.2	1.124	0.39
1000	3.93	34.47	27.39	78.2	1.292	0.60

STATION 80.70 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°45'N 121°56'W; September 10, 1952; 1452 GCT; wire angle: 14°; sounding: 2150 fms; depth of observation: 594 m; weather: partly 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)
0	16.24	32.95	24.14	378.7	.000	6.12
10	16.26	32.95	24.13	379.4	.038	5.60
20	16.25	32.97	24.15	378.0	.076	5.79
30	16.20	32.99	24.18	375.8	.113	5.75
50	15.25	32.97	24.38	357.6	.187	6.43
75	12.00	32.83	24.93	305.7	.270	6.49
100	10.09	32.85	25.28	271.9	.342	5.48
150	8.88	33.58	26.05	199.9	.460	3.85
200	8.13	33.89	26.40	166.6	.551	3.29
250	7.60	34.01	26.58	151.0	.631	2.43
300	6.87	34.06	26.72	137.9	.703	1.91
400	6.11	34.14	26.88	123.3	.833	1.04
500	5.60	34.24	27.02	110.6	.950	0.51
600	(5.10)	(34.31)	(27.14)	(100.4)	(1.056)	(0.36)

STATION 80.80 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°24'N 122°38'W; September 10, 1952; 2119 GCT; wire angle: 18°; sounding: 2000+ fms; depth of observation: 1153 m; weather: partly cloudy; sea: rough; wind: 300°, force 5.

0	17.75	33.13	23.92	.000	5.42
10	17.74	33.13	23.93	.040	5.45
20	17.71	33.13	23.93	.080	5.44
30	17.68	33.11	23.92	.120	5.45
50	17.00	33.08	24.06	.199	5.65
75	12.82	32.91	24.83	.286	6.23
100	11.18	32.88	25.12	.362	5.83
150	9.00	33.50	25.97	.485	4.35
200	8.24	33.86	26.36	.580	3.14
250	7.83	34.00	26.54	.661	2.30
300	7.38	34.07	26.65	.736	1.73
400	6.50	34.11	26.81	.873	1.03
500	5.76	34.09	26.89	1.001	0.73
600	5.17	34.19	27.04	1.118	0.50
700	4.77	34.27	27.14	1.223	0.35
800	4.43	34.34	27.24	1.320	0.38
1000	3.89	34.43	27.37	1.492	0.52

STATION 80.90 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°09'N 123°13'W; September 11, 1952; 0303, 0332 GCT; wire angle: 25°, 30°; sounding: 2400 fms; depth of observation: 609 m; weather: cloudy; sea: rough; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 S$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.74	33.01	23.83		.000	5.56
10	17.76	33.03	23.84		.041	5.51
20	17.75	32.95	23.79		.082	5.48
30	17.71	32.95	23.80		.123	5.49
50	16.50	32.84	24.00		.204	5.67
75	12.75	32.87	24.81		.292	6.21
100	11.71	32.90	25.03		.369	6.07
150	9.43	33.39	25.81		.498	3.84
200	8.43	33.73	26.23		.600	3.59
250	7.62	33.91	26.50		.685	3.03
300	7.29	33.99	26.60		.762	2.21
400	6.63	34.07	26.76		.904	1.05
500	5.93	34.16	26.92		1.032	0.64
600	5.11	-	-		-	0.47

STATION 80.100 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°49'N 123°52'W; September 11, 1952; 0953 GCT; wire angle: 10°; sounding: 2400 fms; depth of observation: 1355 m; weather: partly cloudy; sea: slight; wind: 310°, force 3.

0	17.90	33.19	23.93	.000	5.35
10	17.92	33.17	23.91	.040	5.48
20	17.93	33.16	23.90	.080	5.49
30	17.94	33.15	23.89	.120	5.51
50	16.81	33.13	24.15	.199	5.95
75	13.78	33.06	24.76	.286	6.05
100	11.94	33.01	25.08	.363	5.91
150	9.83	33.23	25.62	.496	4.71
200	8.91	33.64	26.09	.605	3.50
250	8.15	33.90	26.41	.696	2.53
300	7.31	33.95	26.57	.776	2.31
400	6.20	34.03	26.78	.918	1.70
500	5.48	34.10	26.93	1.044	0.78
600	4.94	34.15	27.03	1.159	0.44
700	4.60	34.24	27.14	1.265	0.31
800	4.33	34.32	27.23	1.362	0.37
1000	3.83	34.35	27.31	1.540	0.62
1200	3.36	34.37	27.37	1.706	0.80

STATION 85.38 (Interpolated Values at Standard Depths)

PAOLINA T.: 34°00'N 119°02'W; September 8, 1952; 2013 GCT; wire angle: 10°; sounding: 45 fms; depth of observation: 50 m; weather: clear; sea: slight; wind: 315°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.36	33.31	24.83	313.1	.000	6.20
10	13.83	33.28	24.91	305.1	.031	6.20
20	12.98	33.28	25.09	289.0	.061	5.58
30	12.10	33.28	25.26	273.0	.089	5.39
50	10.44	33.31	25.58	242.6	.140	4.26

STATION 85.40 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°56'N 119°10'W; September 8, 1952; 1825 GCT; wire angle: 29°; sounding: 450 fms; depth of observation: 566 m; weather: clear; sea: moderate; wind: 320°, force 4.

0	18.06	33.40	24.05	386.6	.000	5.90
10	18.03	33.25	23.95	397.3	.039	5.86
20	16.60	33.35	24.36	358.0	.077	6.31
30	14.24	33.35	24.88	308.6	.110	6.34
50	11.80	33.31	25.34	265.9	.168	5.68
75	10.25	33.40	25.68	233.3	.230	4.00
100	9.60	33.64	25.98	205.6	.285	3.09
150	9.26	33.97	26.29	176.9	.381	2.31
200	8.90	34.10	26.45	162.6	.465	1.96
250	8.72	34.13	26.50	158.6	.546	1.60
300	8.40	34.19	26.60	150.2	.623	1.25
400	7.57	34.22	26.75	137.4	.767	0.72
500	6.72	34.22	26.86	126.9	.899	0.50

STATION 85.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°37'N 119°52'W; September 8, 1952; 1200 GCT; wire angle: 19°; sounding: 150 fms; depth of observation: 148 m; weather: clear; sea: very rough; wind: 310°, force 5.

0	15.86	33.35	24.53	341.5	.000	5.95
10	15.88	33.33	24.51	343.5	.034	6.02
20	15.40	33.36	24.64	331.4	.068	6.12
30	12.70	33.45	25.27	271.5	.098	6.02
50	9.71	33.57	25.91	211.6	.146	3.58
75	9.46	33.74	26.08	195.5	.197	3.55
100	9.07	33.81	26.20	184.8	.245	2.53
150	(8.92)	(33.93)	(26.31)	(174.6)	(.335)	(2.29)

STATION 85.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°19'N 120°34'W; September 8, 1952; 0405 GCT; wire angle: 28°; sounding: 450 fms; depth of observation: 593 m; weather: clear; sea: moderate; wind: 320°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.63	33.31	24.33	361.2	.000	5.75
10	16.64	33.31	24.32	361.4	.036	5.72
20	15.75	33.30	24.52	343.2	.071	5.76
30	15.19	33.46	24.76	319.9	.105	5.56
50	13.50	33.46	25.12	286.5	.165	5.43
75	10.00	33.49	25.79	222.6	.229	3.65
100	9.11	33.70	26.10	193.6	.281	2.87
150	8.37	33.91	26.38	167.8	.371	2.28
200	7.86	34.01	26.54	153.8	.452	1.70
250	7.36	34.15	26.72	137.2	.524	1.44
300	7.06	34.05	26.68	141.2	.594	1.26
400	6.57	34.25	26.91	121.2	.725	0.50
500	5.99	34.20	26.94	118.6	.845	0.42
600	(5.53)	(34.25)	(27.04)	(110.2)	(.959)	(0.33)

STATION 90.28 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°28'N 117°47'W; September 6, 1952; 0500 GCT; wire angle: 12°; sounding: 280 fms; depth of observation: 407 m; weather: cloudy; sea: smooth; wind: 250°, force 1.

0	17.76	33.31	24.06	386.2	.000	6.27
10	14.50	33.26	24.76	319.9	.035	6.82
20	12.14	33.18	25.17	280.9	.065	6.78
30	11.47	33.12	25.25	273.6	.093	6.18
50	10.60	33.24	25.50	250.4	.145	4.65
75	10.10	33.50	25.79	223.5	.205	3.60
100	9.94	33.67	25.94	208.9	.259	3.01
150	9.70	33.97	26.22	183.8	.357	2.50
200	9.43	34.20	26.44	163.5	.444	1.62
250	9.12	34.17	26.47	161.8	.525	1.53
300	8.66	34.16	26.53	156.4	.605	1.37
400	7.80	34.21	26.70	141.5	.753	0.79

STATION 90.30 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°24'N 117°55'W; September 6, 1952; 0742 GCT; wire angle: 12°; sounding: 320 fms; depth of observation: 496 m; weather: cloudy; sea: smooth; wind: 300°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.86	33.28	23.76	414.2	.000	6.61
10	18.09	33.30	23.97	395.1	.040	6.20
20	15.70	33.25	24.49	345.8	.078	6.55
30	14.13	33.23	24.81	315.2	.111	6.52
50	11.49	33.24	25.34	265.6	.169	5.36
75	9.90	33.26	25.63	238.0	.232	4.77
100	9.25	33.60	26.00	203.1	.287	4.25
150	9.45	33.96	26.25	180.6	.383	2.41
200	9.33	34.11	26.39	168.6	.470	1.87
250	8.05	33.95	26.46	161.9	.553	2.52
300	8.31	34.18	26.60	149.6	.630	1.17
400	7.44	34.22	26.76	135.5	.773	0.73
500	(6.72)	(34.25)	(26.89)	(124.7)	(.903)	(0.51)

STATION 90.37 (Interpolated Values at Standard Depths)

PAOLINA T.: 33°10'N 118°22'W; September 6, 1952; 1235 GCT; wire angle: 5°; sounding: 240 fms; depth of observation: 355 m; weather: partly cloudy; sea: slight; wind: 310°, force 2.

0	21.14	33.57	23.39	449.9	.000	5.15
10	20.82	33.60	23.50	440.1	.045	5.31
20	16.40	33.55	24.56	339.0	.083	5.72
30	11.09	33.46	25.58	242.0	.113	5.72
50	9.94	33.57	25.87	215.1	.158	4.80
75	9.63	33.74	26.05	198.2	.210	3.10
100	9.40	33.91	26.22	182.5	.257	2.82
150	9.23	34.12	26.41	165.3	.344	1.96
200	8.83	34.20	26.54	154.2	.424	1.80
250	8.83	34.27	26.59	149.9	.500	1.26
300	8.41	34.25	26.64	146.1	.574	1.12

STATION 90.45 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°54'N 119°01'W; September 6, 1952; 1825 GCT; wire angle: 15°; sounding: 950 fms; depth of observation: 598 m; weather: partly cloudy; sea: moderate; wind: 310°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.99	33.42	23.84	407.6	.000	5.37
10	18.98	33.46	23.87	403.8	.041	5.42
20	18.44	33.46	24.01	392.0	.080	5.56
30	13.00	33.35	25.14	284.5	.114	5.50
50	10.85	33.31	25.51	249.4	.168	4.80
75	9.65	33.45	25.82	220.0	.226	4.00
100	9.09	33.71	26.12	192.5	.278	3.59
150	8.88	34.02	26.39	167.3	.368	2.52
200	8.60	34.15	26.54	154.4	.448	1.73
250	8.00	34.21	26.67	141.9	.522	1.31
300	7.42	34.25	26.79	131.4	.591	0.83
400	6.82	34.29	26.91	121.7	.717	0.56
500	6.40	34.31	26.98	115.9	.836	0.34
600	(5.84)	(34.31)	(27.05)	(109.8)	(.949)	(0.27)

STATION 90.53 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°38'N 119°29'W; September 6, 1952; 2357 GCT; wire angle: 24°; sounding: 800 fms; depth of observation: 1263 m; weather: clear; sea: very rough; wind: 300°, force 6.

0	18.08	33.44	24.08	384.4	.000
10	18.07	33.46	24.10	383.0	.038
20	18.00	33.40	24.07	386.0	.077
30	12.09	33.21	25.20	278.0	.110
50	10.12	33.42	25.72	229.2	.161
75	9.42	33.54	25.93	209.7	.216
100	9.21	33.72	26.10	193.6	.266
150	8.29	33.92	26.40	165.9	.356
200	8.07	34.09	26.57	150.9	.435
250	7.86	34.16	26.66	143.6	.509
300	7.63	34.22	26.74	136.6	.579
400	6.89	34.30	26.90	121.9	.708
500	6.27	34.30	26.99	114.9	.826
600	5.65	34.35	27.10	104.4	.936
700	5.12	34.44	27.24	92.1	1.034
800	4.66	34.50	27.34	83.0	1.123
1000	4.06	34.51	27.41	76.9	1.282
1200	3.88	34.50	27.42	-	1.436

STATION 90.60 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°23'N 119°57'W; September 7, 1952; 0605 GCT; wire angle: 22°; sounding: 550 fms; depth of observation: 619 m; weather: partly cloudy; sea: very rough; wind: 310°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.44	33.30	24.36	357.5	.000	-
10	16.44	33.27	24.34	360.0	.036	-
20	16.40	33.24	24.32	361.6	.072	-
30	15.00	33.20	24.61	335.0	.107	-
50	12.60	33.06	24.99	298.8	.170	-
75	10.15	32.96	25.36	264.2	.241	-
100	9.44	33.46	25.86	216.6	.301	-
150	8.65	33.81	26.26	179.4	.400	-
200	8.05	33.93	26.45	162.5	.485	-
250	7.51	34.00	26.58	150.4	.563	-
300	6.99	34.05	26.69	140.3	.636	-
400	6.26	34.11	26.84	127.5	.770	-
500	5.67	34.17	26.96	116.7	.892	-
600	5.28	34.33	27.13	101.1	1.001	-

STATION 90.70 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°01'N 120°40'W; September 7, 1952; 1342 GCT; wire angle: 30°; sounding: 2100 fms; depth of observation: 1014 m; weather clear; sea: rough; wind: 320°, force 4.

0	16.62	33.01	24.10	382.6	.000	5.61
10	16.62	33.01	24.10	382.9	.038	5.68
20	16.62	33.03	24.11	381.7	.077	5.60
30	16.60	33.02	24.11	382.3	.115	5.60
50	16.35	32.94	24.11	383.2	.191	5.70
75	12.45	32.99	24.97	301.8	.277	6.35
100	10.52	33.09	25.39	261.2	.347	4.85
150	9.00	33.52	25.98	206.1	.464	3.58
200	8.34	33.80	26.30	176.4	.560	2.80
250	7.82	33.95	26.50	158.5	.643	2.46
300	7.43	33.98	26.58	151.6	.721	1.96
400	6.54	33.96	26.68	142.3	.868	1.35
500	5.62	34.08	26.90	122.8	1.000	0.53
600	5.25	34.21	27.04	109.6	1.116	0.34
700	4.86	34.32	27.17	97.8	1.220	0.28
800	4.47	34.42	27.30	86.6	1.313	0.35
1000	3.82	34.45	27.39	78.4	1.477	0.62

STATION 93.27 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°56'N 117°19'W; September 5, 1952; 1945 GCT; wire angle: 2°; sounding: 48 fms; depth of observation: 50 m; weather: partly cloudy; sea: calm; wind: 300°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	19.02	33.31	23.75	416.3	.000	5.99
10	12.65	33.21	25.10	287.7	.035	6.80
20	11.56	33.22	25.31	267.4	.063	5.77
30	10.83	33.27	25.48	251.6	.089	4.65
50	10.55	33.48	25.69	231.8	.137	3.71

STATION 93.30 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°50'N 117°23'W; September 5, 1952; 1630 GCT; wire angle: 10°; sounding: 380 fms; depth of observation: 236 m; weather: clear; sea: slight; wind: 300°, force 1.

0	19.68	33.35	23.61	428.8	.000	5.69
10	15.74	33.21	24.45	349.4	.039	6.37
20	13.32	33.19	24.95	302.0	.071	6.83
30	12.13	33.20	25.19	279.4	.101	6.85
50	10.58	33.41	25.63	237.5	.152	3.79
75	10.06	33.47	25.77	225.1	.210	3.44
100	9.94	33.69	25.96	207.4	.264	2.65
150	9.74	33.89	26.15	190.4	.364	1.99
200	9.57	34.11	26.35	172.4	.454	1.54

STATION 93.40 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°29'N 118°07'W; September 5, 1952; 1005 GCT; wire angle: 3°; sounding: 950 fms; depth of observation: 606 m; weather: cloudy; sea: slight; wind: 290°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	10$^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.95	33.21	23.69	421.7	.000	5.47
10	18.72	33.28	23.80	411.9	.042	5.44
20	17.30	33.17	24.06	387.2	.082	5.74
30	15.90	33.01	24.26	367.8	.119	6.23
50	12.65	32.95	24.90	307.8	.187	6.00
75	11.20	33.04	25.24	275.8	.260	5.44
100	9.89	33.37	25.72	230.2	.323	4.23
150	8.52	33.81	26.28	177.4	.425	3.02
200	8.18	33.93	26.43	164.0	.510	2.53
250	7.92	34.16	26.65	144.4	.588	1.88
300	7.68	34.14	26.67	143.3	.659	1.14
400	7.13	34.34	26.90	122.3	.792	0.57
500	6.30	34.25	26.94	119.0	.913	0.36
600	5.67	34.32	27.08	106.8	1.026	0.32

STATION 93.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°06'N 118°52'W; September 5, 1952; 0321 GCT; wire angle: 10°; sounding: 750 fms; depth of observation: 647 m; weather: partly cloudy; sea: moderate; wind: 300°, force 4.

0	18.24	33.17	23.83	407.7	.000	5.51
10	18.26	33.12	23.79	411.9	.041	5.54
20	17.32	33.12	24.02	391.0	.081	5.77
30	15.80	33.15	24.39	355.5	.118	6.30
50	12.83	33.04	24.93	304.6	.184	5.75
75	10.75	33.15	25.40	260.1	.255	4.87
100	9.98	33.41	25.74	228.7	.316	4.16
150	8.96	33.73	26.15	190.0	.421	3.51
200	8.27	33.91	26.40	167.2	.510	2.39
250	7.83	34.05	26.57	151.3	.590	1.64
300	7.37	34.15	26.72	138.1	.662	1.23
400	6.88	34.26	26.87	124.7	.793	0.68
500	6.35	34.27	26.95	118.2	.915	0.34
600	5.78	34.27	27.03	112.0	1.030	0.28

STATION 97.30 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°15'N 117°09'W; September 4, 1952; 0143 GCT; wire angle: 3°; sounding: 35 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; wind: 300°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.82	33.31	23.80	411.3	.000	5.73
10	15.46	33.33	24.61	334.5	.037	6.53
20	12.04	33.35	25.32	266.5	.067	5.02
30	11.66	33.39	25.42	257.1	.094	5.00
50	10.96	33.46	25.61	240.2	.143	3.96

STATION 97.32 (Interpolated Values at Standard Depths)

PAOLINA T.: 32°11'N 117°17'W; September 4, 1952; 0626 GCT; wire angle: 2°; sounding: 770 fms; depth of observation: 610 m; weather: clear; sea: slight; wind: 290°, force 2.

0	19.43	33.35	23.67	422.9	.000	5.60
10	18.29	33.24	23.88	404.1	.041	6.04
20	15.60	33.32	24.57	338.5	.078	6.28
30	11.30	33.36	25.47	253.0	.108	6.26
50	10.26	33.43	25.70	230.9	.156	3.73
75	10.14	33.66	25.90	212.3	.212	2.50
100	10.05	33.71	25.96	207.7	.264	2.29
150	9.83	33.88	26.13	192.6	.364	2.02
200	10.06	34.16	26.31	176.6	.457	1.20
250	9.34	34.13	26.40	168.3	.543	1.40
300	9.12	34.28	26.56	154.7	.624	0.95
400	7.57	34.16	26.70	141.8	.772	1.04
500	7.20	34.29	26.85	128.5	.907	0.45
600	6.21	34.31	27.00	114.7	1.028	0.28

STATION 97.40 (Interpolated Values at Standard Depths)

PAOLINA T.: 31°53'N 117°51'W; September 4, 1952; 1232 GCT; wire angle: 35°; sounding: 900 fms; depth of observation: 484 m; weather: partly cloudy; sea: slight; wind: 310°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	20.06	33.42	23.56	433.3	.000	5.18
10	20.06	33.41	23.56	434.4	.043	5.35
20	19.60	33.39	23.66	425.0	.086	5.33
30	16.00	33.33	24.48	346.6	.125	6.60
50	10.98	33.40	25.55	245.0	.184	4.44
75	9.86	33.70	25.97	204.8	.241	3.02
100	10.01	33.99	26.18	186.4	.290	1.95
150	9.75	34.05	26.27	178.7	.381	1.63
200	9.68	34.26	26.45	163.1	.466	1.31
250	9.23	34.27	26.53	156.2	.546	1.13
300	8.71	34.27	26.61	149.0	.622	1.05
400	7.87	34.31	26.77	135.1	.764	0.65
500	(6.70)	(34.31)	(26.94)	(120.0)	(.892)	(0.57)

STATION 97.50 (Interpolated Values at Standard Depths)

PAOLINA T.: 31°30'N 118°32'W; September 4, 1952; 1934 GCT; wire angle: 12°; sounding: 2100 fms; depth of observation: 652 m; weather: partly cloudy; sea: moderate; wind: 300°, force 4.

0	18.96	33.28	23.74	416.6	.000	5.28
10	18.96	33.28	23.74	417.1	.042	4.78
20	18.88	33.28	23.76	415.6	.083	5.00
30	17.50	33.27	24.09	384.3	.123	5.55
50	14.83	33.21	24.65	331.3	.195	5.94
75	12.95	33.22	25.05	294.2	.273	5.69
100	10.43	33.23	25.52	249.4	.341	5.01
150	9.74	33.75	26.04	200.7	.454	3.01
200	8.86	33.99	26.37	170.1	.546	2.54
250	8.11	34.12	26.59	150.2	.626	2.73
300	7.71	34.21	26.72	138.5	.698	2.65
400	6.87	34.24	26.86	126.0	.831	2.05
500	6.34	34.25	26.94	119.5	.953	1.59
600	5.72	34.25	27.02	112.7	1.069	0.73

STATION 100.29 (Interpolated Values at Standard Depths)

CREST: 31°42'N 116°44'W; September 4, 1952; 0425 GCT; wire angle: 3°; sounding: 83 fms; depth of observation: 50 m; weather: partly cloudy; sea: slight; wind: 300°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.93	33.37	24.75		.000	6.84
10	11.98	33.28	25.28		.030	5.87
20	11.09	33.33	25.48		.056	5.07
30	10.70	33.39	25.60		.080	4.15
50	10.25	33.42	25.70		.127	4.06

STATION 100.30 (Interpolated Values at Standard Depths)

CREST: 31°40'N 116°47'W; September 4, 1952; 0553 GCT; wire angle: 20°; sounding: 270 fms; depth of observation: 379 m; weather: partly cloudy sea: slight; wind: 300°, force 1.

0	18.24	33.42	24.03	.000	6.46
10	17.31	33.40	24.23	.038	6.73
20	13.40	33.35	25.06	.071	6.58
30	11.30	33.35	25.46	.098	4.65
50	10.33	33.55	25.79	.146	3.44
75	10.15	33.61	25.86	.201	3.05
100	9.96	33.67	25.94	.254	3.06
150	10.00	33.76	26.00	.357	2.57
200	10.05	34.20	26.34	.452	1.33
250	9.74	34.25	26.43	.537	0.99
300	9.16	34.24	26.52	.618	0.87

STATION 100.40 (Interpolated Values at Standard Depths)

CREST: 31°21'N 117°34'W; September 4, 1952; 1123 GCT; wire angle: 10°; sounding: 1050 fms; depth of observation: 1237 m; weather: partly cloudy; sea: moderate; wind: 320°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	20.28	33.40	23.49		.000	5.21
10	20.27	33.40	23.49		.044	5.21
20	17.00	33.19	24.15		.085	5.22
30	15.37	33.13	24.47		.121	6.13
50	13.71	33.10	24.80		.188	6.33
75	12.12	33.16	25.16		.263	5.74
100	10.48	33.39	25.63		.328	4.38
150	9.45	33.81	26.14		.436	3.22
200	8.48	33.99	26.43		.525	2.76
250	7.91	34.07	26.58		.603	2.24
300	7.49	34.15	26.70		.676	1.51
400	7.29	34.29	26.84		.810	0.57
500	6.69	34.31	26.94		.934	0.30
600	5.99	34.35	27.06		1.048	0.30
700	5.33	34.39	27.17		1.152	0.29
800	4.81	34.41	27.25		1.248	0.31
1000	4.08	34.43	27.35		1.423	0.49

STATION 100.50 (Interpolated Values at Standard Depths)

CREST: 31°01'N 118°07'W; September 4, 1952; 1703 GCT; wire angle: 33°; sounding: 2000+ fms; depth of observation: 523 m; weather: partly cloudy; sea: moderate; wind: 330°, force 5.

0	20.11	33.44	23.57		.000	5.37
10	20.12	33.39	23.53		.044	5.39
20	20.10	33.38	23.52		.087	5.37
30	16.65	33.21	24.24		.128	6.26
50	12.92	33.20	25.04		.194	6.74
75	10.28	33.34	25.63		.261	4.64
100	9.72	33.54	25.88		.317	4.07
150	9.01	33.85	26.24		.417	3.15
200	8.80	34.13	26.49		.502	1.99
250	8.72	34.31	26.64		.578	1.09
300	8.28	34.32	26.72		.649	0.78
400	7.00	34.26	26.86		.781	0.53
500	6.12	34.30	27.01		.901	0.37

STATION 100.60 (Interpolated Values at Standard Depths)

CREST: 30°41'N 118°48'W; September 4, 1952; 2237 GCT; wire angle: 38°; sounding: 2000+ fms; depth of observation: 1094 m; weather: 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)
0	19.18	33.24	23.65		.000	5.52
10	19.17	33.26	23.67		.042	6.00
20	19.00	33.18	23.65		.085	6.12
30	16.60	33.14	24.20		.125	6.21
50	14.60	33.12	24.63		.196	6.34
75	13.50	33.12	24.86		.276	6.24
100	11.87	33.14	25.19		.350	6.18
150	9.46	33.55	25.93		.473	4.25
200	8.65	33.91	26.34		.569	3.43
250	8.01	34.05	26.55		.651	2.66
300	7.58	34.15	26.69		.725	1.80
400	6.82	34.21	26.84		.859	0.80
500	6.22	34.26	26.96		.981	0.61
600	5.63	34.33	27.09		1.093	0.50
700	5.11	34.41	27.22		1.193	0.45
800	4.65	34.45	27.30		1.285	0.45
1000	3.91	34.49	27.41		1.448	0.62

STATION 100.70 (Interpolated Values at Standard Depths)

CREST: 30°21'N 119°27'W; September 5, 1952; 0454, 0520 GCT; wire angle: 32°, 35°; sounding: 2000+ fms; depth of observation: 586 m; weather: cloudy; sea: very rough; wind: 305°, force 6.

0	18.74	33.19	23.73	.000	5.60
10	18.73	33.19	23.73	.042	6.00
20	18.71	33.13	23.69	.084	6.02
30	17.40	33.19	24.05	.124	5.51
50	15.00	33.17	24.58	.197	6.31
75	13.30	33.14	24.91	.277	6.48
100	11.57	33.14	25.25	.350	5.50
150	9.42	33.44	25.85	.474	4.48
200	8.63	33.92	26.35	.571	3.51
250	8.04	34.02	26.52	.653	2.61
300	7.49	34.07	26.64	.729	2.06
400	6.54	34.14	26.83	.866	1.22
500	5.94	34.22	26.97	.989	0.63
600	(5.52)	(34.30)	27.08	1.100	-

STATION 100.80 (Interpolated Values at Standard Depths)

CREST: 30°01'N 120°07'W; September 5, 1952; 1059 GCT; wire angle: 18°; sounding: 2000+ fms; depth of observation: 1268 m; weather: partly cloudy; sea: moderate; wind: 355°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.10	33.17	23.87		.000	5.61
10	18.08	33.17	23.87		.040	5.60
20	18.02	33.11	23.84		.081	5.67
30	16.88	33.10	24.11		.121	5.75
50	15.03	33.17	24.58		.193	6.22
75	13.75	33.07	24.77		.275	6.08
100	10.80	33.12	25.37		.348	5.45
150	9.05	33.59	26.03		.464	4.06
200	8.24	33.90	26.40		.557	3.31
250	7.65	33.97	26.54		.637	2.66
300	7.12	34.02	26.65		.712	1.98
400	6.38	34.13	26.84		.848	0.95
500	5.98	34.23	26.97		.970	0.40
600	5.49	34.31	27.09		1.080	0.29
700	4.93	34.36	27.20		1.181	0.30
800	4.48	34.40	27.28		1.274	0.40
1000	3.78	34.49	27.43		1.437	0.68

STATION 103.30 (Interpolated Values at Standard Depths)

CREST: 31°05'N 116°25'W; September 6, 1952; 1335 GCT; wire angle: 3°; sounding: 40 fms; depth of observation: 50 m; weather: partly cloudy; sea: slight; wind: 20°, force 3.

0	16.01	33.30	24.46	.000	5.99
10	15.54	33.26	24.53	.034	6.18
20	12.22	33.28	25.23	.065	5.87
30	11.38	33.28	25.39	.092	5.37
50	10.80	33.46	25.63	.142	3.74

STATION 107.32 (Interpolated Values at Standard Depths)

CREST: 30°26'N 116°11'W; September 6, 1952; 1840 GCT; wire angle: 5°; sounding: 250 fms; depth of observation: 344 m; weather: partly cloudy; sea: slight; wind: 335°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.36	33.37	24.43		.000	-
10	12.60	33.26	25.14		.032	6.14
20	12.11	33.26	25.24		.060	5.89
30	11.58	33.27	25.35		.087	5.35
50	11.04	33.44	25.58		.137	4.04
75	10.96	33.42	25.57		.198	3.99
100	10.58	33.58	25.77		.257	3.44
150	10.32	33.82	26.00		.365	2.19
200	10.35	34.03	26.16		.464	1.12
250	10.29	34.25	26.34		.555	1.22
300	9.30	34.35	26.58		.637	0.87

STATION 107.35 (Interpolated Values at Standard Depths)

CREST: 30°20'N 116°23'W; September 6, 1952; 2055 GCT; wire angle: 21°; sounding: 900 fms; depth of observation: 617 m; weather: partly cloudy; sea: moderate; wind: 330°, force 4.

0	19.20	33.35	23.73	.000	5.93
10	15.60	33.24	24.51	.038	6.43
20	13.50	33.21	24.93	.070	6.50
30	13.03	33.23	25.04	.100	6.36
50	11.29	33.31	25.43	.155	4.85
75	10.61	33.48	25.68	.217	3.60
100	10.46	33.73	25.90	.273	2.38
150	10.39	34.13	26.23	.372	0.75
200	10.67	34.34	26.34	.461	0.88
250	9.62	34.27	26.47	.545	1.35
300	9.63	34.38	26.55	.624	0.72
400	8.31	34.40	26.78	.770	0.41
500	6.94	34.35	26.94	.897	0.34
600	6.09	34.31	27.02	1.014	0.30

STATION 107.40 (Interpolated Values at Standard Depths)

CREST: 30°11'N 116°43'W; September 7, 1952; 0007 GCT; wire angle: 31°; sounding: 1500 fms; depth of observation: 548 m; weather: partly cloudy; sea: moderate; wind: 340°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	20.75	33.42	23.38		.000	5.20
10	20.71	33.44	23.41		.045	5.37
20	16.85	33.22	24.21		.086	5.88
30	15.90	33.30	24.48		.122	6.05
50	14.63	33.22	24.70		.189	6.09
75	12.50	33.19	25.11		.266	5.90
100	11.11	33.25	25.42		.335	4.40
150	9.55	33.69	26.03		.450	3.20
200	8.68	34.01	26.41		.542	2.58
250	8.29	34.09	26.54		.622	1.98
300	7.91	34.16	26.65		.697	1.42
400	6.92	34.24	26.85		.833	0.85
500	6.07	34.25	26.97		.954	0.49

STATION 110.33 (Interpolated Values at Standard Depths)

CREST: 29°50'N 115°52'W; September 8, 1952; 0012 GCT; wire angle: 6°; sounding: 38 fms; depth of observation: 50 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

0	19.40	33.30	23.64		.000	5.83
10	16.07	33.18	24.35		.039	6.14
20	14.28	33.08	24.67		.074	6.33
30	13.83	33.17	24.83		.106	6.47
50	11.51	33.22	25.32		.164	5.44

STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°46'N 116°00'W; September 7, 1952; 2211 GCT; wire angle: 25°; sounding: 840 fms; depth of observation: 578 m; weather: partly cloudy sea: moderate; wind: 340°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	20.46	33.37	23.42		.000	-
10	19.56	33.35	23.64		.044	5.82
20	18.00	33.17	23.89		.085	6.13
30	15.48	33.17	24.48		.123	6.15
50	13.26	33.10	24.89		.188	6.18
75	11.50	33.24	25.34		.260	5.96
100	10.31	33.42	25.69		.322	4.68
150	9.46	33.80	26.13		.429	3.82
200	9.53	34.20	26.43		.518	2.00
250	9.13	34.28	26.55		.598	1.46
300	8.65	34.29	26.64		.673	0.99
400	7.72	34.35	26.83		.811	0.43
500	6.97	34.40	26.97		.935	0.26

STATION 110.40 (Interpolated Values at Standard Depths)

CREST: 29°34'N 116°21'W; September 7, 1952; 1903 GCT; wire angle: 12°; sounding: 1150 fms; depth of observation: 627 m; weather: clear; sea: moderate; wind: 340°, force 4.

0	21.00	33.42	23.31		.000	5.33
10	20.86	33.42	23.35		.046	5.23
20	20.60	33.44	23.44		.091	5.30
30	17.80	33.30	24.04		.132	5.67
50	14.50	33.10	24.64		.205	6.26
75	12.70	33.20	25.08		.282	6.05
100	11.02	33.42	25.56		.350	4.51
150	10.56	34.00	26.10		.460	2.01
200	9.72	34.17	26.37		.551	1.78
250	8.67	34.20	26.56		.632	1.50
300	8.59	34.30	26.66		.706	0.86
400	7.87	34.34	26.80		.845	0.43
500	6.78	34.31	26.93		.972	0.37
600	6.02	34.31	27.03		1.089	0.28

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°18'N 117°02'W; September 7, 1952; 1435 GCT; wire angle: 24°; sounding: 1750 fms; depth of observation: 1149 m; weather: clear; sea: moderate; wind: 335°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.22	33.46	23.29		.000	5.46
10	21.06	33.46	23.33		.046	5.35
20	17.78	33.26	24.02		.088	5.92
30	17.18	33.27	24.17		.127	5.98
50	15.91	33.37	24.54		.199	6.15
75	14.19	33.30	24.86		.280	6.33
100	12.47	33.31	25.21		.354	5.54
150	9.68	33.50	25.86		.479	4.50
200	8.90	33.92	26.31		.577	2.90
250	8.67	34.15	26.53		.660	1.80
300	8.22	34.24	26.67		.735	1.23
400	7.23	34.26	26.83		.872	0.79
500	6.85	34.32	26.93		.997	0.47
600	6.00	34.37	27.08		1.112	0.24
700	5.23	34.38	27.18		1.215	0.29
800	4.81	34.38	27.23		1.313	0.38
1000	4.22	34.41	27.32		1.493	0.55

STATION 110.60 (Interpolated Values at Standard Depths)

CREST: 28°59'N 117°45'W; September 7, 1952; 0842 GCT; wire angle: 30°; sounding: 1830 fms; depth of observation: 535 m; weather: partly cloudy sea: rough; wind: 285°, force 4.

0	21.26	33.49	23.30		.000	5.65
10	21.27	33.50	23.30		.046	5.22
20	21.28	33.51	23.31		.092	5.33
30	20.18	33.44	23.55		.137	5.51
50	14.90	33.33	24.73		.213	6.35
75	12.80	33.35	25.18		.288	5.85
100	10.74	33.66	25.80		.351	5.47
150	9.50	34.02	26.29		.451	2.54
200	8.58	34.10	26.50		.535	2.60
250	8.51	34.26	26.64		.611	1.69
300	8.09	34.31	26.74		.681	1.21
400	7.59	34.35	26.84		.814	0.67
500	6.72	34.34	26.96		.937	0.34

STATION 113.30 (Interpolated Values at Standard Depths)

CREST: 29°22'N 115°18'W; September 8, 1952; 0433 GCT; wire angle: 0°; sounding: 30 fms; depth of observation: 30 m; weather: clear; sea: moderate; wind: 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	19.54	33.54	23.79		.000	5.73
10	15.90	33.48	24.62		.037	6.28
20	12.86	33.53	25.30		.067	5.11
30	11.62	33.57	25.57		.093	3.91

STATION 113.40 (Interpolated Values at Standard Depths)

CREST: 29°02'N 115°58'W; September 8, 1952; 0908 GCT; wire angle: 17°; sounding: 850 fms; depth of observation: 607; weather: clear; sea: moderate; wind: 310°, force 4.

0	21.13	33.45	23.30		.000	5.26
10	21.12	33.44	23.30		.046	5.25
20	18.78	33.51	23.96		.089	5.90
30	16.43	33.31	24.37		.126	6.08
50	12.82	33.30	25.13		.191	5.82
75	11.71	33.37	25.40		.259	4.70
100	10.67	33.72	25.86		.319	3.28
150	11.54	34.30	26.15		.421	1.25
200	11.00	34.37	26.30		.513	0.88
250	10.74	34.53	26.48		.597	0.33
300	9.98	34.51	26.59		.676	0.35
400	7.87	34.33	26.79		.818	0.67
500	6.69	34.29	26.92		.946	0.50
600	5.94	34.33	27.05		1.061	0.37

STATION 117.26 (Interpolated Values at Standard Depths)

CREST: 28°56'N 114°41'W; September 8, 1952; 2024 GCT; wire angle: 0°; sounding: 45 fms; depth of observation: 50 m; weather: partly cloudy; sea: slight; wind: 255°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	22.10	33.58	23.13		.000	5.78
10	19.99	33.44	23.60		.045	6.01
20	15.22	33.42	24.73		.083	6.57
30	12.44	33.27	25.18		.113	5.67
50	11.14	33.71	25.77		.164	2.47

STATION 117.30 (Interpolated Values at Standard Depths)

CREST: 28°49'N 115°03'W; September 8, 1952; 1835 GCT; wire angle: 5°; sounding: 53 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; wind: 295°, force 2.

0	18.38	33.28	23.88		.000	5.95
10	17.85	33.28	24.01		.040	5.97
20	15.71	33.22	24.47		.077	6.23
30	14.40	33.26	24.78		.110	6.27
50	12.78	33.22	25.08		.171	5.94

STATION 117.40 (Interpolated Values at Standard Depths)

CREST: 28°28'N 115°36'W; September 8, 1952; 1405 GCT; wire angle: 7°; sounding: 550 fms; depth of observation: 584 m; weather: clear; sea: slight; wind: 340°, force 2.

0	20.50	33.35	23.39		.000	5.34
10	20.07	33.40	23.55		.044	5.93
20	18.09	33.35	24.01		.086	6.51
30	17.08	33.30	24.21		.124	6.23
50	13.74	33.22	24.89		.192	6.62
75	12.80	33.27	25.11		.267	5.84
100	11.58	33.63	25.62		.332	3.86
150	11.54	34.16	26.04		.443	1.34
200	11.28	34.30	26.20		.540	0.91
250	11.01	34.44	26.36		.630	0.63
300	10.00	34.45	26.54		.712	0.70
400	8.00	34.33	26.77		.858	0.50
500	7.03	34.33	26.91		.988	0.42
600	(5.92)	(34.33)	(27.06)		(1.104)	-

STATION 120.25 (Interpolated Values at Standard Depths)

CREST: 28°23'N 114°14'W; September 9, 1952; 0450 GCT; wire angle: 0°; sounding: 30 fms; depth of observation: 30 m; weather: clear; sea: slight; wind: 290°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.12	33.46	23.31		.000	5.68
10	18.97	33.44	23.86		.043	5.97
20	15.31	33.35	24.65		.080	6.69
30	14.20	33.22	24.79		.112	6.60

STATION 120.30 (Interpolated Values at Standard Depths)

CREST: 28°13'N 114°34'W; September 9, 1952; 0740, 0752 GCT; wire angle: 18°, 18°; sounding: 47 fms; depth of observation: 71 m; weather: clear; sea: moderate; wind: 310°, force 4.

0	21.13	33.55	23.38		.000	5.48
10	21.05	33.49	23.35		.045	5.49
20	20.45	33.48	23.51		.090	5.61
30	19.42	33.42	23.73		.133	5.74
50	14.71	33.21	24.68		.208	5.61

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°02'N 114°58'W; September 9, 1952; 1122 GCT; wire angle: 0°; sounding: 42 fms; depth of observation: 50 m; weather: clear; sea: smooth; wind: 335°, force 1.

0	(21.08)	33.49	23.35		.000	5.60
10	21.07	33.48	23.34		.045	5.65
20	20.30	33.46	23.53		.090	5.75
30	17.48	33.24	24.07		.131	6.27
50	12.80	33.19	25.05		.199	6.46

STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°43'N 115°33'W; September 10, 1952; 0013 GCT; wire angle: 20°; sounding: 1450 fms; depth of observation: 1212 m; weather: partly cloudy; sea: moderate; wind: 335°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.30	33.49	23.29		.000	5.45
10	21.30	33.49	23.29		.046	5.60
20	19.60	33.47	23.72		.090	6.28
30	17.22	33.42	24.27		.129	6.27
50	13.79	33.31	24.95		.196	5.90
75	11.70	33.37	25.40		.267	5.00
100	10.59	33.58	25.76		.328	4.37
150	9.69	34.00	26.24		.429	2.89
200	9.72	34.26	26.44		.516	1.95
250	9.33	34.31	26.55		.595	1.22
300	8.87	34.33	26.63		.671	0.82
400	7.73	34.30	26.79		.811	0.49
500	7.04	34.34	26.91		.939	0.31
600	6.24	34.34	27.02		1.057	0.32
700	5.45	34.34	27.12		1.165	0.39
800	4.84	34.37	27.22		1.265	0.46
1000	4.00	34.45	27.37		1.440	0.60

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°32'N 115°53'W; September 10, 1952; 0351 GCT; wire angle: 33°; sounding: 1850 fms; depth of observation: 547 m; weather: clear; sea: rough; wind: 350°, force 5.

0	22.76	33.58	22.95		.000	5.17
10	22.74	33.59	22.96		.049	5.15
20	16.71	33.45	24.41		.091	6.30
30	13.66	33.42	25.06		.124	6.50
50	12.30	33.57	25.44		.178	3.56
75	10.70	33.59	25.75		.239	3.42
100	10.57	33.92	26.03		.292	2.21
150	9.97	34.18	26.34		.386	1.53
200	9.23	34.29	26.55		.467	1.08
250	8.92	34.33	26.63		.542	0.65
300	8.49	34.34	26.70		.614	0.40
400	7.76	34.37	26.84		.749	0.21
500	6.88	34.37	26.96		.872	0.20

STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°13'N 116°32'W; September 10, 1952; 0931 GCT; wire angle: 23°; sounding: 2000+ fms; depth of observation: 1279 m; weather: cloudy; sea: moderate; wind: 330°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	22.28	33.48	23.01		.000	5.32
10	22.22	33.44	22.99		.049	5.26
20	18.20	33.38	24.00		.093	5.84
30	13.07	33.37	25.14		.127	5.89
50	11.50	33.44	25.49		.180	4.28
75	10.56	33.55	25.75		.240	3.62
100	9.69	33.68	25.99		.294	3.24
150	9.81	34.31	26.47		.385	1.50
200	10.46	34.23	26.29		.470	1.23
250	8.52	34.21	26.60		.552	1.20
300	8.06	34.31	26.74		.623	0.67
400	7.30	34.34	26.88		.753	0.28
500	6.24	34.34	27.02		.872	0.24
600	5.56	34.35	27.12		.979	0.25
700	5.08	34.39	27.20		1.078	0.28
800	4.68	34.41	27.27		1.172	0.38
1000	4.05	34.46	27.37		1.342	0.62

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°52'N 117°10'W; September 10, 1952; 1500 GCT; wire angle: 22°; sounding: 2000+ fms; depth of observation: 590 m; weather: cloudy; sea: moderate; wind: 350°, force 5.

0	21.60	33.42	23.15		.000	5.21
10	21.59	33.44	23.17		.047	5.17
20	19.29	33.34	23.70		.092	5.60
30	16.69	33.24	24.26		.131	6.23
50	14.05	33.13	24.75		.200	6.24
75	11.29	33.36	25.47		.272	4.76
100	10.58	33.71	25.87		.331	3.14
150	10.83	34.27	26.26		.430	1.08
200	10.52	34.42	26.43		.517	0.72
250	10.08	34.45	26.53		.597	0.55
300	9.38	34.44	26.64		.673	0.60
400	8.10	34.39	26.80		.813	0.33
500	6.87	34.36	26.95		.938	0.30
600	(6.12)	(34.36)	27.05		1.053	(0.34)

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°32'N 117°49'W; September 10, 1952; 2030 GCT; wire angle: 30°; sounding: 2000+ fms; depth of observation: 1136 m; weather: cloudy; sea: moderate; wind: 350°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.86	33.41	23.07		.000	4.95
10	21.83	33.42	23.09		.048	5.30
20	20.86	33.37	23.31		.095	5.67
30	17.45	33.37	24.18		.137	5.82
50	16.08	33.37	24.50		.209	5.92
75	14.70	33.40	24.82		.291	5.79
100	12.75	33.30	25.15		.367	5.40
150	10.53	33.63	25.81		.493	3.78
200	9.45	33.93	26.23		.595	3.34
250	8.78	34.11	26.48		.681	2.32
300	8.24	34.23	26.65		.758	1.29
400	7.35	34.33	26.86		.893	0.60
500	6.54	34.38	27.01		1.012	0.29
600	5.83	34.39	27.11		1.120	0.22
700	5.29	34.43	27.21		1.220	0.28
800	4.82	34.46	27.29		1.312	0.37
1000	4.04	34.47	27.38		1.479	0.56

STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°13'N 118°28'W; September 11, 1952; 0206 GCT; wire angle: 28°; sounding: 2000+ fms; depth of observation: 522 m; weather: cloudy; sea: rough; wind: 10°, force 5.

0	21.42	33.84	23.52		.000	5.02
10	23.04	33.81	23.04		.046	5.20
20	23.03	33.81	23.05		.094	5.06
30	20.99	33.73	23.55		.140	5.42
50	18.30	33.63	24.17		.222	5.86
75	16.42	33.55	24.56		.312	5.90
100	15.29	33.51	24.78		.394	5.64
150	10.80	33.53	25.69		.533	4.05
200	9.86	33.99	26.21		.638	2.98
250	9.37	34.19	26.44		.726	1.46
300	8.86	34.27	26.59		.804	0.97
400	7.74	34.33	26.81		.946	0.68
500	6.78	34.34	26.95		1.071	0.37

STATION 123.37 (Interpolated Values at Standard Depths)

CREST: 27°21'N 114°40'W; September 12, 1952; 0320 GCT; wire angle: 0°; sounding: 35 fms; depth of observation: 30 m; weather: clear; sea: moderate; wind: 315°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.64	33.75	24.18		.000	5.57
10	18.58	33.77	24.21		.037	5.59
20	16.90	33.86	24.68		.072	4.31
30	16.15	33.82	24.83		.104	4.04

STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°15'N 114°47'W; September 12, 1952; 0138 GCT; wire angle: 35°; sounding: 200 fms; depth of observation: 233 m; weather: clear; sea: rough; wind: 315°, force 6.

0	18.58	33.71	24.16		.000	5.68
10	18.40	33.71	24.21		.037	5.66
20	16.20	33.68	24.71		.072	5.00
30	15.03	33.70	24.98		.104	3.56
50	14.41	33.94	25.30		.160	2.35
75	13.53	34.02	25.55		.225	1.08
100	12.98	34.21	25.80		.284	0.79
150	12.23	34.53	26.20		.386	0.61
200	11.67	34.59	26.35		.476	0.43

STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 27°01'N 115°32'W; September 11, 1952; 2025 GCT; wire angle: 25°; sounding: 2000+ fms; depth of observation: 602 m; weather: clear; sea: rough; wind: 350°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.49	33.51	23.25		.000	5.66
10	21.50	33.55	23.28		.046	5.12
20	20.50	33.50	23.51		.091	5.80
30	17.60	33.35	24.13		.132	7.06
50	14.24	33.24	24.80		.202	7.05
75	11.80	33.28	25.31		.275	5.58
100	10.48	33.53	25.74		.337	4.10
150	9.88	34.11	26.30		.439	2.24
200	9.56	34.26	26.47		.523	1.25
250	9.23	34.35	26.59		.601	0.78
300	9.00	34.45	26.71		.673	0.34
400	7.68	34.34	26.82		.808	0.42
500	6.86	34.42	27.00		.931	0.31
600	6.09	34.38	27.07		1.041	0.25

STATION 127.34 (Interpolated Values at Standard Depths)

CREST: 26°55'N 114°06'W; September 12, 1952; 0720 GCT; wire angle: 15°; sounding: 42 fms; depth of observation: 48 m; weather: clear; sea: slight; wind: 20°, force 5.

0	21.48	33.57	23.30	.000	5.42
10	21.46	33.60	23.33	.046	5.40
20	20.60	33.60	23.56	.090	5.43
30	16.60	33.24	24.28	.130	6.11

STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°44'N 114°30'W; September 12, 1952; 1043 GCT; wire angle: 18°; sounding: 1800 fms; depth of observation: 618 m; weather; clear; sea: moderate; wind: 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (10^5 mg/cm^3)	ΔD (dyn.m.)	O_2 (ml/L)
0	22.38	33.53	23.02	.000	5.21
10	22.37	33.46	22.97	.049	5.21
20	21.65	33.51	23.21	.097	5.35
30	17.59	33.44	24.20	.139	6.36
50	12.76	33.38	25.21	.204	5.35
75	10.68	33.48	25.67	.268	4.22
100	10.23	33.69	25.91	.324	3.48
150	9.62	34.13	26.36	.420	2.48
200	9.65	34.26	26.45	.503	1.60
250	8.96	34.30	26.60	.581	1.15
300	8.86	34.42	26.71	.654	0.54
400	7.33	34.34	26.87	.786	0.55
500	7.09	34.47	27.01	.906	0.27
600	6.06	34.42	27.11	1.015	0.28

STATION 127.50 (Interpolated Values at Standard Depths)

CREST: 26°23'N 115°10'W; September 12, 1952; 1609 GCT; wire angle: 32°; sounding: 1720 fms; depth of observation: 554 m; weather:partly cloudy sea: moderate; wind: 330°, force 5.

0	22.70	33.70	23.06	.000	5.25
10	22.73	33.71	23.06	.048	5.07
20	22.73	33.71	23.06	.096	5.18
30	22.65	33.71	23.08	.145	5.12
50	18.47	33.51	24.04	.232	5.87
75	16.21	33.69	24.71	.321	5.51
100	13.25	33.63	25.30	.396	4.80
150	10.61	33.90	26.01	.515	2.85
200	9.72	34.19	26.39	.608	1.95
250	8.85	34.26	26.58	.688	1.41
300	8.51	34.31	26.68	.761	0.98
400	7.49	34.37	26.87	.895	0.37
500	6.64	34.39	27.01	1.013	0.31

STATION 130.30 (Interpolated Values at Standard Depths)

CREST: 26°29'N 113°29'W; September 13, 1952; 1448 GCT; wire angle: 5°; sounding: 41 fms; depth of observation: 49 m; weather: clear; sea: slight; wind: 40°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	24.48	33.91	22.70		.000	4.95
10	24.48	33.91	22.70		.052	4.92
20	20.88	33.68	23.54		.099	5.49
30	14.60	33.33	24.79		.137	6.00

STATION 130.35 (Interpolated Values at Standard Depths)

CREST: 26°14'N 113°46'W; September 13, 1952; 1206 GCT; wire angle: 20°; sounding: 68 fms; depth of observation: 70 m; weather: clear; sea: slight; wind: 335°, force 4.

0	20.86	33.60	23.49		.000	5.40
10	20.74	33.60	23.52		.044	5.47
20	17.60	33.33	24.11		.085	5.95
30	15.58	33.33	24.58		.121	6.04
50	13.84	33.27	24.90		.185	6.03

STATION 130.40 (Interpolated Values at Standard Depths)

CREST: 26°06'N 114°06'W; September 13, 1952; 0854 GCT; wire angle: 40°; sounding: 950 fms; depth of observation: 1019 m; weather: clear; sea: rough; wind: 20°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.82	33.51	23.16		.000	5.25
10	21.85	33.57	23.20		.047	5.20
20	21.79	33.51	23.17		.094	5.29
30	17.46	33.52	24.29		.136	5.95
50	16.25	33.57	24.61		.206	6.04
75	14.41	33.41	24.89		.287	5.85
100	12.12	33.36	25.31		.359	5.49
150	11.00	34.13	26.12		.474	1.30
200	11.00	34.34	26.28		.568	1.08
250	9.78	34.33	26.49		.653	1.15
300	9.67	34.45	26.60		.731	0.56
400	8.34	34.49	26.84		.871	0.27
500	7.29	34.41	26.93		.995	0.24
600	6.22	34.39	27.06		1.110	0.40
700	5.52	34.38	27.14		1.215	0.45
800	5.00	34.39	27.21		1.314	0.35
1000	4.23	(34.48)	27.37		1.491	0.54

STATION 130.50 (Interpolated Values at Standard Depths)

CREST: 25°49'N 114°46'W; September 13, 1952; 0329 GCT; wire angle: 30°; sounding: 1850 fms; depth of observation: 537 m; weather: partly cloudy; sea: moderate; wind: 330°, force 6.

0	22.94	33.60	22.91		.000	5.31
10	22.95	33.57	22.89		.050	4.83
20	22.95	33.60	22.91		.099	4.78
30	20.05	33.48	23.61		.146	5.27
50	17.39	33.37	24.19		.226	5.60
75	15.30	33.28	24.60		.315	6.04
100	13.77	33.28	24.93		.396	5.98
150	10.21	33.43	25.71		.530	4.15
200	9.87	34.08	26.28		.633	2.15
250	9.40	34.20	26.45		.719	1.63
300	8.87	34.26	26.58		.798	1.23
400	8.04	34.36	26.79		.941	0.43
500	7.00	34.38	26.95		1.067	0.28

STATION 130.60 (Interpolated Values at Standard Depths)

CREST: 25°29'N 115°24'W; September 12, 1952; 2202 GCT; wire angle: 22°; sounding: 2000+ fms; depth of observation: 1165 m; weather: partly cloudy; sea: moderate; wind: 345°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	23.27	33.64	22.85		.000	5.23
10	23.25	33.68	22.88		.050	5.22
20	23.15	33.81	23.01		.099	5.40
30	21.21	33.82	23.56		.145	5.50
50	18.40	33.75	24.24		.226	5.60
75	16.33	33.61	24.62		.314	6.15
100	15.42	33.57	24.80		.396	5.62
150	11.04	33.60	25.70		.534	4.06
200	9.90	34.10	26.29		.637	2.56
250	9.16	34.19	26.48		.722	1.52
300	8.69	34.24	26.59		.800	0.98
400	8.04	34.37	26.79		.942	0.64
500	6.96	34.41	26.98		1.066	0.25
600	6.21	34.34	27.03		1.181	0.11
700	5.55	34.37	27.13		1.289	0.32
800	4.98	34.41	27.23		1.387	0.49
1000	4.10	34.47	27.38		1.560	0.52

STATION 133.25 (Interpolated Values at Standard Depths)

CREST: 26°04'N 112°47'W; September 13, 1952; 1856 GCT; wire angle: 0°; sounding: 45 fms; depth of observation: 50 m; weather: clear; sea: slight; wind: 305°, force 3.

0	22.97	33.71	22.99		.000	5.17
10	20.22	33.53	23.61		.046	5.63
20	15.16	33.31	24.66		.084	6.07
30	14.84	33.33	24.74		.117	5.91
50	12.82	33.51	25.30		.176	4.54

STATION 133.30 (Interpolated Values at Standard Depths)

CREST: 25°54'N 113°08'W; September 13, 1952; 2104 GCT; wire angle: 4°; sounding: 105 fms; depth of observation: 149 m; weather: clear; sea: slight; wind: 270°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	23.48	33.89	22.98		.000	4.96
10	23.20	33.91	23.07		.049	5.01
20	21.90	33.89	23.42		.095	5.11
30	19.70	33.82	23.96		.137	5.11
50	12.69	33.64	25.42		.203	3.56
75	11.93	34.10	25.92		.261	2.20
100	12.80	34.41	26.00		.313	0.89
150	(12.45)	(34.56)	(26.13)		(.411)	(0.50)

STATION 137.23 (Interpolated Values at Standard Depths)

CREST: 25°34'N 112°19'W; September 14, 1952; 0443 GCT; wire angle: 5°; sounding: 40 fms; depth of observation: 50 m; weather: clear; sea: slight; wind: 315°, force 3.

0	24.90	33.95	22.60	.000	5.84
10	24.40	33.91	22.72	.052	5.61
20	17.80	33.33	24.06	.097	5.98
30	16.04	33.33	24.48	.134	6.07
50	13.52	33.58	25.21	.196	4.45

STATION 137.30 (Interpolated Values at Standard Depths)

CREST: 25°23'N 112°48'W; September 14, 1952; 0124 GCT; wire angle: 10°; sounding: 160 fms; depth of observation: 192 m; weather: partly cloudy; sea: slight; wind: 300°, force 4.

0	22.42	33.62	23.07	.000	5.12
10	22.34	33.62	23.10	.048	5.18
20	21.80	33.52	23.17	.095	5.31
30	19.65	33.51	23.74	.140	5.64
50	16.61	33.55	24.51	.216	5.92
75	13.40	33.67	25.30	.293	4.28
100	12.62	33.81	25.57	.357	2.91
150	12.26	34.53	26.19	.465	0.29
200	(11.76)	(34.63)	(26.37)	(.555)	(0.14)

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