UNIVERSITY OF CALIFORNIA · SCRIPPS INSTITUTION OF OCEANOGRAPHY

DATA REPORT

PHYSICAL AND CHEMICAL DATA
CCOFI CRUISE 5206
(MLR 38)
3-21 June 1952

SIO Reference 56-27
22 October 1956

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5206

(MLR 38)

Sponsored by

Marine Research Committee

SIO Reference 56-27

22 October 1956

Approved for distribution:

Roger Revelle

Roger Revelle, Director

CONTENTS

List of Figures ii

Introduction iii

Personnel iv

Tabulated Data 1

Distribution List 75

FIGURES

1. CCOFI Cruise 5206 (MLR 38). Station Positions

2. Horizontal Distribution of Dynamic Height Anomaly (0 over 500 d-bar)

3. Surface Current By (GEK) Geomognetic Electrokinetograph

4. Horizontal Distribution of Temperature at 10 meters

5. Horizontal Distribution of Salinity at 10 meters

6. Horizontal Distribution of Temperature at 200 meters

7. Horizontal Distribution of Salinity at 200 meters

INTRODUCTION

The data in this report were collected on the thirty-eighth full-scale cruise conducted in the Marine Life Research Program. The three ships participating were the M/V YELLOWFIN of the California Division of Fish and Game, and the M/V SPENCER F. BAIRD and M/V CREST of the Scripps Institution of Oceanography.

Data are presented in the form of values tabulated at standard depths, and on charts of horizontal distributions. Observed values and depths will be included in a final publication, Oceanic Observations Of The Pacific. The presentation of data in these Physical and Chemical Data 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 wire angle given first are for the shallow cast. Horizontal lines separate the casts.

Nansen bottle pretripping occurred on stations 53.55, 63.65, 67.55, 77.65, 83.60, 90.90, 97.32, 97.40, 97.60, 100.30, 100.40, 100.70, 110.40, 110.90, and 137.40; therefore, some of the depths of observations may be slightly in error at these stations.

PERSONNEL

SHIPS' CAPTAINS

COLBETH, C. W.	M/V SPENCER F. BAIRD
DAVIS, L. E.	M/V CREST
PETRICH, Paul D.	M/V YELLOWFIN

Personnel participating in collection of data.

M/V SPENCER F. BAIRD

ANAS, Ray E.	Fishery Aid, U.S. Fish and Wildlife Service
BERKEY, Max L., Jr.	Marine Technician
COOLIDGE, Richard N.	Marine Technician
FOCKE, Alfred B., Jr.	Laboratory Assistant Trainee
HOWELL, Robert W.	Marine Technician
O'CONNELL, Charles P.	Fishery Aid, U.S. Fish and Wildlife Service

M/V CREST

CASEY, Harold D.	Biologist Aid, U.S. Fish and Wildlife Service
DOERR, William A.	Marine Technician
HILL, Preston W.	Laboratory Assistant Trainee
KIRCHER, Robert J.	Marine Technician
WORRALL, Charles G.	Senior Marine Technician

M/V YELLOWFIN

EBERHARDT, Robert L.	Junior Marine Biologist California Division of Fish and Game
GOSSETT, David A.	Senior Marine Technician
PAYNE, Miles M.	Marine Technician
ROGERS, William F.	Marine Technician

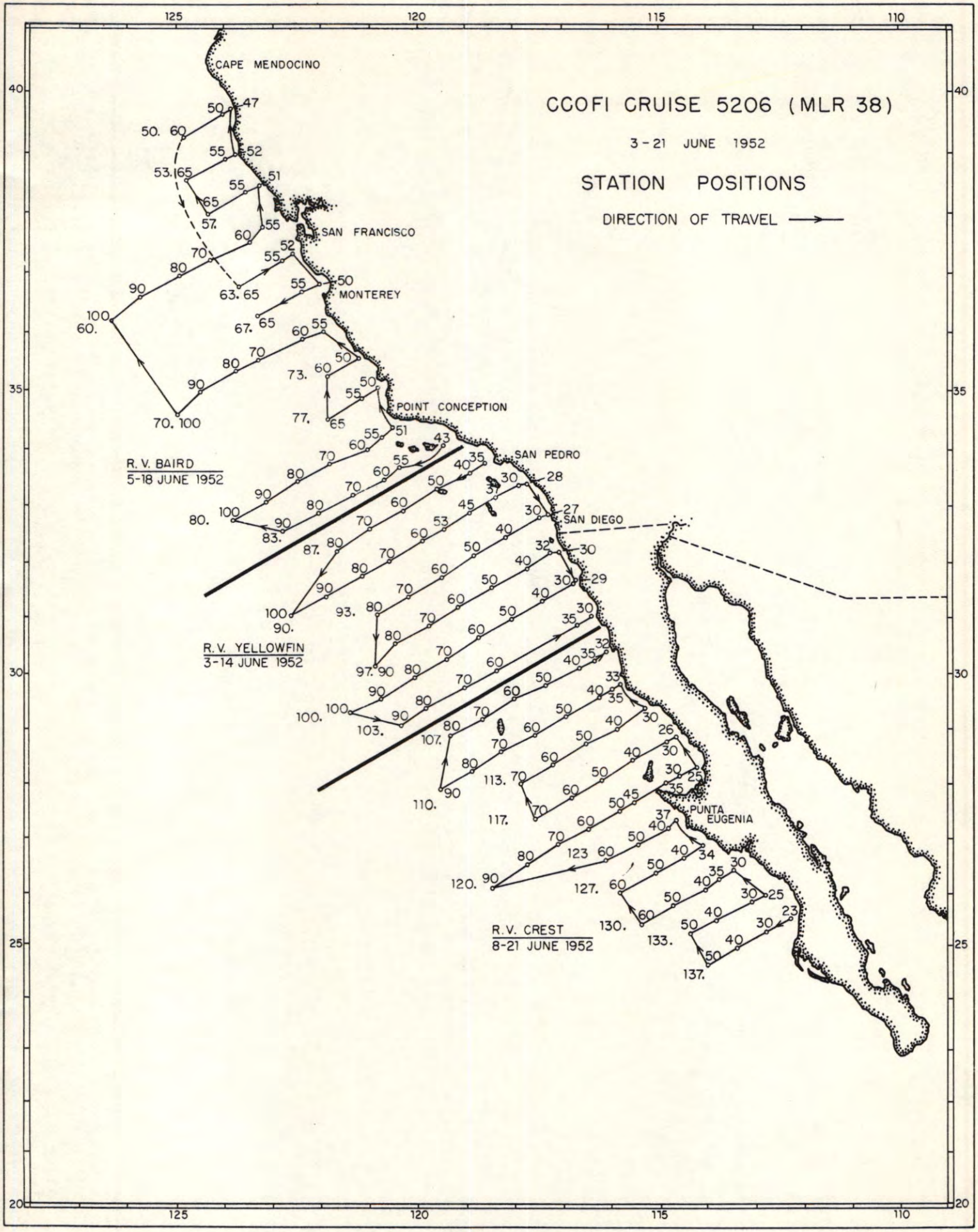
CCOFI CRUISE 5206 (MLR 38)
3 - 21 JUNE 1952
STATION POSITIONS
DIRECTION OF TRAVEL
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
R. V. BAIRD
5-18 JUNE 1952
R. V. YELLOWFIN
3-14 JUNE 1952
R. V. CREST
8-21 JUNE 1952

FIGURE 1

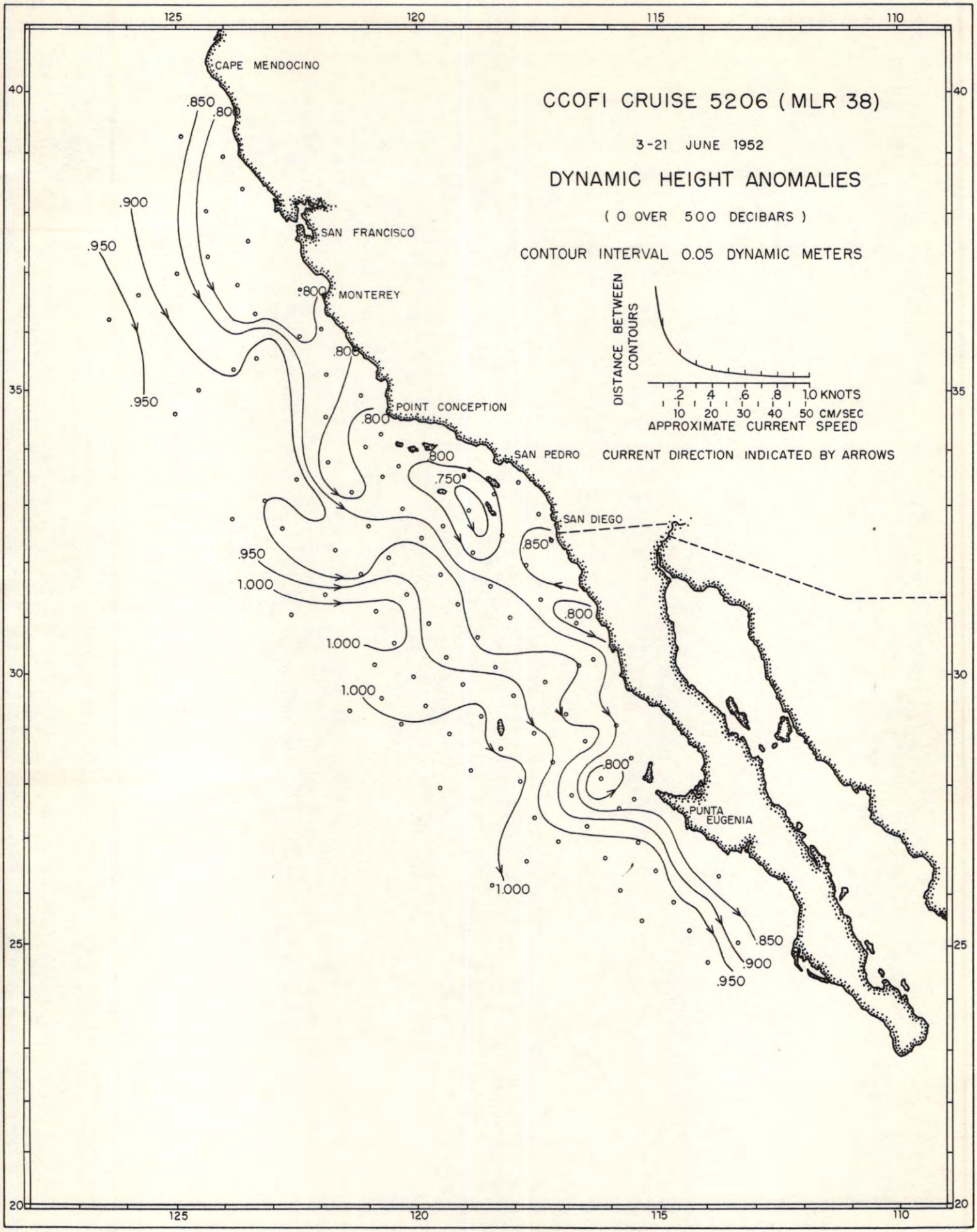
CCOFI CRUISE 5206 (MLR 38)
3-21 JUNE 1952
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.05 DYNAMIC METERS
DISTANCE BETWEEN CONTOURS
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
APPROXIMATE CURRENT SPEED
CURRENT DIRECTION INDICATED BY ARROWS
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
40
35
30
25
20
.850
.800
.900
.950
.800
.800
.950
.800
.750
.850
.950
1.000
.800
1.000
1.000
.800
1.000
.850
.900
.950

FIGURE 2

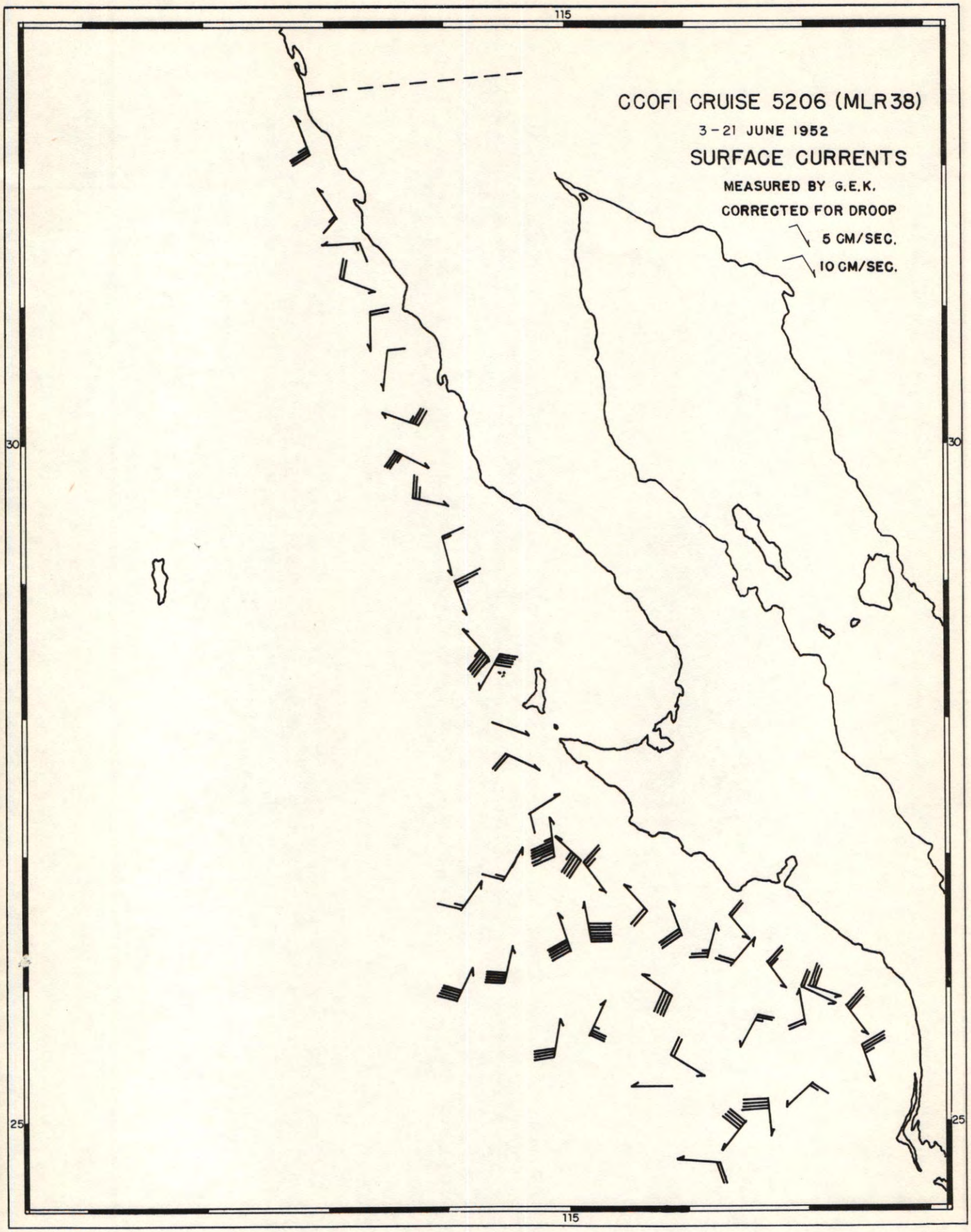
CCOFI CRUISE 5206 (MLR38)
3-21 JUNE 1952
SURFACE CURRENTS
MEASURED BY G.E.K.
CORRECTED FOR DROOP
5 CM/SEC.
10 CM/SEC.
115
30
25

FIGURE 3

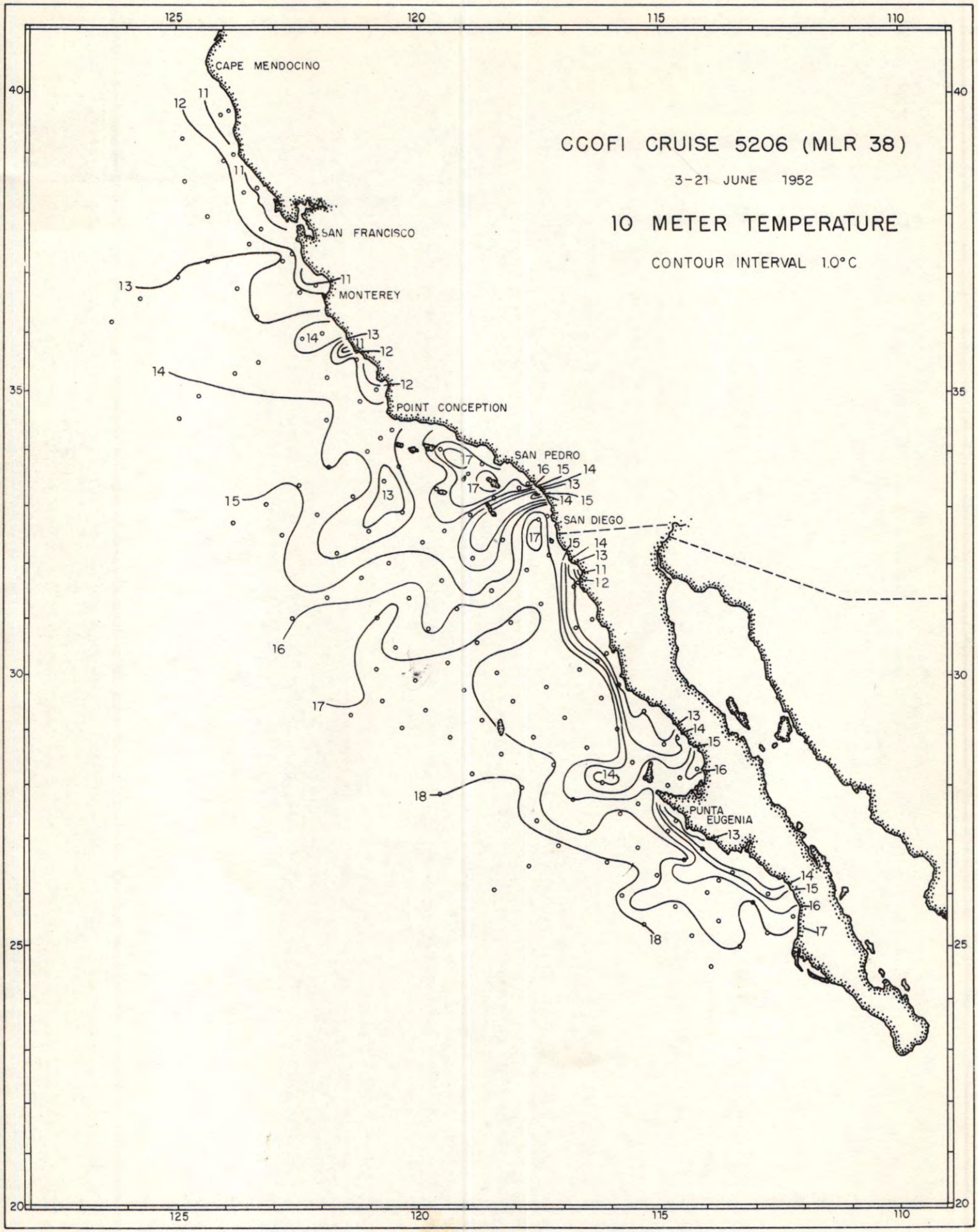
CCOFI CRUISE 5206 (MLR 38)
3-21 JUNE 1952
10 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
125
120
115
110
40
35
30
25
20

FIGURE 4

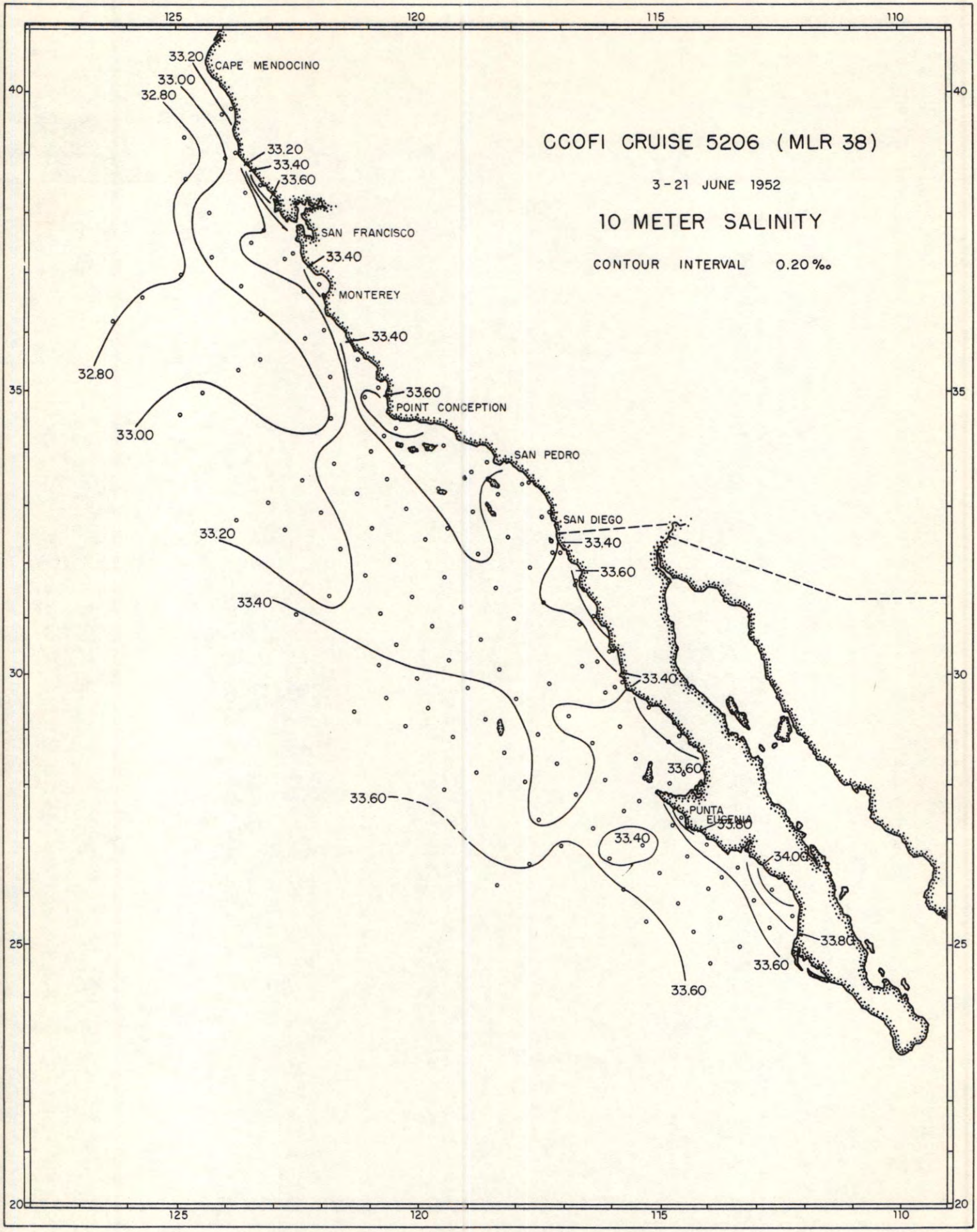
CCOFI CRUISE 5206 (MLR 38)
3-21 JUNE 1952
10 METER SALINITY
CONTOUR INTERVAL 0.20‰
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
33.20
33.00
32.80
33.40
33.60
33.80
34.00
125
120
115
110
40
35
30
25
20

FIGURE 5

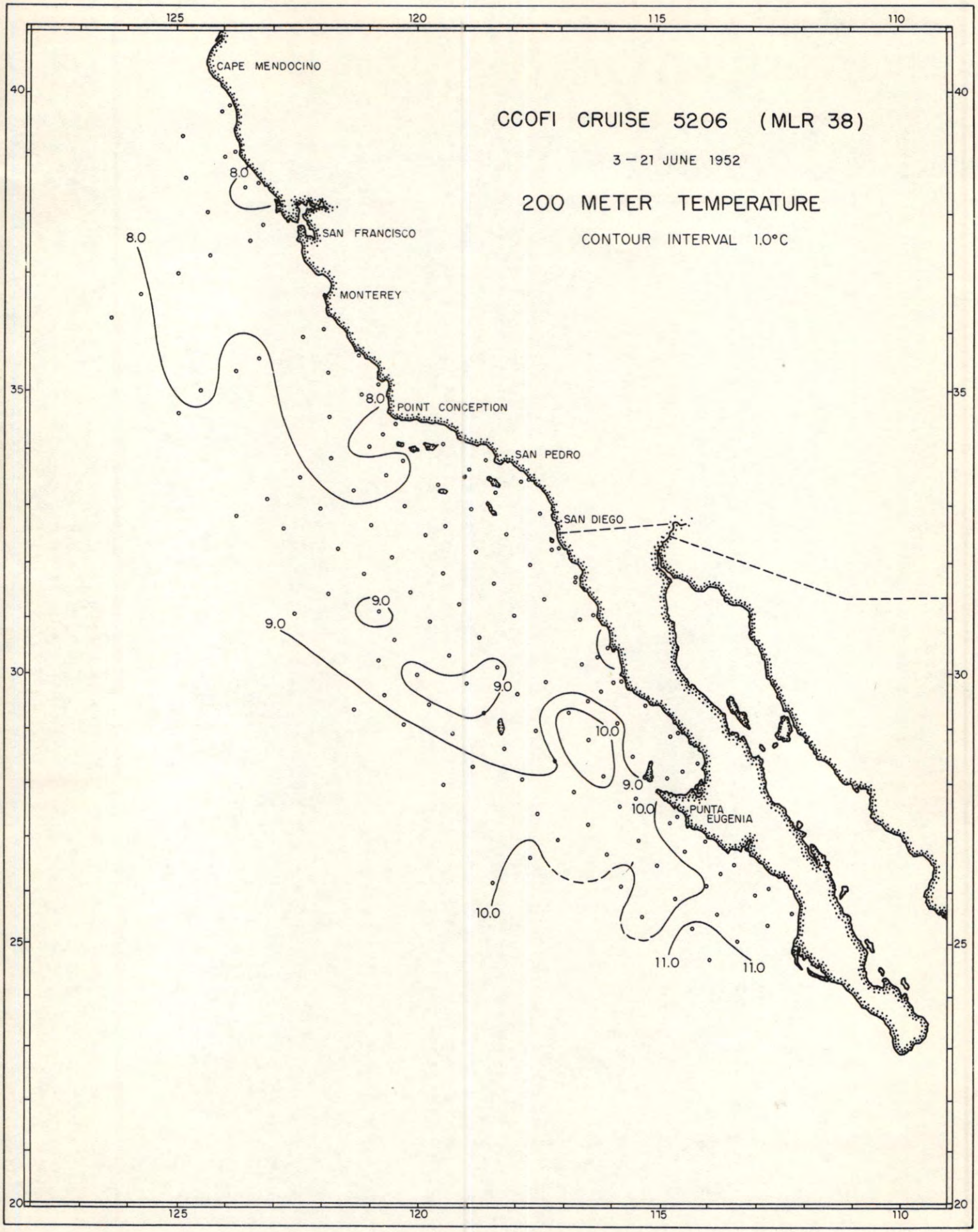
CCOFI CRUISE 5206 (MLR 38)
3 – 21 JUNE 1952
200 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
8.0
9.0
10.0
11.0
125
120
115
110
40
35
30
25
20

FIGURE 6

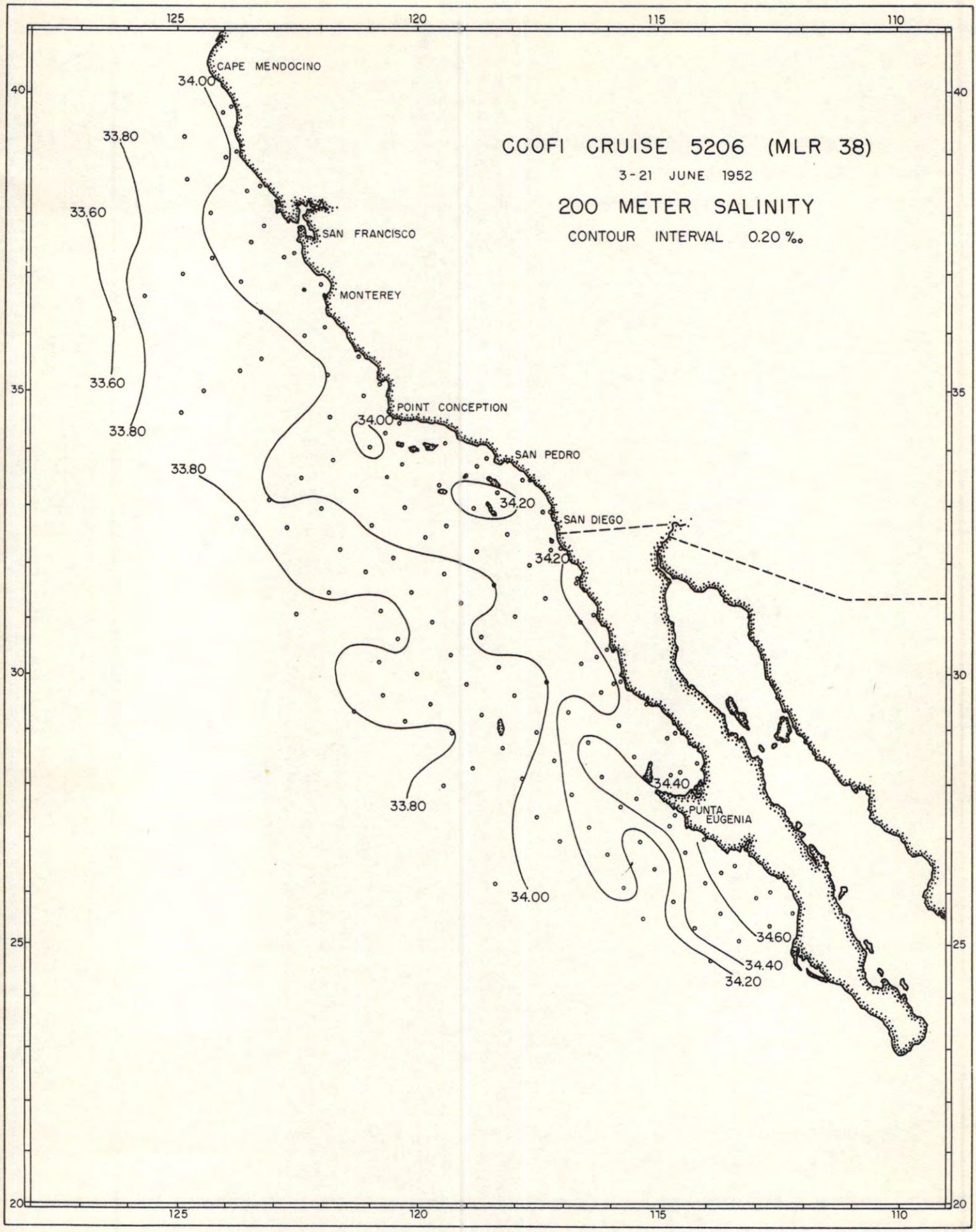
CCOFI CRUISE 5206 (MLR 38)
3-21 JUNE 1952
200 METER SALINITY
CONTOUR INTERVAL 0.20 ‰
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
34.00
33.80
33.60
34.20
34.40
34.60
125
120
115
110
40
35
30
25
20

FIGURE 7

STATION 50.47 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 39°45'N 123°56'W; June 16, 1952; 0509 GCT; wire angle: 32°; sounding: 71 fms; depth of observation: 70 m; weather: clear; sea: very rough; 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	9.95	33.19	25.57	242.5	.000	6.12
10	9.95	33.19	25.57	242.7	.024	5.95
20	9.80	33.24	25.63	236.8	.048	5.83
30	8.80	33.38	25.90	211.3	.071	5.10
50	8.49	33.65	26.16	187.1	.110	3.90
75	(8.03)	(33.93)	(26.45)	(160.1)	(.154)	(2.85)

STATION 50.50 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 39°40.5'N 124°09'W; June 16, 1952; 0715 GCT; wire angle: 45°; sounding: 500 fms; depth of observation: 446 m; weather: clear; sea: very rough; wind: 320°, force 6.

0	10.18	33.24	25.57	242.5	.000	5.98
10	10.18	33.22	25.55	244.2	.024	5.97
20	9.90	33.22	25.60	240.0	.049	6.10
30	9.21	33.23	25.72	228.6	.072	6.10
50	8.40	33.59	26.13	190.2	.114	4.60
75	8.03	33.73	26.29	174.9	.159	3.73
100	7.98	33.91	26.44	161.3	.202	3.00
150	7.75	34.05	26.59	148.4	.279	2.20
200	7.11	34.07	26.69	138.9	.351	1.85
250	6.74	34.11	26.77	131.7	.418	1.29
300	6.37	34.13	26.84	126.0	.483	0.99
400	5.80	34.17	26.94	117.1	.604	0.75

STATION 50.60 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 39°17'N 124°58'W; June 16, 1952; 1308 GCT; wire angle: 34°; sounding: 1600 fms; depth of observation: 1176 m; weather: partly cloudy; sea: high; wind: 320°, force 7..

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\ \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.78	32.74	24.71	324.5	.000	6.33
10	12.76	32.70	24.68	327.3	.033	6.29
20	12.76	32.74	24.71	324.6	.065	6.31
30	12.76	32.73	24.70	325.5	.098	6.40
50	12.11	32.68	24.79	317.8	.162	6.60
75	9.96	32.74	25.22	277.4	.236	6.50
100	8.57	33.09	25.71	230.7	.300	5.41
150	7.89	33.74	26.32	173.4	.401	3.83
200	7.15	33.87	26.53	154.3	.483	3.50
250	6.77	33.92	26.62	146.2	.558	3.20
300	6.33	33.98	26.73	136.7	.629	2.50
400	5.69	34.04	26.85	125.3	.760	1.64
500	5.19	34.15	27.00	112.2	.878	0.94
600	4.64	34.22	27.12	101.4	.985	0.72
700	4.22	34.31	27.24	90.8	1.081	0.60
800	3.94	34.36	27.31	84.7	1.169	0.53
1000	3.48	34.44	27.42	75.1	1.329	0.50

STATION 53.52 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 39°02'N 123°51.1'W; June 16, 1952; 0010 GCT; wire angle: 18°; sounding: 72 fms; depth of observation: 72 m; weather: clear; sea: very rough; wind: 340°, force 5.

0	10.56	33.10	25.40	259.0	.000	5.91
10	10.52	33.10	25.40	258.6	.026	6.03
20	9.50	33.24	25.68	232.1	.050	5.50
30	8.71	33.52	26.03	199.6	.072	4.22
50	8.42	33.67	26.19	184.6	.110	3.80
75	(8.09)	(33.93)	(26.44)	(160.9)	(.154)	(2.65)

STATION 53.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 38°56'N 124°04'W; June 15, 1952; 2136 GCT; wire angle: 25°; sounding: 1060 fms; depth of observation: 663 m; weather: partly cloudy; sea: very high; wind: 320°, force 7.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\ \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.30	32.95	24.96	300.2	.000	6.39
10	12.28	32.95	24.97	300.1	.030	6.35
20	12.21	32.94	24.97	300.0	.060	6.40
30	11.44	32.97	25.14	284.2	.089	6.58
50	9.18	33.22	25.72	229.3	.141	5.60
75	8.55	33.38	25.94	208.4	.195	5.00
100	8.36	33.67	26.20	184.5	.244	3.65
150	7.89	33.89	26.44	162.3	.331	2.95
200	7.37	33.99	26.59	148.4	.409	2.47
250	6.89	34.01	26.68	141.1	.481	2.07
300	6.48	34.03	26.75	134.9	.550	1.60
400	5.72	34.10	26.90	121.3	.678	1.05
500	5.15	34.18	27.03	109.5	.794	0.64

STATION 57.51 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 38°30'N 123°22'W; June 15, 1952; 0045 GCT; wire angle: 28°; sounding: 56 fms; depth of observation: 66 m; weather: clear; sea: high; wind: 310°, force 6.

0	10.74	33.87	25.96	205.1	.000	5.70
10	10.59	33.66	25.83	218.4	.021	5.65
20	9.68	33.53	25.88	213.5	.043	5.00
30	8.97	33.56	26.02	200.5	.063	4.50
50	8.55	33.70	26.19	184.2	.102	3.75

STATION 57.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 38°22'N 123°40'W; June 15, 1952; 0319 GCT; wire angle: 34°; sounding: 600 fms; depth of observation: 593 m; weather: artly cloudy; sea: high; wind: 320°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\ \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	11.66	33.03	25.14	282.9	.000	6.29
10	11.59	33.03	25.16	281.9	.028	6.20
20	11.32	33.06	25.23	275.2	.056	6.19
30	9.97	33.10	25.50	250.1	.082	6.11
50	9.28	33.26	25.73	227.8	.130	5.20
75	8.64	33.57	26.08	195.6	.183	3.70
100	8.64	33.71	26.19	185.7	.231	3.15
150	8.07	33.97	26.48	158.9	.317	2.33
200	8.04	34.04	26.54	154.2	.395	1.92
250	7.59	34.05	26.61	147.8	.471	1.87
300	6.98	34.12	26.75	134.9	.541	1.56
400	6.09	34.19	26.92	119.3	.668	0.84
500	5.47	34.21	27.02	111.2	.784	0.43
600	(5.09)	(34.27)	(27.11)	(103.1)	(.891)	(0.37)

STATION 57.65 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 38°02' 124°25'W; June 15, 1952; 0903, 0937 GCT; wire angle 45°, 53°; sounding: 2121 fms; depth of observation: 115, 496 m; weather: clear; sea: very rough; wind: 320°, force 6.

0	12.01	33.01	25.06	290.6	.000	6.33
10	12.00	33.03	25.08	289.2	.029	6.41
20	11.90	33.03	25.10	287.6	.058	6.25
30	9.72	33.01	25.47	252.8	.085	6.05
50	8.80	33.13	25.71	230.2	.133	5.26
75	8.68	33.39	25.93	209.6	.188	4.70
100	8.12	33.52	26.12	192.2	.238	4.15
150	7.77	33.95	26.50	156.2	.325	2.42
200	7.40	34.03	26.62	145.8	.401	2.07
250	7.07	34.08	26.71	138.4	.472	1.69
300	6.71	34.11	26.78	132.0	.540	1.30
400	5.79	34.17	26.95	116.9	.664	0.82
500	(5.32)	(34.23)	(27.05)	(107.8)	(.776)	(0.75)

STATION 60.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°49'N 123°20'W; June 13, 1952; 1108 GCT; wire angle: 12°; sounding: 74 fms; depth of observation: 73 m; weather: partly cloudy; sea: moderate; wind: 320°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\,\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.88	31.38	23.64	426.4	.000	8.73
10	11.06	33.19	25.38	261.0	.034	7.05
20	10.06	33.46	25.76	224.7	.059	5.06
30	9.40	33.57	25.96	206.3	.080	2.85
50	8.74	33.71	26.17	186.3	.119	2.82
75	(8.55)	(33.87)	(26.33)	(172.1)	(.164)	(0.67)

STATION 60.60 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°34'N 123°33'W; June 13, 1952; 0719 GCT; wire angle: 18°; sounding: 1875 fms; depth of observation: 1130 m; weather: clear; sea: moderate; wind: 320°, force 2.

0	12.45	33.26	25.17	280.1	.000	6.68
10	12.40	33.26	25.18	279.4	.028	6.62
20	12.20	33.27	25.23	275.3	.056	6.35
30	11.10	33.34	25.49	251.0	.082	5.80
50	9.39	33.60	25.98	204.3	.128	3.80
75	8.82	33.77	26.20	183.5	.176	2.64
100	8.51	33.87	26.33	171.9	.220	2.48
150	7.90	33.97	26.50	156.5	.303	2.29
200	7.48	34.07	26.64	144.0	.378	2.12
250	7.17	34.12	26.72	136.8	.448	1.65
300	6.84	34.15	26.79	130.8	.515	1.23
400	6.09	34.21	26.94	117.8	.639	0.75
500	5.42	34.26	27.06	106.8	.751	0.45
600	5.03	34.34	27.17	97.2	.853	0.34
700	4.76	34.39	27.24	91.3	.948	0.39
800	4.49	34.42	27.29	86.8	1.037	0.50
1000	3.81	34.46	27.40	77.5	1.201	0.72

STATION 60.70 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°19'N 124°22'W; June 13, 1952; 0230 GCT; wire angle: 17°; sounding: 2240 fms; depth of observation: 582 m; weather: clear; sea: moderate; wind: 320°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\,\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.51	32.97	24.74	321.3	.000	6.29
10	12.19	33.13	25.12	285.2	.030	6.49
20	11.18	33.22	25.38	261.0	.058	6.41
30	10.52	33.15	25.44	255.3	.083	5.90
50	9.69	33.26	25.67	234.2	.132	5.50
75	8.92	33.50	25.98	205.0	.187	4.67
100	8.66	33.62	26.11	192.7	.237	4.00
150	7.56	33.87	26.47	159.2	.325	3.88
200	7.13	33.95	26.60	148.1	.402	3.01
250	6.66	33.96	26.67	141.8	.474	2.48
300	6.23	33.99	26.75	134.6	.543	2.00
400	5.68	34.02	26.84	126.7	.674	1.02
500	5.21	34.20	27.04	108.7	.792	0.67
600	(4.78)	(34.22)	(27.10)	(103.1)	(.898)	

STATION 60.80 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°01'N 125°03'W; June 12, 1952; 2213 GCT; wire angle: 16°; sounding: 2285 fms; depth of observation: 1153 m; weather: partly cloudy; sea: moderate; wind: 320°, force 1.

0	13.89	32.77	24.51	343.4	.000	6.15
10	12.58	32.77	24.77	318.8	.033	6.25
20	11.71	32.77	24.93	303.4	.064	6.31
30	11.31	32.77	25.01	296.7	.094	6.30
50	10.72	32.75	25.10	288.6	.153	6.08
75	10.00	33.00	25.41	258.8	.221	5.88
100	9.30	33.15	25.64	237.2	.283	5.35
150	8.06	33.64	26.22	183.3	.388	4.32
200	7.62	33.82	26.42	164.5	.475	3.56
250	6.97	33.91	26.59	149.6	.554	2.88
300	6.31	33.92	26.68	140.9	.626	2.42
400	5.56	34.04	26.87	123.7	.759	1.21
500	5.09	34.15	27.01	111.0	.876	0.68
600	4.66	34.23	27.13	100.9	.982	0.46
700	4.35	34.29	27.21	93.8	1.079	0.35
800	4.10	34.35	27.28	87.3	1.170	0.38
1000	3.51	34.46	27.43	74.0	1.331	0.58

STATION 60.90 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°38'N 125°50'W; June 12, 1952; 1719, 1734 GCT; wire angle: 14°, missing; sounding: 2410 fms; depth of observation: 68, 620; weather: cloudy; sea: moderate; wind: 320°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\ \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.64	32.79	24.58	337.1	.000	6.20
10	13.56	32.80	24.60	335.0	.034	6.03
20	13.56	32.79	24.59	336.0	.067	6.13
30	13.51	32.80	24.61	334.6	.101	6.06
50	12.46	32.88	24.88	309.4	.165	6.36
75	10.85	32.88	25.17	281.7	.239	6.15
100	9.43	33.14	25.62	239.9	.304	5.08
150	8.98	33.73	26.15	190.3	.412	3.25
200	8.40	33.94	26.40	166.9	.501	2.52
250	7.60	34.01	26.58	150.9	.580	2.50
300	7.00	34.07	26.71	139.0	.653	2.09
400	6.11	34.07	26.83	128.5	.787	1.30
500	5.46	34.17	26.99	114.0	.908	0.73
600	4.88	34.20	27.08	105.8	1.018	0.51

STATION 60.100 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°15'N 126°25'W; June 12, 1952; 1300 GCT; wire angle: 20°; sounding: 2000+ fms; depth of observation: 1196 m; weather: partly cloudy; sea: moderate; wind: 320°, force 3.

0	13.48	32.79	24.61	334.0	.000	6.30
10	13.47	32.79	24.61	334.0	.033	6.25
20	13.48	32.79	24.61	334.5	.067	6.37
30	13.47	32.79	24.61	334.5	.100	6.40
50	13.07	32.83	24.72	324.5	.166	6.37
75	12.44	32.83	24.84	313.3	.246	6.37
100	10.69	32.93	25.24	275.8	.320	5.64
150	8.94	33.03	25.61	241.5	.449	3.79
200	8.42	33.60	26.13	192.3	.557	2.60
250	7.84	33.88	26.44	164.0	.646	2.10
300	7.42	34.05	26.63	146.2	.724	1.72
400	6.65	34.13	26.80	131.1	.863	1.08
500	5.96	34.23	26.97	115.9	.986	0.73
600	5.40	34.27	27.07	107.0	1.098	0.65
700	4.99	34.32	27.16	99.3	1.201	0.59
800	4.62	34.38	27.25	91.3	1.296	0.53
1000	3.93	34.49	27.41	76.7	1.464	0.60

STATION 63.52 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°20'N 122°36'W; June 17, 1952; 1422 GCT; wire angle: 14°; sounding: 40 fms; depth of observation: 49 m; weather: partly cloudy; sea: moderate; wind: 320°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\ \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.19	31.87	24.15	377.8	.000	6.90
10	11.81	32.21	24.48	346.2	.036	6.56
20	10.12	33.30	25.63	237.5	.065	4.88
30	9.21	33.63	26.03	199.0	.087	4.00
50	(8.53)	(33.80)	(26.27)	(176.5)	(.125)	(2.10)

STATION 63.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 37°14'N 122°50'W; June 17, 1952; 1211 GCT; wire angle: 18°; sounding: 126 fms; depth of observation: 149 m; weather: partly cloudy; sea: rough; wind: 320°, force 3.

0	12.84	30.48	22.95	492.0	.000	7.30
10	11.51	32.39	24.68	327.7	.041	6.81
20	9.75	33.11	25.54	245.7	.070	6.00
30	9.09	33.42	25.89	212.7	.093	4.08
50	8.78	33.64	26.11	192.1	.133	3.39
75	8.83	33.85	26.27	177.7	.179	2.75
100	8.43	33.92	26.38	167.0	.222	2.21
150	(8.06)	(34.00)	(26.50)	(156.6)	(.303)	(1.90)

STATION 63.65 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°50'N 123°48'W; June 17, 1952; 0458 GCT; wire angle: 33°; sounding: 2000 fms; depth of observation: 475 m; weather: partly cloudy; sea: high; wind: 320°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.39	33.04	24.82	313.9	.000	6.41
10	13.38	33.04	24.82	314.0	.031	6.29
20	13.38	33.03	24.81	314.9	.063	6.30
30	12.88	33.18	25.03	294.7	.093	5.95
50	9.48	33.75	26.08	194.6	.142	3.63
75	8.65	33.83	26.28	176.5	.189	2.80
100	8.48	33.96	26.41	164.8	.231	2.12
150	7.99	34.03	26.54	153.3	.311	1.99
200	7.64	34.09	26.63	144.7	.385	1.80
250	7.34	34.16	26.73	136.1	.456	1.24
300	6.89	34.18	26.81	129.2	.522	1.15
400	5.85	34.13	26.91	120.7	.647	0.94
500	(5.19)	(34.24)	(27.07)	(105.5)	(.760)	

STATION 67.50 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°49'N 122°05'W; June 17, 1952; 1844, 1859 GCT; wire angle: 11°, 11°; sounding: 45 fms; depth of observation: 10, 73 m; weather: overcast; sea: slight; wind: 220°, force 1.

0	11.16	33.53	25.62	237.4	.000	6.06
10	10.36	33.55	25.78	222.7	.023	5.25
20	9.60	33.55	25.91	210.7	.045	4.35
30	9.22	33.58	25.99	202.8	.065	3.80
50	8.98	33.69	26.12	191.4	.105	3.25
75	(8.53)	(33.96)	(26.40)	(165.1)	(.149)	(2.34)

STATION 67.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°39'N 122°26'W; June 17, 1952; 2133 GCT; wire angle: 17°; sounding: 1132 fms; depth of observation: 520 m; weather: overcast; sea: very rough; wind 270°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.40	33.17	25.11	285.8	.000	6.55
10	11.98	33.19	25.21	277.0	.028	6.55
20	10.00	33.19	25.56	243.7	.054	5.80
30	9.21	33.20	25.70	230.8	.078	5.50
50	9.33	33.69	26.06	196.7	.121	4.00
75	8.68	33.89	26.32	172.5	.167	2.65
100	8.58	33.94	26.38	167.8	.209	2.42
150	8.27	34.01	26.48	158.9	.291	2.05
200	7.91	34.07	26.58	150.1	.368	1.65
250	7.62	34.11	26.65	143.8	.442	1.47
300	7.30	34.16	26.74	136.4	.512	1.33
400	6.54	34.21	26.88	123.7	.642	0.96
500	5.79	34.26	27.02	111.5	.759	0.70

STATION 67.65 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 36°19'N 123°09'W; June 18, 1952; 0250 GCT; wire angle: 17°; sounding: 1771 fms; depth of observation: 594 m; weather: overcast; sea: rough; wind: 270°, force 3.

0	12.79	33.03	24.93	303.3	.000	6.36
10	12.60	32.99	24.94	303.0	.030	6.43
20	12.40	33.04	25.01	295.9	.060	6.51
30	9.99	33.09	25.48	251.1	.088	6.12
50	10.19	33.49	25.76	225.2	.135	5.00
75	8.79	33.60	26.08	195.7	.188	4.15
100	8.38	33.71	26.23	181.9	.235	3.32
150	7.73	33.91	26.48	158.6	.320	2.83
200	7.12	34.01	26.64	143.5	.396	2.60
250	6.89	34.04	26.70	138.9	.466	1.86
300	6.31	34.05	26.78	131.2	.534	1.84
400	5.57	34.11	26.92	118.7	.659	1.02
500	5.26	34.19	27.03	110.1	.773	0.62
600	(4.92)	(34.27)	(27.13)	(101.1)	(.879)	(0.32)

STATION 57.55 (Interpolated Values at Standard Depths)

CREST: 38°22'N 123°40'W; July 11, 1952; 1941 GCT; wire angle: 3°; sounding: 450 fms; depth of observation: 588 m; weather: overcast; sea: smooth; wind: 230°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.28	33.49	25.38	260.1	.000	6.96
10	10.27	33.55	25.80	221.2	.024	6.19
20	9.98	33.55	25.84	216.7	.046	5.77
30	9.35	33.58	25.97	204.8	.067	5.12
50	8.70	33.64	26.12	190.9	.107	3.89
75	8.60	33.80	26.26	178.0	.153	3.05
100	8.31	33.96	26.43	162.3	.195	2.53
150	7.97	34.04	26.55	152.3	.274	1.84
200	7.71	34.11	26.64	144.2	.348	1.59
250	7.43	34.11	26.68	141.1	.419	1.50
300	7.12	34.11	26.72	137.6	.489	1.32
400	6.42	34.17	26.86	125.1	.620	0.97
500	6.01	34.19	26.93	119.6	.743	0.62
600	(5.04)	(34.29)	(27.13)	(101.1)	(.853)	

STATION 57.65 (Interpolated Values at Standard Depths)

CREST: 38°02'N 124°24'W; July 12, 1952; 0139 GCT; wire angle: 0°; sounding: 2100 fms; depth of observation: 591 m; weather: overcast; sea: moderate; wind: 140°, force 2.

0	14.06	33.08	24.71	324.0	.000	6.42
10	11.94	33.24	25.26	272.6	.030	6.44
20	10.93	33.40	25.56	243.5	.056	6.42
30	9.76	33.45	25.80	220.8	.079	5.70
50	8.58	33.55	26.07	195.8	.121	4.26
75	8.16	33.67	26.23	181.2	.168	4.14
100	8.09	33.83	26.36	168.8	.211	3.20
150	7.29	33.89	26.53	153.9	.292	3.34
200	7.27	34.05	26.65	142.6	.366	1.82
250	6.94	34.09	26.73	135.8	.436	1.41
300	6.52	34.15	26.84	126.5	.501	1.03
400	5.68	34.20	26.98	113.3	.621	0.77
500	5.11	34.23	27.07	105.3	.731	0.48
600	(4.83)	(34.29)	(27.15)	(98.5)	(.833)	(0.42)

STATION 60.55 (Interpolated Values at Standard Depths)

CREST: 37°48'N 123°15'W; July 18, 1952; 0231 GCT; wire angle: 5°; sounding: 65 fms; depth of observation: 75 m; weather: overcast; sea: rough; 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	12.83	33.30	25.13	284.2	.000	6.70
10	11.70	33.40	25.42	256.6	.027	6.58
20	10.48	33.39	25.63	236.7	.052	5.67
30	10.21	33.37	25.67	234.0	.075	5.28
50	9.44	33.56	25.94	208.1	.119	4.94
75	8.99	33.73	26.15	189.0	.169	3.03

STATION 60.60 (Interpolated Values at Standard Depths)

CREST: 37°37'N 123°37'W; July 18, 1952; 1118 GCT; wire angle: 18°; sounding: 1600 fms; depth of observation: 1116 m; weather: overcast; sea: moderate; wind: 15°, force 3.

0	13.90	33.06	24.73	322.3	.000	6.26
10	12.85	33.10	24.97	299.5	.031	5.93
20	11.64	33.16	25.25	273.4	.060	6.32
30	10.83	33.25	25.46	253.1	.086	6.49
50	9.63	33.43	25.81	220.7	.133	5.44
75	9.25	33.63	26.03	200.4	.186	4.28
100	8.53	33.75	26.23	181.1	.234	2.12
150	8.26	33.94	26.42	163.9	.320	0.97
200	8.12	33.97	26.47	160.5	.401	1.42
250	7.85	34.03	26.56	153.0	.480	1.61
300	7.58	34.09	26.64	145.5	.554	1.58
400	6.36	34.15	26.86	125.8	.690	1.13
500	5.64	34.17	26.96	116.3	.811	0.69
600	5.09	34.22	27.07	106.9	.922	0.39
700	4.72	34.31	27.18	96.7	1.024	0.30
800	4.41	34.37	27.26	89.5	1.117	0.31
1000	3.89	34.44	27.37	79.9	1.287	0.51

STATION 70.90 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 35°00'N 124°34'W; June 11, 1952; 2030 GCT; wire angle: 24°; sounding: 2250 fms; depth of observation: 1180 m; weather: rain showers; sea: rough; 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	14.71	33.03	24.54	340.7	.000	5.85
10	14.69	33.08	24.58	336.9	.034	5.92
20	14.62	33.04	24.56	338.7	.068	5.88
30	14.55	33.03	24.57	338.2	.102	5.88
50	14.12	33.04	24.67	329.4	.168	6.00
75	11.60	32.94	25.09	290.2	.246	6.15
100	9.46	33.10	25.58	243.4	.312	5.15
150	8.77	33.70	26.16	189.3	.421	3.24
200	7.87	33.91	26.46	161.4	.508	3.12
250	7.33	33.98	26.59	149.4	.586	3.03
300	6.88	34.03	26.69	140.2	.658	2.28
400	6.16	34.13	26.87	124.7	.791	1.22
500	5.57	34.21	27.00	112.4	.909	0.64
600	5.13	34.32	27.14	99.9	1.015	0.38
700	4.75	34.35	27.21	94.1	1.112	0.40
800	4.39	34.39	27.28	87.8	1.203	0.41
1000	3.74	34.47	27.41	75.9	1.367	0.51

STATION 70.100 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 34°37'N 125°05'W; June 12, 1952; 0101 GCT; wire angle: 30°; sounding: 2000+ fms; depth of observation: 563 m; weather: partly cloudy; sea: moderate; wind: 320°, force 3.

0	14.86	33.00	24.48	345.9	.000	5.85
10	14.81	33.01	24.50	344.5	.035	5.91
20	14.69	33.03	24.54	340.8	.069	5.88
30	14.63	33.03	24.55	339.9	.103	5.90
50	14.55	33.03	24.57	338.8	.171	5.98
75	12.52	32.95	24.92	306.0	.251	6.21
100	10.60	32.96	25.28	272.1	.324	5.72
150	8.92	33.46	25.95	209.3	.444	4.16
200	8.08	33.87	26.40	167.3	.538	3.27
250	7.51	33.96	26.55	153.4	.618	2.63
300	6.82	34.00	26.68	141.7	.692	2.08
400	5.92	34.11	26.88	123.1	.824	1.24
500	5.37	34.16	26.99	113.6	.943	0.63

STATION 73.50 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 35°37'N 121°17'W; June 10, 1952; 1932 GCT; wire angle: 4°; sounding: 55 fms; depth of observation: 51 m; weather: partly cloudy; sea: moderate; wind: 320°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.41	33.44	25.32	266.1	.000	5.53
10	10.93	33.57	24.42	230.7	.029	4.60
20	10.06	33.64	25.70	211.4	.047	4.06
30	9.65	33.60	25.95	206.9	.068	3.63
50	9.18	33.77	26.15	188.5	.107	2.97

STATION 73.60 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 35°18'N 121°58'W; June 10, 1952; 1410 GCT; wire angle: 15°; sounding: 1350 fms; depth of observation: 578 m; weather: partly cloudy; sea: moderate; wind: 320°, force 3.

0	14.06	32.94	24.61	334.3	.000	6.05
10	13.84	33.01	24.70	325.1	.033	6.11
20	12.55	33.01	24.96	300.8	.064	6.50
30	11.93	32.93	25.02	295.7	.094	6.20
50	10.01	33.04	25.44	255.5	.149	4.36
75	9.15	33.51	25.95	207.8	.207	3.91
100	8.96	33.76	26.18	186.8	.256	3.48
150	8.29	33.88	26.37	168.8	.345	2.48
200	7.74	34.00	26.55	152.8	.426	2.40
250	7.39	34.15	26.72	137.6	.498	1.72
300	6.90	34.16	26.79	130.9	.565	1.40
400	6.07	34.17	26.91	120.5	.691	1.00
500	5.54	34.24	27.03	109.8	.806	0.49

STATION 63.52 (Interpolated Values at Standard Depths)

CREST: 37°19'N 122°36'W; July 19, 1952; 2210 GCT; wire angle: 2°; sounding: 40 fms; depth of observation: 50 m; weather: cloudy; sea: smooth; wind: 360°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.78	33.19	24.86	310.4	.000	7.11
10	12.55	33.24	25.14	283.7	.030	6.25
20	10.35	33.38	25.65	235.3	.056	4.89
30	9.80	33.45	25.80	221.5	.078	4.34
50	9.19	33.78	26.15	187.9	.119	3.06

STATION 63.55 (Interpolated Values at Standard Depths)

CREST: 37°14'N 122°50'W; July 20, 1952; 0005 GCT; wire angle: 12°; sounding: 138 fms; depth of observation: 195 m; weather: overcast; sea: moderate; wind: 210°, force 1.

0	12.75	33.26	25.12	285.7	.000	4.95
10	11.45	33.28	25.38	261.0	.027	4.12
20	10.85	33.34	25.53	246.6	.053	4.07
30	10.30	33.43	25.70	231.0	.077	3.75
50	9.07	33.63	26.06	197.2	.119	2.92
75	9.17	33.87	26.23	181.4	.167	2.65
100	8.96	33.95	26.32	172.7	.211	2.24
150	8.70	33.98	26.39	167.5	.296	1.95
200	(8.42)	(34.02)	(26.46)	(161.2)	(.378)	(1.69)

STATION 63.65 (Interpolated Values at Standard Depths)

CREST: 36°53'N 123°32'W; July 20, 1952; 0537 GCT; wire angle: 15°; sounding: 1800 fms; depth of observation: 567 m; weather: overcast; sea:moderate; wind: 200°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.60	32.83	24.41	353.1	.000	5.40
10	14.40	32.77	24.40	353.7	.035	5.63
20	13.27	32.88	24.72	323.9	.069	5.76
30	11.50	32.81	25.00	297.0	.100	5.80
50	11.09	32.89	25.14	284.5	.158	5.62
75	9.16	33.03	25.57	243.5	.224	5.09
100	8.52	33.31	25.89	213.6	.282	4.50
150	7.93	33.81	26.37	168.8	.377	3.25
200	7.64	33.97	26.54	153.6	.458	2.42
250	7.22	34.05	26.66	142.6	.532	1.99
300	6.91	34.11	26.75	134.7	.601	1.50
400	6.18	34.19	26.91	120.5	.729	0.81
500	5.40	34.21	27.02	110.3	.844	0.54

STATION 67.50 (Interpolated Values at Standard Depths)

CREST: 36°48'N 121°56'W; July 20, 1952; 1928 GCT; wire angle: 0°; sounding: 55 fms; depth of observation: 75 m; weather: overcast; sea:moderate; wind: 150°, force 3.

0	14.85	33.53	24.89	306.9	.000	5.38
10	14.82	33.52	24.89	307.3	.031	5.20
20	11.30	33.57	25.63	237.3	.058	4.70
30	9.92	33.55	25.85	216.0	.081	3.70
50	9.32	33.71	26.08	195.1	.122	2.95
75	9.07	33.84	26.22	182.1	.169	2.44

STATION 80.55 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 34°17'N 120°46'W; June 9, 1952; 1855 GCT; wire angle: 12°; sounding: 320 fms; depth of observation: 545 m; weather: partly cloudy; sea: moderate;wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.50	-	-	-	-	-
10	13.00	-	-	-	-	-
20	11.33	33.70	25.72	228.2	-	4.95
30	10.67	33.71	25.85	216.4	-	4.24
50	9.72	33.79	26.08	195.4	-	3.20
75	9.42	33.84	26.16	187.5	-	2.87
100	9.15	33.93	26.28	177.1	-	2.45
150	8.86	34.02	26.39	167.0	-	2.15
200	8.60	34.09	26.49	159.0	-	1.75
250	8.34	34.13	26.56	152.8	-	1.55
300	7.83	34.17	26.67	143.3	-	-
400	6.69	34.22	26.87	125.0	-	-
500	(6.11)	34.26	(26.98)	(115.8)	-	-

STATION 80.60 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 34°03'N 121°08'W; June 9, 1952; 1600 GCT; wire angle: 8°; sounding: 780 fms; depth of observation: 598 m; weather: partly cloudy; sea: moderate; wind: 180°, force 2.

0	14.28	33.22	24.77	318.1	.000	6.05
10	13.08	33.24	25.04	293.6	.031	6.32
20	12.71	33.26	25.12	285.4	.060	6.41
30	12.39	33.30	25.22	276.8	.088	6.41
50	11.42	33.37	25.45	254.8	.141	5.65
75	9.86	33.48	25.81	221.1	.200	4.45
100	9.50	33.42	25.82	220.3	.255	3.05
150	8.59	33.77	26.24	181.4	.356	2.38
200	8.21	33.97	26.46	161.8	.442	1.94
250	7.58	34.10	26.65	144.0	.518	1.82
300	7.11	34.14	26.75	135.2	.588	1.40
400	6.23	34.16	26.88	123.3	.717	0.97
500	5.84	34.28	27.03	110.7	.834	0.50
600	(5.24)	(34.31)	(27.12)	(102.0)	(.941)	(0.48)

STATION 80.70 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 33°49'N 121°51'W; June 9, 1952; 1052 GCT; wire angle: 8°; sounding: 2080 fms; depth of observation: 594 m; weather: cloudy; sea: moderate; wind: 180°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.78	33.46	25.06	290.6	.000	6.21
10	13.05	33.39	25.16	282.0	.029	6.30
20	12.07	33.42	25.37	261.9	.056	6.19
30	11.59	33.53	25.55	245.5	.081	5.13
50	9.57	33.62	25.97	205.6	.126	3.72
75	9.29	33.81	26.16	187.7	.175	2.93
100	9.04	33.90	26.27	177.7	.221	2.55
150	8.35	34.02	26.47	159.3	.305	2.32
200	7.91	34.08	26.59	149.3	.383	1.86
250	7.07	34.04	26.67	141.3	.455	1.90
300	6.69	34.07	26.75	134.7	.524	1.42
400	5.97	34.15	26.91	120.7	.652	0.79
500	5.47	34.30	27.09	104.5	.765	0.49
600	(5.01)	(34.31)	(27.15)	(99.2)	(.866)	(0.39)

STATION 80.80 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 33°29'N 122°32'W; June 9, 1952; 0501, 0550 GCT; wire angle: 22°, 25°; sounding: 2480 fms; depth of observation: 745, 1135 m; weather: cloudy; sea: rough; wind: 140°, force 1.

0	14.85	33.12	24.58	337.0	.000	5.70
10	14.82	33.09	24.56	338.8	.034	5.81
20	14.50	33.12	24.65	330.4	.067	5.81
30	14.39	33.12	24.67	328.4	.100	5.82
50	14.16	33.10	24.71	325.8	.166	5.85
75	11.50	33.15	25.27	272.9	.240	5.65
100	10.29	33.29	25.59	242.6	.305	4.52
150	9.40	33.85	26.17	187.9	.413	2.72
200	8.93	34.01	26.38	169.7	.502	2.32
250	8.48	34.11	26.52	156.4	.583	1.85
300	8.03	34.17	26.64	146.1	.659	1.52
400	7.11	34.21	26.80	131.6	.798	1.00
500	6.10	34.24	26.96	117.0	.922	0.55
600	5.53	34.30	27.08	106.4	1.034	0.44
700	5.00	34.37	27.20	95.7	1.135	0.54
800	4.66	34.42	27.28	88.8	1.227	0.54
1000	4.02	34.47	27.38	79.2	1.395	0.60

STATION 70.70 (Interpolated Values at Standard Depths)

CREST: 35°33'N 123°05'W; July 21, 1952; 1053 GCT; wire angle: 17°; sounding: 2000+ fms; depth of observation: 1102 m; weather: overcast; 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	14.65	32.90	24.45	349.0	.000	5.40
10	14.55	32.97	24.53	342.1	.035	5.65
20	13.32	32.96	24.77	318.9	.068	5.64
30	12.83	32.95	24.86	310.7	.099	5.64
50	12.00	33.26	25.26	273.1	.157	5.55
75	10.30	33.45	25.71	230.4	.220	4.52
100	9.29	33.58	25.98	205.2	.275	3.71
150	8.49	33.88	26.34	171.8	.369	2.63
200	7.88	34.00	26.53	154.8	.451	2.28
250	7.37	34.03	26.62	146.2	.526	1.99
300	6.82	34.09	26.75	135.0	.596	1.55
400	6.19	34.17	26.89	122.1	.725	0.81
500	5.51	34.25	27.04	108.7	.840	0.49
600	5.07	34.28	27.12	102.2	.946	0.41
700	4.78	34.36	27.22	93.7	1.044	0.38
800	4.40	34.42	27.30	85.7	1.133	0.40
1000	3.70	34.43	27.39	78.3	1.297	

STATION 70.80 (Interpolated Values at Standard Depths)

CREST: 35°13'N 123°47'W; July 21, 1952; 1650 GCT; wire angle: 3°; sounding: 2350 fms; depth of observation: 589 m; weather: overcast; sea: moderate; wind: 330°, force 2.

0	15.14	32.99	24.41	352.4	.000	5.60
10	15.12	33.01	24.43	350.8	.035	5.54
20	15.10	32.84	24.31	363.1	.071	5.26
30	14.90	32.83	24.34	360.0	.107	5.18
50	13.15	32.86	24.73	323.8	.175	5.81
75	11.50	32.89	25.07	292.1	.252	5.54
100	10.23	32.92	25.31	268.9	.323	5.11
150	8.80	33.45	25.96	208.3	.442	3.78
200	8.03	33.85	26.39	168.1	.536	3.41
250	7.80	34.02	26.56	153.0	.616	2.14
300	7.10	34.06	26.69	141.0	.690	2.08
400	6.21	34.15	26.88	123.8	.822	1.01
500	5.69	34.23	27.00	112.5	.940	0.61
600	(5.13)	(34.27)	(27.10)	(103.6)	(1.048)	

STATION 70.90 (Interpolated Values at Standard Depths)

CREST: 34°53'N 124°30'W; July 21, 1952; 2209 GCT; wire angle: 12°; sounding: 2200 fms; depth of observation: 1163 m; weather: overcast; sea: rough; wind: 260°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.99	32.94	24.19	374.0	.000	4.75
10	15.72	32.95	24.26	367.8	.037	4.68
20	15.71	32.95	24.26	367.9	.074	5.09
30	14.82	32.95	24.45	349.6	.110	5.10
50	12.80	32.99	24.90	307.6	.175	5.02
75	10.72	32.88	25.20	279.5	.249	4.54
100	9.52	33.10	25.57	244.3	.314	4.21
150	8.56	33.66	26.16	189.1	.423	3.54
200	7.80	33.95	26.50	157.4	.509	2.68
250	7.20	34.00	26.63	146.1	.585	2.42
300	6.72	34.05	26.73	136.6	.656	1.86
400	5.90	34.13	26.90	121.3	.785	1.14
500	5.37	34.22	27.04	109.2	.900	0.61
600	4.87	34.24	27.11	102.7	1.006	0.49
700	4.52	34.31	27.20	94.3	1.104	0.37
800	4.17	34.37	27.29	86.7	1.195	0.32
1000	3.72	34.44	27.39	77.8	1.359	0.48

STATION 73.50 (Interpolated Values at Standard Depths)

CREST: 35°39'N 121°20'W; July 10, 1952; 2137 GCT; wire angle: 12°; sounding: 50 fms; depth of observation: 75 m; weather: partly cloudy; sea: moderate; wind: 300°, force 3.

0	11.56	33.67	25.66	234.0	.000	5.71
10	10.96	33.69	25.78	222.4	.023	5.50
20	10.63	33.66	25.82	219.2	.045	4.75
30	10.32	33.69	25.90	212.1	.066	4.41
50	9.83	33.73	26.01	201.6	.108	3.91
75	9.08	33.86	26.23	180.8	.156	2.67

STATION 83.60 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 33°31'N 120°43'W; June 7, 1952; 1932 GCT; wire angle: 17°; sounding: 1000 fms; depth of observation: 468 m; weather: partly cloudy; sea: rough; wind: 270°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.94	33.13	24.78	318.0	.000	5.98
10	13.20	33.17	24.96	301.0	.031	6.25
20	12.30	33.10	25.08	289.6	.060	6.00
30	12.13	33.16	25.16	282.4	.089	5.94
50	10.95	33.26	25.45	254.8	.143	5.49
75	9.98	33.48	25.79	223.0	.203	4.56
100	9.09	33.58	26.01	202.1	.256	3.75
150	8.06	33.94	26.45	161.0	.346	2.98
200	7.59	34.02	26.59	149.2	.424	2.26
250	7.15	34.07	26.69	140.2	.496	1.80
300	6.81	34.12	26.77	132.6	.565	1.40
400	6.22	34.20	26.91	120.2	.691	0.79
500.	(5.63)	(34.21)	(27.00)	(113.2)	(.808)	.

STATION 83.70 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 33°14'N 121°26'W; June 8, 1952; 0055, 0122 GCT; wire angle: 17°, 19°; sounding: 2000 fms; depth of observation: 61, 577 m; weather: partly cloudy; sea: rough; wind, 200°, force 2.

0	14.06	33.22	24.82	313.7	.000	6.21
10	13.20	33.37	25.11	286.3	.030	6.30
20	12.41	33.40	25.29	269.6	.058	6.26
30	12.11	33.42	25.36	262.9	.084	5.88
50	10.77	33.51	25.68	233.3	.134	5.11
75	9.93	33.51	25.82	220.0	.191	4.35
100	9.12	33.64	26.06	198.1	.243	3.31
150	8.31	33.95	26.42	163.9	.333	2.43
200	7.50	34.04	26.61	146.5	.411	2.11
250	7.03	34.05	26.69	140.0	.483	1.77
300	6.66	34.09	26.77	132.8	.551	1.41
400	5.89	34.18	26.94	117.5	.676	0.70
500	5.40	34.24	27.05	108.1	.789	0.50

STATION 83.80 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 32°54'N 122°08'W; June 8, 1952; 0734 GCT; wire angle: 12°; sounding: 2200 fms; depth of observation: 582 m; weather: cloudy; sea: rough; wind: 260°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.55	33.10	24.63	332.3	.000	5.98
10	14.42	33.10	24.65	330.0	.033	6.00
20	14.07	33.12	24.74	321.8	.066	5.85
30	14.14	33.11	24.72	324.2	.098	5.98
50	13.41	33.13	24.88	308.9	.161	6.18
75	12.45	33.19	25.12	287.1	.236	5.88
100	11.38	33.22	25.34	266.2	.305	5.37
150	9.43	33.55	25.94	210.6	.424	3.55
200	8.59	33.96	26.39	168.2	.519	2.70
250	7.91	33.98	26.51	157.6	.600	2.49
300	7.29	34.01	26.62	147.3	.677	2.02
400	6.31	34.15	26.86	125.1	.813	0.98
500	5.77	34.20	26.97	115.7	.933	0.77
600	(5.18)	(34.30)	(27.12)	(102.0)	(1.042)	

STATION 83.90 (Interpolated Values at Standard Depths)

SPENCER F. BAIRD: 32°36'N 122°52'W; June 8, 1952; 1334, 1404 GCT; wire angle: 11°, 15°; sounding: 2200 fms; depth of observation: 389, 588 m; weather: cloudy; sea: rough; wind: 220°, force 2.

0	15.11	33.13	24.53	341.6	.000	6.19
10	15.10	33.17	24.56	338.7	.034	5.63
20	15.09	33.19	24.58	337.3	.068	5.67
30	15.02	33.17	24.58	337.6	.102	5.69
50	13.60	33.06	24.79	317.7	.167	6.08
75	11.89	33.13	25.18	281.3	.242	5.60
100	9.99	33.26	25.62	239.9	.307	5.47
150	8.73	33.75	26.20	185.0	.413	3.40
200	8.11	33.97	26.47	160.4	.500	2.63
250	7.52	34.08	26.64	144.6	.576	1.95
300	6.97	34.12	26.75	134.8	.646	1.43
400	6.50	34.23	26.90	121.7	.774	0.80
500	5.91	34.26	27.00	113.1	.891	0.64
600	(5.29)	(34.32)	(27.12)	(101.9)	(.999)	(0.00)

STATION 87.35 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°50'N 118°38'W; June 3, 1952; 1727 GCT; wire angle: 26°; sounding: 260 fms; depth of observation: 367 m; weather: overcast; sea: smooth; wind: 250°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 \delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.70	33.39	24.37	356.6	.000	7.45
10	16.31	33.42	24.48	346.2	.035	6.79
20	13.20	33.40	25.14	284.3	.067	6.01
30	11.26	33.42	25.52	247.9	.093	4.99
50	10.00	33.63	25.90	211.8	.139	3.25
75	9.33	33.83	26.17	186.8	.189	2.87
100	9.07	33.92	26.28	176.6	.234	2.69
150	8.81	34.06	26.43	163.2	.319	2.20
200	8.52	34.17	26.56	151.6	.398	1.83
250	8.28	34.20	26.62	146.7	.473	1.43
300	8.06	34.21	26.67	143.6	.545	1.20)

STATION 87.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°40'N 118°58'W; June 3, 1952; 2053 GCT; wire angle: 14°; sounding: 465 fms; depth of observation: 787 m; weather: cloudy; sea: smooth; wind: 260°, force 2.

0	16.99	33.44	24.34	359.4	.000	5.64
10	16.57	33.42	24.42	351.9	.036	5.78
20	15.94	33.40	24.55	339.9	.070	6.51
30	11.70	33.38	25.41	258.5	.100	6.49
50	10.29	33.35	25.64	237.2	.150	4.72
75	9.48	33.57	25.94	208.4	.205	3.82
100	9.04	33.75	26.15	188.8	.255	3.30
150	8.73	34.04	26.43	163.5	.343	2.51
200	8.23	34.09	26.55	153.2	.422	2.05
250	7.99	34.19	26.66	143.2	.496	1.51
300	7.54	34.23	26.76	134.6	.566	1.07
400	6.77	34.27	26.90	122.4	.694	0.70
500	6.11	34.29	27.00	113.5	.812	0.38
600	5.60	34.36	27.12	102.9	.920	0.32
700	5.23	34.35	27.16	100.1	1.022	0.30
800	(5.11)	(34.43)	(27.23)	(93.8)	(1.119)	(0.00)

STATION 87.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°20'N 119°40'W; June 4, 1952; 0258 GCT; wire angle: 1°; sounding: 40 fms; depth of observation: 50 m; weather: cloudy; sea: slight; wind: 190°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.85	33.45	24.61	333.8	.000	5.97
10	15.11	33.42	24.75	320.6	.033	6.15
20	10.89	33.63	25.75	225.8	.060	4.50
30	10.15	33.68	25.92	210.1	.082	3.70
50	9.46	33.75	26.09	194.3	.122	2.95

STATION 87.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°58'N 120°20'W; June 4, 1952; 0853 GCT; wire angle: 3°; sounding: 430 fms; depth of observation: 609 m; weather: overcast; sea: slight; wind: calm.

0	13.27	33.35	25.08	288.8	.000	6.06
10	12.88	33.39	25.19	278.8	.028	6.03
20	12.67	33.46	25.29	270.0	.056	5.94
30	12.44	33.45	25.32	266.7	.083	5.73
50	11.21	33.39	25.51	249.6	.134	5.29
75	10.48	33.42	25.66	235.6	.195	4.38
100	9.34	33.59	25.98	205.2	.250	3.69
150	8.60	33.90	26.34	171.9	.344	2.75
200	8.25	34.01	26.48	159.5	.427	2.41
250	7.37	34.05	26.64	144.7	.503	2.02
300	6.96	34.06	26.71	139.1	.574	1.74
400	6.04	34.11	26.87	124.6	.706	1.09
500	5.58	34.24	27.03	110.3	.823	0.39
600	5.21	34.31	27.13	101.7	.929	0.29

STATION 87.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°40'N 121°02'W; June 4, 1952; 1514 GCT; wire angle: 4°; sounding: 2100 fms; depth of observation: 605 m; weather: overcast; sea: rough; wind: 320°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.22	33.21	24.98	298.2	.000	6.01
10	13.02	33.21	25.02	294.6	.030	5.38
20	12.82	33.21	25.06	291.1	.059	5.63
30	12.63	33.21	25.10	287.8	.088	5.81
50	12.22	33.30	25.25	274.2	.144	5.86
75	11.32	33.33	25.44	256.5	.210	5.06
100	9.75	33.58	25.91	212.4	.269	3.60
150	8.79	33.83	26.26	180.0	.367	2.79
200	8.21	34.05	26.52	155.9	.451	2.19
250	7.70	34.09	26.62	146.4	.527	1.63
300	7.36	34.14	26.71	138.7	.598	1.22
400	6.29	34.13	26.85	126.4	.730	0.96
500	5.90	34.23	26.98	115.2	.851	0.46
600	5.33	34.31	27.11	103.2	.960	0.34

STATION 87.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°12'N 121°43'W; June 4, 1952; 2048 GCT; wire angle: 2°; sounding: 2100 fms; depth of observation: 612 m; weather: overcast; sea: moderate; wind: calm.

0	14.24	33.17	24.74	321.0	.000	6.08
10	13.61	33.17	24.87	308.8	.031	6.18
20	13.23	33.17	24.95	301.8	.062	6.15
30	13.00	33.17	25.00	297.7	.092	6.00
50	11.87	33.30	25.31	267.9	.149	5.44
75	10.64	33.35	25.58	243.5	.212	4.95
100	9.83	33.41	25.76	226.3	.271	4.19
150	8.89	33.71	26.15	190.4	.375	3.19
200	8.26	33.89	26.38	168.5	.465	2.99
250	7.76	34.02	26.56	152.5	.545	2.39
300	7.59	34.15	26.69	141.2	.619	1.44
400	6.05	34.13	26.88	123.2	.751	0.67
500	5.45	34.19	27.00	112.4	.869	0.43
600	5.02	34.29	27.13	100.8	.975	0.47

STATION 90.28 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°28'N 117°46'W; June 7, 1952; 0007 GCT; wire angle: 0°; sounding: 40 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; 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	17.49	-	-	-	-	5.90
10	16.47	-	-	-	-	6.06
20	11.92	-	-	-	-	4.68
30	10.73	-	-	-	-	4.65
50	9.86	-	-	-	-	3.52

STATION 90.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°24'N 117°55'W; June 6, 1952; 2246 GCT; wire angle: 0°; sounding: 340 fms; depth of observation: 504 m; weather: overcast; sea: slight; wind: 045°, force 1.

0	17.84	33.44	24.14	378.8	.000	0.00
10	15.69	33.37	24.59	336.5	.036	6.01
20	13.51	33.34	25.03	294.7	.067	6.00
30	12.30	33.33	25.26	272.9	.096	5.98
50	11.22	33.35	25.47	252.8	.148	4.53
75	9.75	33.66	25.97	206.0	.206	3.30
100	9.36	33.84	26.17	187.1	.255	2.99
150	9.10	34.03	26.36	169.9	.344	2.37
200	8.77	34.17	26.53	155.4	.425	1.82
250	8.27	34.23	26.65	144.3	.500	1.40
300	7.56	34.18	26.72	138.6	.571	1.29
400	6.95	34.25	26.86	126.4	.703	0.70
500	6.35	34.27	26.95	118.1	.826	0.46

STATION 90.37 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°12'N 118°24'W; June 6, 1952; 1806 GCT; wire angle: 3°; sounding: 610 fms; depth of observation: 940 m; weather: overcast; sea: moderate; wind: calm:

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.08	33.39	24.28	365.1	.000	5.60
10	16.94	33.39	24.31	362.3	.036	5.49
20	15.50	33.36	24.62	333.5	.071	6.58
30	11.82	33.35	25.36	262.8	.101	6.62
50	9.61	33.66	25.99	203.3	.148	3.42
75	9.39	33.91	26.22	181.9	.196	3.30
100	9.26	33.96	26.28	176.6	.241	2.60
150	8.92	34.14	26.48	159.0	.324	1.94
200	8.56	34.22	26.60	148.5	.401	1.67
250	8.15	34.23	26.67	142.6	.474	1.37
300	7.57	34.25	26.77	133.5	.543	1.06
400	6.93	34.26	26.87	125.3	.673	0.92
500	6.22	34.32	27.01	112.7	.792	0.52
600	5.58	34.37	27.13	101.9	.899	0.32
700	5.14	34.40	27.21	95.3	.997	0.33
800	4.81	34.43	27.27	90.0	1.090	0.38
1000	(4.00)	(34.51)	(27.42)	(76.0)	(1.256)	-

STATION 90.45 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°56'N 118°56'W; June 6, 1952; 1338 GCT; wire angle: 0°; sounding: 820 fms; depth of observation: 610 m; weather: overcast; sea: moderate; wind: 120°, force 1.

0	15.68	33.48	24.67	327.9	.000	5.88
10	14.69	33.49	24.90	306.9	.032	6.28
20	12.27	33.51	25.40	258.9	.060	5.82
30	10.60	33.55	25.74	227.1	.084	4.41
50	9.71	33.71	26.01	201.2	.127	3.27
75	9.05	33.89	26.26	178.1	.175	2.79
100	8.67	33.93	26.35	169.8	.218	2.73
150	8.42	34.12	26.54	152.9	.299	1.99
200	8.40	34.21	26.61	146.9	.374	1.34
250	7.85	34.26	26.74	136.0	.444	1.07
300	7.48	34.31	26.83	127.8	.510	0.86
400	6.71	34.29	26.92	120.1	.634	0.57
500	6.04	34.33	27.04	109.6	.749	0.47
600	5.45	34.36	27.14	101.0	.854	0.37

STATION 90.53 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°40'N 119°30'W; June 6, 1952; 0853 GCT; wire angle: 6°; sounding: 750 fms; depth of observation: 931 m; weather: overcast; sea: slight; wind: calm.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.13	33.19	24.57	337.6	.000	5.78
10	14.26	33.17	24.74	321.6	.033	6.01
20	13.55	33.17	24.89	307.9	.064	6.08
30	12.92	33.18	25.02	295.4	.095	6.12
50	11.95	33.28	25.28	270.8	.151	6.43
75	10.10	33.35	25.67	234.6	.214	4.38
100	9.21	33.68	26.07	196.6	.268	3.56
150	8.47	33.97	26.42	164.8	.359	2.46
200	8.13	34.09	26.56	151.8	.438	1.87
250	7.81	34.22	26.71	138.4	.510	1.19
300	6.90	34.16	26.79	130.9	.578	1.15
400	6.50	34.24	26.91	121.0	.704	0.56
500	6.11	34.27	26.98	114.9	.821	0.37
600	5.45	34.18	26.99	114.3	.936	0.31
700	5.13	34.17	27.02	112.1	1.049	0.30
800	4.81	34.20	27.08	107.0	1.159	0.30
1000	(4.14)	(34.49)	(27.39)	(79.2)	(1.345)	[illegible]

STATION 90.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°26'N 120°00'W; June 6, 1952; 0433 GCT; wire angle: 0°; sounding: 780 fms; depth of observation: 610 m; weather: overcast; sea: slight; wind: 240°, force 1.

0	15.27	33.19	24.54	340.5	.000	5.77
10	14.90	33.19	24.62	333.1	.034	5.94
20	14.66	33.18	24.66	329.2	.067	5.90
30	14.44	33.14	24.68	328.0	.100	5.80
50	13.38	33.06	24.84	313.5	.164	6.05
75	11.91	33.12	25.17	282.4	.238	5.70
100	9.82	33.30	25.68	234.3	.303	4.54
150	8.84	33.97	26.36	170.4	.404	3.20
200	8.07	34.04	26.53	154.6	.485	2.85
250	7.29	34.05	26.65	143.6	.560	2.80
300	6.84	34.04	26.71	138.9	.630	1.98
400	6.20	34.12	26.85	125.9	.763	0.90
500	5.82	34.22	26.98	114.9	.883	0.46
600	5.33	34.32	27.12	102.4	.992	0.35

STATION 90.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°04'N 120°39'W; June 5, 1952; 2250 GCT; wire angle: 10°; sounding: 2100 fms; depth of observation: 929 m; weather: overcast; sea: moderate; wind: 240°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.10	33.22	24.38	355.9	.000	5.95
10	15.43	33.22	24.53	341.9	.035	5.71
20	15.31	33.20	24.54	341.2	.069	5.75
30	15.23	33.16	24.53	342.7	.103	5.93
50	12.99	32.95	24.83	314.2	.169	6.32
75	11.27	33.01	25.20	279.2	.243	5.72
100	10.21	33.22	25.55	246.5	.309	4.62
150	8.78	33.68	26.14	190.9	.418	3.71
200	8.35	33.96	26.43	164.6	.507	2.80
250	7.72	34.02	26.57	151.9	.586	2.89
300	7.40	34.00	26.60	149.6	.662	2.83
400	6.18	34.13	26.86	124.9	.799	1.06
500	5.55	34.24	27.03	110.0	.916	0.54
600	5.14	34.34	27.16	98.6	1.021	0.37
700	4.80	34.39	27.24	91.8	1.116	0.37
800	4.44	34.42	27.30	86.2	1.205	0.38
1000	(3.94)	(34.46)	(27.39)	(79.0)	(1.370)	

STATION 90.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°48'N 121°14'W; June 5, 1952; 1802 GCT; wire angle: 2°; sounding: 2000 fms; depth of observation: 609 m; weather: overcast; sea: moderate; wind: 190°, force 1.

0	15.64	33.22	24.48	346.1	.000	5.79
10	15.35	33.22	24.55	340.3	.034	5.77
20	15.12	33.22	24.60	335.7	.068	5.78
30	15.05	33.20	24.60	336.0	.102	5.83
50	13.54	33.15	24.87	310.0	.166	6.14
75	11.70	33.15	25.23	276.5	.240	5.65
100	10.06	33.29	25.63	238.9	.304	4.72
150	8.91	33.69	26.13	192.2	.412	3.50
200	8.40	33.95	26.41	166.1	.501	2.72
250	7.57	34.00	26.57	151.2	.581	2.52
300	6.81	34.09	26.75	134.8	.652	2.17
400	6.15	34.16	26.89	122.3	.781	0.83
500	5.52	34.22	27.02	111.1	.897	0.50
600	5.17	34.30	27.12	101.9	1.004	0.40

STATION 90.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°25'N 121°59'W; June 5, 1952; 1312 GCT; wire angle: 13°; sounding: 2000 fms; depth of observation: 586 m; weather: overcast; sea: smooth; wind: 260°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.43	33.15	24.47	346.8	.000	5.88
10	15.37	33.12	24.46	348.0	.035	5.84
20	15.29	33.19	24.54	341.5	.069	5.69
30	15.19	33.17	24.54	341.1	.103	5.69
50	13.47	33.02	24.79	318.2	.169	6.16
75	12.80	32.97	24.88	309.7	.248	6.03
100	11.63	33.03	25.15	284.6	.322	5.68
150	8.99	33.41	25.90	214.1	.447	4.25
200	8.64	33.84	26.29	177.9	.545	3.12
250	8.09	34.01	26.50	158.0	.629	2.51
300	7.35	34.08	26.67	143.0	.704	2.10
400	6.22	34.13	26.86	125.4	.838	1.23
500	5.54	34.17	26.98	115.0	.958	0.67
600	(5.18)	(34.24)	(27.07)	(106.5)	(1.069)	

STATION 90.100 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°04'N 122°40'W; June 5, 1952; 0618 GCT; wire angle: 5°; sounding: 2200 fms; depth of observation: 606 m; weather: partly cloudy; sea: slight; wind: calm.

0	16.44	33.40	24.44	350.2	.000	5.64
10	16.07	33.42	24.54	341.0	.035	5.70
20	16.13	33.40	24.51	344.0	.069	5.58
30	16.16	33.39	24.49	345.7	.103	5.58
50	15.81	33.39	24.57	338.7	.172	5.60
75	15.05	33.37	24.73	324.8	.255	5.77
100	14.32	33.31	24.84	315.0	.335	5.81
150	10.50	33.28	25.55	247.8	.475	4.99
200	8.98	33.66	26.09	196.4	.586	3.88
250	8.20	33.93	26.43	165.5	.677	3.16
300	7.56	34.05	26.61	148.2	.755	2.54
400	6.60	34.11	26.79	132.0	.895	1.30
500	5.91	34.16	26.92	120.5	1.022	0.00
600	5.43	34.30	27.09	105.2	1.134	

STATION 93.27 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°56'N 117°19'W; June 7, 1952; 0518 GCT; wire angle: 5°; sounding: 75 fms; depth of observation: 124m; weather: partly cloudy; sea: smooth; wind: 260°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.28	33.42	24.49	345.2	.000	6.15
10	13.87	33.37	24.98	299.2	.032	6.54
20	10.90	33.44	25.60	240.0	.059	5.12
30	10.18	33.58	25.83	218.0	.082	3.67
50	9.64	33.68	26.00	202.3	.124	3.31
75	9.42	33.80	26.13	190.5	.173	2.89
100	9.28	33.93	26.26	179.2	.219	2.71

STATION 93.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°50'N 117°32'W; June 7, 1952; 0732 GCT; wire angle: 3°; sounding: 450 fms; depth of observation: 610 m; weather: cloudy; sea: smooth; wind: 270°, force 3.

0	17.49	33.42	24.21	372.2	.000	5.55
10	16.19	33.37	24.47	347.2	.036	6.26
20	12.62	33.32	25.19	279.3	.067	6.52
30	11.71	33.31	25.35	263.8	.094	6.53
50	10.10	33.58	25.85	217.1	.143	3.87
75	9.50	33.76	26.09	194.7	.194	3.24
100	9.47	34.00	26.28	176.9	.240	2.53
150	9.16	34.12	26.42	164.2	.326	1.96
200	8.97	34.13	26.46	161.5	.407	1.28
250	8.73	34.28	26.62	147.6	.484	1.03
300	8.40	34.33	26.71	139.8	.556	0.98
400	7.62	34.37	26.86	127.0	.690	0.63
500	6.39	34.31	26.98	115.7	.811	0.45
600	5.81	34.37	27.10	104.9	.921	0.43

STATION 93.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°30'N 118°12'W; June 7, 1952; 1322 GCT; wire angle: 10°; sounding: 740 fms; depth of observation: 597 m; weather: overcast; sea: slight; wind: 270°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.51	33.21	24.50	344.1	.000	5.82
10	13.85	33.18	24.83	312.8	.033	6.03
20	12.81	33.18	25.04	293.1	.063	5.90
30	12.01	33.21	25.22	276.5	.092	5.70
50	11.67	33.54	25.54	246.6	.144	5.21
75	9.54	33.72	26.04	199.0	.200	3.01
100	9.08	33.80	26.19	185.7	.248	2.88
150	8.60	33.96	26.39	167.5	.336	2.58
200	8.07	34.07	26.55	152.4	.416	2.01
250	7.63	34.17	26.70	139.5	.489	1.32
300	7.30	34.20	26.77	133.4	.557	1.08
400	6.64	34.25	26.90	122.1	.685	0.62
500	6.08	34.20	26.93	119.7	.806	0.36
600	(5.41)	(34.27)	(27.07)	(107.1)	(.919)	(0.32)

STATION 93.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°10'N 118°54'W; June 7, 1952; 1850 GCT; wire angle: 17°; sounding: 655 fms; depth of observation: 638 m; weather: overcast; sea:moderate; wind: 310°, force 2.

0	15.90	33.44	24.59	335.6	.000	6.10
10	13.01	33.42	25.19	279.0	.031	6.12
20	12.40	33.40	25.29	269.4	.058	5.87
30	11.62	33.36	25.41	258.6	.085	5.30
50	9.83	33.24	25.63	237.9	.134	4.29
75	9.09	33.51	25.96	206.8	.190	3.65
100	8.83	33.80	26.23	181.9	.238	2.88
150	8.53	34.08	26.49	157.6	.323	1.88
200	8.19	34.18	26.62	146.0	.399	1.49
250	7.79	34.23	26.72	137.3	.470	1.13
300	7.38	34.30	26.84	127.1	.536	0.88
400	6.60	34.31	26.95	117.1	.658	0.50
500	5.93	34.33	27.05	108.1	.771	0.33
600	5.41	34.33	27.12	102.7	.876	0.39

STATION 93.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°48'N 119°32'W; June 8, 1952; 0010 GCT; wire angle: 8°; sounding: 840 fms; depth of observation: 651 m; weather: partly cloudy; sea: rough; wind: 300°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.76	33.15	24.40	353.8	.000	5.74
10	15.37	33.17	24.50	344.3	.035	5.78
20	15.09	33.14	24.54	341.0	.069	5.80
30	14.70	33.11	24.60	335.4	.103	5.88
50	13.67	33.07	24.79	318.4	.168	6.08
75	11.74	33.06	25.15	283.8	.244	5.80
100	10.24	33.07	25.43	258.0	.311	5.19
150	9.12	33.54	25.98	206.5	.427	3.87
200	8.28	33.92	26.41	166.6	.521	2.91
250	7.67	34.09	26.63	146.0	.599	2.12
300	7.28	34.18	26.76	134.6	.669	1.34
400	6.63	34.23	26.88	123.5	.798	0.78
500	6.12	34.27	26.98	115.1	.917	0.49
600	5.62	34.31	27.08	106.9	1.028	0.40

STATION 93.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°28'N 120°13'W; June 8, 1952; 0533 GCT; wire angle: 11°; sounding: 2200 fms; depth of observation: 598 m; weather: partly cloudy; sea: rough; wind: 270°, force 3.

0	16.56	33.31	24.34	359.4	.000	5.34
10	16.58	33.32	24.34	359.4	.036	5.66
20	15.60	33.22	24.49	345.8	.071	5.87
30	15.46	33.23	24.53	342.4	.106	5.87
50	15.74	33.49	24.67	329.9	.173	5.69
75	15.31	33.53	24.79	318.6	.254	5.82
100	13.49	33.46	25.12	287.5	.330	5.52
150	9.59	33.53	25.89	214.6	.455	4.49
200	8.60	33.89	26.33	173.6	.552	3.76
250	7.72	33.98	26.54	154.8	.634	3.08
300	7.19	34.05	26.67	143.0	.709	2.12
400	6.33	34.13	26.84	126.9	.844	1.14
500	5.90	34.29	27.03	110.7	.963	0.57
600	(5.48)	(34.34)	(27.12)	(102.8)	(1.069)	(0.35)

STATION 93.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°07'N 120°53'W; June 8, 1952; 1047 GCT; wire angle; 16°; sounding: 2000+ fms; depth of observation: 582 m; weather: partly cloudy sea: moderate; wind: 280°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.53	33.39	24.41	352.9	.000	6.33
10	16.59	33.36	24.37	356.7	.035	6.44
20	16.24	33.33	24.43	351.5	.071	5.88
30	15.99	33.33	24.49	346.4	.106	5.75
50	15.78	33.39	24.58	338.1	.174	5.72
75	15.01	33.35	24.72	325.5	.257	5.74
100	14.49	33.35	24.83	315.5	.337	5.70
150	11.15	33.26	25.42	260.4	.481	5.17
200	9.11	33.64	26.06	199.8	.596	4.10
250	8.32	33.93	26.41	167.3	.688	3.20
300	7.69	34.03	26.58	151.5	.768	2.56
400	6.50	34.10	26.80	131.4	.909	1.33
500	5.79	34.18	26.95	117.4	1.034	0.76
600	(5.34)	(34.29)	(27.09)	(104.8)	(1.145)	

STATION 97.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°16'N 117°09'W; June 10, 1952; 0241 GCT; wire angle: 0°; sounding: 30 fms; depth of observation: 40 m; weather: clear; sea: moderate; wind: 290°, force 4.

0	15.21	-	-	-	-	5.88
10	11.10	-	-	-	-	5.01
20	10.09	-	-	-	-	3.64
30	10.00	-	-	-	-	3.41

STATION 97.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°14'N 117°09'W; June 14, 1952; 0126 GCT; wire angle: 14°; sounding: 35 fms; depth of observation: 29 m; weather: clear; sea: rough; wind: 280°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.73	33.53	24.70	325.3	.000	5.71
10	11.24	33.55	25.62	237.5	.028	4.52
20	9.90	33.69	25.97	205.1	.050	2.96
30	9.59	33.95	26.22	181.2	.070	2.00

STATION 97.32 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°13'N 117°19'W; June 10, 1952; 0052 GCT; wire angle: 34°; sounding: 710 fms; depth of observation: 237 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

0	16.70	33.24	24.26	367.6	.000	6.18
10	16.60	33.28	24.31	362.8	.037	6.27
20	14.50	33.24	24.74	321.6	.071	6.20
30	10.33	33.26	25.56	244.1	.099	5.70
50	10.05	33.45	25.76	225.9	.146	3.63
75	9.89	33.73	26.00	203.1	.200	3.40
100	9.49	33.80	26.12	192.0	.249	3.17
150	9.13	34.03	26.36	170.4	.340	2.73
200	8.73	34.05	26.44	163.7	.423	1.93

STATION 97.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°57'N 117°48'W; June 9, 1952; 2043 GCT; wire angle: 4°; sounding: 660 fms; depth of observation: 608 m; weather: partly cloudy; sea: moderate; wind: 310°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.42	33.24	24.32	361.4	.000	5.88
10	15.47	33.24	24.53	341.3	.035	6.02
20	14.08	33.24	24.83	313.2	.068	6.35
30	12.72	33.25	25.11	286.6	.098	6.37
50	11.51	33.42	25.47	252.7	.152	5.55
75	10.20	33.31	25.62	239.1	.213	4.65
100	9.53	33.57	25.94	209.7	.269	3.93
150	8.68	33.91	26.34	172.4	.365	3.06
200	8.39	34.09	26.52	155.6	.447	2.21
250	7.93	34.10	26.60	149.0	.523	1.57
300	7.57	34.14	26.68	141.7	.596	1.02
400	6.64	34.20	26.86	125.8	.729	0.63
500	6.16	34.18	26.91	122.3	.853	0.47
600	5.50	34.22	27.02	112.0	.971	0.46

STATION 97.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°36'N 118°30'W; June 9, 1952; 1526 GCT; wire angle: 10°; sounding: 1300 fms; depth of observation: 599 m; weather: partly cloudy; sea: moderate; wind: calm.

0	16.00	33.31	24.47	347.2	.000	5.78
10	14.52	33.24	24.74	321.7	.033	6.06
20	13.40	33.26	24.99	298.4	.064	6.15
30	12.93	33.35	25.15	283.1	.094	6.15
50	12.31	33.42	25.32	267.0	.149	5.89
75	10.37	33.30	25.58	242.7	.212	4.74
100	9.81	33.51	25.84	218.6	.270	3.89
150	8.85	33.87	26.28	177.9	.369	3.05
200	8.25	34.00	26.47	160.2	.454	2.49
250	7.74	34.16	26.67	141.8	.529	1.63
300	7.39	34.16	26.72	137.6	.599	1.34
400	6.71	34.22	26.87	125.3	.730	0.65
500	6.13	34.30	27.00	113.0	.850	0.42
600	(5.44)	(34.36)	(27.14)	(100.8)	(.956)	(0.33)

STATION 97.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°16'N 119°10'W; June 9, 1952; 0836, 0917 GCT; wire angle: 4°, 3°; sounding: 2000 fms; depth of observation: 249, 602 m; weather: clear; sea: moderate; wind: 260°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.32	33.25	24.35	358.5	.000	5.72
10	15.88	33.21	24.42	352.2	.036	5.74
20	15.14	33.21	24.58	336.9	.070	5.81
30	14.40	33.21	24.74	322.0	.103	5.97
50	13.50	33.22	24.94	304.1	.166	5.99
75	11.72	33.21	25.27	272.4	.238	5.37
100	10.87	33.26	25.47	254.5	.303	4.81
150	9.02	33.65	26.08	196.8	.416	3.79
200	8.62	33.99	26.41	166.5	.507	2.51
250	8.15	34.12	26.58	150.7	.586	1.92
300	7.83	34.21	26.70	140.2	.659	1.23
400	6.92	34.31	26.91	121.5	.790	0.63
500	6.27	34.31	26.99	114.1	.908	0.44
600	5.68	34.31	27.07	107.6	1.019	0.30

STATION 97.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°53'N 119°50'W; June 9, 1952; 0301 GCT; wire angle: 10°; sounding: 2000 fms; depth of observation: 597 m; weather: cloudy; sea: rough; wind: 230°, force 1.

0	16.52	33.17	24.24	368.7	.000	5.44
10	15.13	33.17	24.55	339.3	.035	5.87
20	14.88	33.13	24.58	337.4	.069	5.67
30	14.66	33.13	24.63	333.2	.103	5.67
50	13.99	33.17	24.80	317.3	.168	6.22
75	12.11	33.10	25.11	287.5	.243	5.97
100	10.05	33.06	25.45	255.7	.311	5.21
150	8.98	33.62	26.06	198.4	.425	3.93
200	8.18	33.91	26.41	165.8	.516	3.64
250	7.78	33.98	26.53	155.7	.596	2.71
300	7.25	34.02	26.63	146.0	.672	2.59
400	6.72	34.13	26.79	132.1	.811	1.26
500	6.00	34.22	26.96	117.2	.935	0.50
600	(5.60)	(34.34)	(27.10)	(104.4)	(1.046)	(0.40)

STATION 97.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°35'N 120°31'W; June 8, 1952; 2202 GCT; wire angle: 7°; sounding: 2000+ fms; depth of observation: 609 m; weather: cloudy; sea: rough; wind: 230°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.15	33.28	24.18	374.7	.000	5.70
10	16.31	33.24	24.35	359.3	.037	5.73
20	15.95	33.26	24.44	350.4	.072	5.73
30	15.68	33.29	24.53	342.7	.107	5.75
50	15.24	33.34	24.66	330.3	.174	5.87
75	13.98	33.17	24.80	317.8	.255	5.99
100	13.55	33.24	24.94	304.8	.333	5.91
150	10.39	33.31	25.59	243.8	.470	4.97
200	8.82	33.68	26.13	192.4	.579	3.90
250	8.19	33.90	26.40	167.6	.669	3.21
300	7.40	34.04	26.63	146.7	.748	2.40
400	6.82	34.15	26.80	132.0	.887	1.04
500	6.04	34.24	26.97	116.2	1.011	0.60
600	5.57	34.32	27.09	105.5	1.122	0.36

STATION 97.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°11'N 120°55'W; June 8, 1952; 1714 GCT; wire angle: 7°; sounding: 2200 fms; depth of observation: 609 m; weather: partly cloudy; sea: rough; wind: 270°, force 4.

0	17.13	33.53	24.38	356.0	.000	5.48
10	17.05	33.53	24.40	354.5	.036	5.56
20	16.87	33.53	24.44	350.8	.071	5.62
30	16.79	33.53	24.46	349.3	.106	5.66
50	15.90	33.44	24.59	337.0	.174	5.69
75	14.70	33.31	24.76	322.0	.257	5.78
100	12.50	33.31	25.20	279.7	.332	5.30
150	9.76	33.57	25.90	214.3	.456	4.19
200	8.80	33.90	26.31	175.8	.553	3.11
250	8.23	34.06	26.52	156.3	.636	2.48
300	7.67	34.13	26.66	143.8	.711	1.81
400	6.68	34.20	26.85	126.4	.846	0.92
500	6.08	34.20	26.93	119.7	.969	0.55
600	5.52	34.32	27.10	104.8	1.082	0.43

STATION 100.29 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°42'N 116°43'W; June 10, 1952; 0801 GCT; wire angle: 2°; sounding: 105 fms; depth of observation: 75 m; weather: clear; sea: slight; wind: 310°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	11.40	33.68	25.70	230.4	.000	4.32
10	10.36	33.73	25.92	209.4	.022	2.55
20	10.14	33.80	26.01	200.8	.043	2.31
30	10.01	33.84	26.07	196.0	.062	2.34
50	9.92	33.86	26.10	193.5	.101	2.24
75	9.81	33.89	26.14	190.0	.149	2.20

STATION 100.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°40'N 116°46'W; June 10, 1952; 0910 GCT; wire angle: 17°; sounding: 180 fms; depth of observation: 242 m; weather: clear; sea: slight; wind: 310°, force 4.

0	12.72	33.53	25.33	265.2	.000	5.46
10	12.20	33.60	25.48	250.8	.026	4.91
20	10.50	33.74	25.90	211.2	.049	3.15
30	10.29	33.76	25.96	206.4	.070	2.51
50	10.13	33.80	26.01	201.3	.111	2.34
75	9.91	33.84	26.08	195.3	.160	2.23
100	9.66	33.99	26.24	180.7	.207	2.22
150	9.20	34.16	26.45	161.9	.293	1.62
200	8.93	34.23	26.55	153.4	.372	1.20
250	(8.50)	(34.28)	(26.65)	(144.1)	(.446)	(0.98)

STATION 100.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°21'N 117°27'W; June 10, 1952; 1443 GCT; wire angle: 3°; sounding: 1100 fms; depth of observation: 670 m; weather: cloudy; sea: 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	16.72	33.39	24.37	357.1	.000	5.64
10	16.73	33.40	24.37	356.9	.036	5.79
20	16.69	33.33	24.33	361.4	.072	5.94
30	13.00	33.33	25.12	285.9	.104	5.95
50	10.63	33.37	25.59	241.3	.157	5.07
75	10.05	33.55	25.83	219.0	.214	3.89
100	9.70	33.73	26.03	200.6	.267	3.41
150	8.91	33.99	26.36	170.0	.359	2.82
200	8.44	34.19	26.59	149.0	.439	1.85
250	8.28	34.26	26.67	142.3	.512	1.26
300	7.69	34.29	26.78	132.3	.580	1.12
400	6.98	34.35	26.93	119.4	.706	1.03
500	6.27	34.37	27.04	109.7	.821	0.28
600	5.62	34.38	27.13	101.7	.926	0.25

STATION 100.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°01'N 118°07'W; June 10, 1952; 1957, 2037 GCT; wire angle: 22°, 24°; sounding: 1900 fms; depth of observation: 151, 615 m; weather: cloudy; sea: moderate; wind: 300°, force 4.

0	16.41	33.37	24.42	351.7	.000	5.70
10	16.39	33.33	24.40	354.5	.035	5.60
20	16.08	33.31	24.45	349.5	.071	5.68
30	14.66	33.30	24.76	320.7	.104	5.74
50	12.15	33.30	25.26	272.9	.164	5.85
75	10.89	33.31	25.50	250.6	.229	4.60
100	9.80	33.54	25.87	216.2	.288	3.73
150	8.89	33.93	26.32	174.1	.385	2.82
200	8.44	34.14	26.55	152.7	.467	2.05
250	7.90	34.18	26.67	142.6	.541	1.61
300	7.77	34.29	26.77	133.4	.610	0.88
400	6.72	34.33	26.95	117.3	.735	0.58
500	6.03	34.33	27.04	109.4	.849	0.38
600	5.40	34.37	27.15	99.6	.954	0.34

STATION 100.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°41'N 118°48'W; June 11, 1952; 0155 GCT; wire angle: 12°; sounding: 2000+ fms; depth of observation: 928 m; weather: cloudy; sea: moderate; 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	17.04	33.33	24.25	368.6	.000	5.57
10	17.04	33.31	24.23	370.3	.037	5.53
20	16.81	33.31	24.28	365.5	.074	5.59
30	15.17	33.30	24.65	331.2	.109	5.80
50	13.26	33.26	25.01	296.5	.171	6.07
75	11.20	33.32	25.45	255.2	.240	4.89
100	10.25	33.54	25.79	223.5	.300	3.87
150	9.26	33.81	26.17	188.7	.403	3.17
200	8.63	34.02	26.43	164.4	.491	2.55
250	8.03	34.09	26.58	151.2	.570	1.93
300	7.73	34.23	26.73	137.3	.642	1.26
400	6.83	34.23	26.86	126.2	.774	0.73
500	6.17	34.23	26.94	118.7	.897	0.43
600	5.54	34.37	27.13	101.4	1.007	0.27
700	4.99	34.43	27.25	91.1	1.103	0.30
800	4.55	34.47	27.33	83.8	1.190	0.42
1000	(3.94)	(34.47)	(27.39)	(78.3)	(1.352)	

STATION 100.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°20'N 119°27'W; June 11, 1952; 0739 GCT; wire angle: 23°; sounding: 2200 fms; depth of observation: 613 m; weather: cloudy; sea: moderate; wind: 310°, force 4.

0	16.34	33.21	24.32	361.9	.000	5.67
10	16.34	33.21	24.32	362.2	.036	5.65
20	16.04	33.17	24.35	358.9	.072	5.70
30	14.98	33.15	24.57	338.2	.107	5.89
50	13.70	33.15	24.84	313.1	.172	5.97
75	12.50	33.15	25.08	290.9	.248	5.78
100	11.20	33.18	25.34	266.0	.317	5.32
150	9.30	33.49	25.91	213.0	.437	4.32
200	8.69	33.91	26.33	173.4	.534	3.11
250	8.20	34.07	26.53	155.2	.616	2.21
300	7.63	34.14	26.67	142.5	.690	1.48
400	6.73	34.21	26.85	126.3	.825	0.83
500	6.03	34.27	26.99	113.9	.945	0.53
600	5.50	34.35	27.12	102.4	1.053	0.39

STATION 100.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°58'N 120°07'W; June 11, 1952; 1321, 1340 GCT; wire angle: 15°, 17°; sounding: 2000+ fms; depth of observation: 96, 908 m; weather: overcast; sea: 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	17.45	33.42	24.22	371.3	.000	5.39
10	17.48	33.42	24.21	372.3	.037	5.58
20	17.22	33.45	24.29	364.5	.074	5.80
30	16.50	33.45	24.46	348.7	.110	5.91
50	15.40	33.34	24.63	333.7	.178	6.05
75	14.55	33.29	24.77	320.4	.260	6.11
100	11.79	33.19	25.24	275.7	.334	5.32
150	9.93	33.53	25.84	220.0	.458	4.49
200	9.08	33.91	26.27	179.4	.558	3.52
250	8.22	34.06	26.52	156.2	.642	2.57
300	7.72	34.15	26.67	143.1	.717	1.68
400	6.89	34.20	26.83	129.2	.853	0.96
500	6.31	34.26	26.95	118.3	.977	0.49
600	5.62	34.31	27.08	106.9	1.089	0.33
700	5.01	34.26	27.11	104.0	1.195	0.33
800	4.57	34.24	27.14	101.1	1.297	0.40
1000	(4.08)	(34.48)	(27.39)	(79.2)	(1.477)	

STATION 100.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°36'N 120°48'W; June 11, 1952; 1926 GCT; wire angle: 21°; sounding: 2000 fms; depth of observation: 633 m; weather: overcast; sea: very rough; wind: 320°, force 5.

0	17.25	33.40	24.25	368.2	.000	5.40
10	17.26	33.46	24.29	364.4	.037	5.45
20	17.10	33.36	24.25	368.3	.073	5.51
30	16.34	33.35	24.42	352.5	.109	5.59
50	15.73	33.35	24.56	339.9	.179	5.73
75	14.18	33.21	24.79	318.8	.261	5.83
100	12.49	33.17	25.10	289.9	.337	5.65
150	9.60	33.40	25.79	224.3	.466	4.40
200	8.68	33.98	26.39	168.1	.564	3.40
250	8.02	33.95	26.47	161.4	.646	2.98
300	7.42	34.02	26.61	148.4	.723	2.17
400	6.50	34.12	26.81	129.9	.863	1.02
500	6.09	34.21	26.94	119.1	.987	0.61
600	5.46	34.33	27.11	103.3	1.098	0.41

STATION 100.100 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°20'N 121°27'W; June 12, 1952; 0037 GCT; wire angle: 23°; sounding: 2000 fms; depth of observation: 652 m; weather: overcast; sea: high; wind: 310°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.15	33.44	24.30	363.0	.000	5.51
10	17.19	33.40	24.26	367.2	.037	5.42
20	17.20	33.40	24.26	367.7	.073	5.44
30	17.18	33.40	24.27	367.5	.110	5.51
50	15.40	33.26	24.56	339.5	.181	5.59
75	15.11	33.31	24.67	330.5	.264	6.24
100	14.70	33.35	24.79	319.8	.346	6.09
150	10.30	33.48	25.74	229.8	.483	4.52
200	9.06	33.80	26.19	187.2	.587	3.12
250	8.21	33.92	26.42	166.4	.676	2.10
300	7.53	34.00	26.58	151.5	.755	1.88
400	6.42	34.13	26.83	128.1	.895	1.20
500	5.82	34.23	26.99	114.1	1.016	0.65
600	5.38	34.30	27.10	104.5	1.125	0.60

STATION 103.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°05'N 116°25'W; June 13, 1952; 1632 GCT; wire angle: 2°; sounding: 35 fms; depth of observation: 50 m; weather: clear; sea: moderate; wind: 300°, force 4.

0	11.48	33.68	25.68	231.8	.000	4.74
10	11.40	33.68	25.70	230.7	.023	4.74
20	10.96	33.64	25.74	226.3	.046	4.11
30	9.98	33.75	26.00	202.2	.067	3.07
50	9.69	33.89	26.16	187.6	.106	2.84

STATION 103.35 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°56'N 116°45'W; June 13, 1952; 1349 GCT; wire angle: 12°; sounding: 840 fms; depth of observation: 688 m; weather: partly cloudy; sea: 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)
0	12.61	33.35	25.21	276.5	.000	5.81
10	12.33	33.36	25.27	270.8	.027	5.72
20	11.81	33.40	25.40	258.7	.054	5.48
30	11.09	33.46	25.58	242.0	.079	4.64
50	10.11	33.51	25.79	222.4	.125	4.08
75	9.91	33.63	25.92	210.8	.179	3.25
100	9.69	33.94	26.20	184.9	.229	2.75
150	9.12	34.10	26.42	165.0	.316	2.10
200	8.65	34.20	26.57	151.4	.396	1.56
250	8.24	34.26	26.68	141.7	.469	1.19
300	7.98	34.34	26.78	132.8	.537	0.83
400	7.01	34.32	26.90	122.0	.665	0.58
500	6.41	34.35	27.01	113.0	.782	0.38
600	5.88	34.39	27.11	104.3	.891	0.32
700	(5.39)	(34.42)	(27.19)	(97.0)	(.992)	

STATION 103.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°06'N 118°26'W; June 13, 1952; 0106 GCT; wire angle: 44°; sounding: 1600 fms; depth of observation: 568 m; weather: clear; sea: high; wind: 310°, force 7.

0	16.4	-	-	-	-	-
10	16.4	-	-	-	-	-
20	16.4	-	-	-	-	-
30	16.4	-	-	-	-	-
50	14.2	-	-	-	-	-
75	12.1	-	-	-	-	-
100	10.5	-	-	-	-	-
150	9.47	-	-	-	-	2.98
200	9.06	33.88	26.25	181.3	-	2.18
250	8.81	34.15	26.50	158.4	-	1.49
300	8.40	34.22	26.62	147.9	-	1.10
400	6.92	34.26	26.87	125.2	-	0.80
500	6.39	34.34	27.00	113.5	-	0.42

STATION 103.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°48'N 119°04'W; June 12, 1952; 1919 GCT; wire angle: 33°; sounding: 2200 fms; depth of observation: 547 m; weather: clear; sea: high; wind: 310°, force 7.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.18	33.51	24.35	358.6	.000	5.51
10	17.20	33.48	24.32	361.6	.036	5.45
20	17.19	33.46	24.31	363.1	.072	5.47
30	17.13	33.47	24.33	361.3	.108	5.51
50	16.69	33.53	24.48	347.7	.179	5.60
75	15.00	33.32	24.70	327.5	.264	5.78
100	13.11	33.30	25.08	292.0	.341	5.72
150	10.29	33.62	25.85	219.3	.469	3.89
200	9.08	33.93	26.29	177.9	.568	3.13
250	8.44	34.09	26.51	157.2	.652	2.58
300	7.79	34.12	26.64	146.3	.728	1.91
400	6.80	34.15	26.80	131.7	.867	0.90
500	6.08	34.27	26.99	114.5	.990	0.48

STATION 103.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°25'N 119°52'W; June 12, 1952; 1220 GCT; wire angle: 15°; sounding: 2200 fms; depth of observation: 684 m; weather: cloudy; sea: very rough; wind: 300°, force 7.

0	17.24	33.44	24.28	365.1	.000	5.77
10	17.27	33.43	24.27	366.8	.037	5.58
20	17.28	33.43	24.26	367.3	.073	5.49
30	16.75	33.44	24.40	355.0	.109	5.48
50	14.33	33.37	24.88	309.4	.176	6.00
75	14.19	33.26	24.82	315.4	.254	6.13
100	13.93	33.22	24.85	313.8	.333	5.96
150	10.08	33.34	25.66	236.5	.470	4.71
200	8.91	33.86	26.26	180.5	.574	3.69
250	8.24	34.02	26.49	159.4	.659	2.75
300	7.52	34.09	26.65	144.7	.735	1.95
400	6.63	34.21	26.87	125.0	.870	1.17
500	5.98	34.27	27.00	113.2	.989	0.56
600	5.53	34.31	27.09	105.7	1.099	0.26
700	(5.08)	(34.39)	(27.20)	(95.2)	(1.199)	

STATION 103.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°06'N 120°25'W; June 12, 1952; 0700 GCT; wire angle: 20°; sounding: 2000+ fms; depth of observation: 661 m; weather: partly cloudy; sea: very rough; wind: 350°, force 7.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.39	-	-	-	-	5.53
10	17.42	-	-	-	-	5.50
20	17.39	-	-	-	-	5.52
30	17.33	-	-	-	-	5.60
50	15.72	-	-	-	-	5.80
75	15.15	-	-	-	-	5.78
100	14.68	-	-	-	-	5.73
150	11.20	-	-	-	-	4.91
200	9.40	-	-	-	-	3.70
250	8.36	-	-	-	-	2.92
300	7.60	-	-	-	-	2.38
400	6.97	-	-	-	-	0.87
500	6.39	-	-	-	-	0.48
600	5.58	-	-	-	-	0.42

STATION 107.32 (Interpolated Values at Standard Depths)

CREST: 30°26'N 116°10'W; June 21, 1952; 2027 GCT; wire angle: 3°; sounding: 200 fms; depth of observation: 240 m; weather: overcast; sea: moderate; wind: 330°, force 1.

0	13.20	33.55	25.25	272.8	.000	6.19
10	12.50	33.55	25.39	259.9	.027	5.95
20	11.63	33.47	25.49	250.4	.052	4.99
30	10.90	33.42	25.58	241.7	.077	4.39
50	9.79	33.67	25.97	205.4	.121	3.48
75	9.67	33.87	26.15	189.2	.171	2.65
100	9.50	33.99	26.27	178.2	.217	2.06
150	9.25	34.14	26.43	164.1	.302	1.55
200	9.03	34.26	26.55	152.8	.382	1.42
250	(8.49)	(34.29)	(26.66)	(143.2)	(.456)	(1.01)

STATION 107.35 (Interpolated Values at Standard Depths)

CREST: 30°16'N 116°22'W; June 21, 1952; 1803 GCT; wire angle: 12°; sounding: 1000 fms; depth of observation: 555 m; weather: overcast; sea: moderate; wind: 330°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.90	33.33	24.51	343.6	.000	5.70
10	15.79	33.33	24.53	341.5	.034	5.83
20	15.51	33.33	24.59	335.9	.068	5.82
30	14.10	33.34	24.91	306.5	.100	6.22
50	12.95	33.38	25.17	281.8	.159	6.05
75	10.34	33.26	25.56	245.1	.225	4.75
100	9.91	33.66	25.94	209.1	.282	3.38
150	8.80	33.87	26.29	177.2	.378	3.20
200	8.52	34.06	26.48	159.8	.463	2.42
250	8.34	34.18	26.60	149.1	.540	1.52
300	7.93	34.26	26.72	138.0	.612	0.90
400	7.10	34.31	26.88	124.0	.743	0.53
500	6.32	34.33	27.00	113.3	.861	0.40

STATION 107.40 (Interpolated Values at Standard Depths)

CREST: 30°08'N 116°42'W; June 21, 1952; 1454 GCT; wire angle: 26°; sounding: 1500 fms; depth of observation: 562 m; weather: overcast; sea: rough; wind: 330°, force 4.

0	16.14	33.28	24.41	352.4	.000	5.86
10	16.14	33.28	24.41	352.7	.035	5.85
20	16.12	33.28	24.42	352.6	.071	6.03
30	16.11	33.28	24.42	352.6	.106	5.96
50	14.00	33.29	24.89	308.7	.172	5.70
75	12.03	33.21	25.22	277.9	.245	5.85
100	10.51	33.35	25.60	241.8	.310	4.35
150	9.39	33.91	26.22	183.3	.416	2.94
200	8.69	34.03	26.43	164.6	.503	2.57
250	8.00	34.10	26.59	150.0	.582	2.21
300	7.48	34.19	26.73	136.7	.654	1.35
400	6.76	34.29	26.91	120.8	.783	0.64
500	6.20	34.29	26.99	114.6	.900	0.51

STATION 107.50 (Interpolated Values at Standard Depths)

CREST: 29°50'N 117°24'W; June 21, 1952; 0921 GCT; wire angle: 8°; sounding: 1350 fms; depth of observation: 577 m; weather: overcast; sea: rough; wind: 330°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.32	33.35	24.43	351.2	.000	5.60
10	16.32	33.35	24.43	351.5	.035	5.61
20	16.34	33.33	24.41	353.7	.070	5.95
30	16.33	33.36	24.43	351.6	.106	6.76
50	15.00	33.26	24.65	331.2	.174	6.28
75	12.25	33.19	25.16	283.4	.251	6.62
100	10.30	33.38	25.66	236.1	.316	4.85
150	9.12	33.80	26.18	187.2	.422	3.62
200	8.38	34.00	26.45	162.1	.509	3.05
250	8.05	34.10	26.58	150.7	.587	2.43
300	7.46	34.15	26.71	139.4	.660	1.69
400	6.70	34.23	26.87	124.4	.791	0.84
500	6.03	34.26	26.99	114.6	.911	0.69

STATION 107.60 (Interpolated Values at Standard Depths)

CREST: 29°33'N 118°04'W; June 21, 1952; 0343 GCT; wire angle: 29°; sounding: 2000+ fms; depth of observation: 530 m; weather: cloudy; sea: rough; wind: 320°, force 3.

0	16.56	33.33	24.36	357.9	.000	5.61
10	16.55	33.33	24.36	358.0	.036	6.25
20	16.51	33.40	24.42	352.3	.071	5.57
30	16.13	33.32	24.45	350.1	.106	5.45
50	14.05	33.17	24.78	318.5	.173	6.22
75	13.30	33.15	24.92	306.0	.251	6.94
100	11.11	33.13	25.32	268.2	.323	5.90
150	9.42	33.51	25.91	213.3	.444	4.20
200	8.57	33.92	26.36	170.9	.540	3.48
250	7.93	34.04	26.55	153.4	.621	2.61
300	7.50	34.09	26.65	144.4	.695	2.31
400	6.82	34.20	26.83	128.3	.831	1.15
500	6.00	34.25	26.98	115.0	.953	0.50

STATION 107.70 (Interpolated Values at Standard Depths)

CREST: 29°14'N 118°44'W; June 20, 1952; 2207 GCT; wire angle: 10°; sounding: 2000+ fms; depth of observation: 623 m; weather: overcast; sea: rough; wind: 330°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.33	33.54	24.34	359.8	.000	5.60
10	17.32	33.55	24.35	359.2	.036	5.60
20	17.21	33.53	24.36	358.4	.072	5.35
30	17.20	33.54	24.37	357.8	.108	5.94
50	16.05	33.38	24.51	344.6	.178	6.05
75	15.06	33.38	24.73	324.3	.262	6.50
100	13.92	33.27	24.89	309.9	.341	6.14
150	10.19	33.29	25.61	242.0	.479	4.75
200	9.00	33.83	26.22	184.1	.585	3.75
250	8.40	34.04	26.48	160.3	.671	2.89
300	7.53	34.10	26.66	144.0	.747	3.65
400	6.69	34.21	26.86	125.8	.882	2.08
500	5.94	34.25	26.99	114.2	1.002	1.38
600	5.39	34.31	27.10	103.9	1.111	0.54

STATION 107.80 (Interpolated Values at Standard Depths)

CREST: 28°54'N 119°22'W; June 20, 1952; 1641 GCT; wire angle: 14°; sounding: 2000 fms; depth of observation: 577 m; weather: overcast; sea: rough; wind: 330°, force 4.

0	17.19	33.44	24.29	363.9	.000	5.59
10	17.18	33.40	24.27	366.9	.037	5.76
20	17.18	33.43	24.29	365.0	.073	5.61
30	17.18	33.44	24.30	364.6	.110	5.86
50	15.51	33.33	24.59	336.7	.180	6.22
75	15.50	33.46	24.70	327.7	.263	6.09
100	14.51	33.40	24.86	312.2	.343	5.87
150	10.41	33.32	25.59	243.4	.482	5.40
200	8.82	33.77	26.20	185.8	.589	3.78
250	8.21	33.95	26.44	164.2	.676	3.24
300	7.62	34.02	26.58	151.3	.755	2.35
400	6.51	34.11	26.81	130.7	.896	1.17
500	6.02	34.21	26.95	118.2	1.021	0.63

STATION 110.33 (Interpolated Values at Standard Depths)

CREST: 29°50'N 115°52'W; June 19, 1952; 0030 GCT; wire angle: 6°; sounding: 44 fms; depth of observation: 50 m; weather: partly cloudy; sea: moderate; wind: 310°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.52	33.35	25.03	293.6	.000	6.11
10	13.30	33.33	25.06	291.1	.029	6.17
20	12.34	33.39	25.30	269.0	.057	5.80
30	11.83	33.49	25.47	252.7	.083	5.03
50	10.74	33.58	25.74	227.6	.131	3.76

STATION 110.35 (Interpolated Values at Standard Depths)

CREST: 29°46'N 116°00'W; June 19, 1952; 0200, 0229 GCT; wire angle: 35°, 64°; sounding: 600 fms; depth of observation: 103, 317 m; weather: partly cloudy; sea: moderate; wind: 310°, force 4.

0	16.58	33.35	24.37	356.9	.000	5.76
10	16.58	33.35	24.37	357.2	.036	6.31
20	16.55	33.31	24.34	359.8	.072	5.67
30	16.50	33.35	24.39	356.0	.107	5.68
50	13.00	33.28	25.08	290.1	.172	6.30
75	10.21	33.57	25.82	220.1	.236	3.75
100	9.72	33.80	26.08	195.7	.288	3.15
150	9.09	33.94	26.30	176.4	.381	2.96
200	8.73	34.15	26.52	156.3	.464	1.98
250	8.34	34.25	26.65	143.9	.539	1.33
300	7.98	34.28	26.73	137.2	.609	0.96

STATION 110.40 (Interpolated Values at Standard Depths)

CREST: 29°36'N 116°20'W; June 19, 1952; 0538 GCT; wire angle: 15°; sounding: 1360 fms; depth of observation: 437 m; weather: overcast; sea: moderate; wind: 320°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.73	33.37	24.35	358.8	.000	5.66
10	16.74	33.37	24.35	359.3	.036	5.81
20	16.73	33.35	24.33	360.8	.072	5.90
30	16.73	33.35	24.33	361.1	.108	5.78
50	14.63	33.21	24.69	327.2	.177	6.17
75	12.30	33.21	25.16	282.8	.253	5.85
100	10.26	33.42	25.70	232.5	.318	4.45
150	9.40	33.91	26.22	183.5	.422	3.04
200	8.88	34.09	26.45	163.0	.508	2.35
250	8.55	34.22	26.60	149.3	.586	1.84
300	8.17	34.24	26.67	143.0	.659	1.80
400	7.38	34.31	26.84	128.0	.795	1.20

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°17'N 117°00'W; June 19, 1952; 1120, 1146 GCT; wire angle: 23°, missing; sounding: 1400 fms; depth of observation: 270, 1092 m; weather: overcast; sea: moderate; wind: 330°, force 4.

0	16.76	33.39	24.36	358.0	.000	5.71
10	16.77	33.42	24.38	356.3	.036	6.01
20	16.77	33.42	24.38	356.6	.071	5.84
30	16.76	33.41	24.37	357.4	.107	5.99
50	13.57	33.39	25.05	292.9	.172	6.40
75	11.30	33.55	25.61	240.0	.239	4.75
100	10.36	33.74	25.93	210.5	.295	4.22
150	9.95	34.08	26.26	179.7	.393	3.60
200	10.08	34.37	26.47	161.5	.478	1.13
250	9.47	34.42	26.61	148.9	.556	0.86
300	8.68	34.39	26.71	139.6	.628	0.74
400	7.47	34.35	26.86	126.3	.761	0.56
500	6.51	34.35	26.99	114.4	.881	0.38
600	5.83	34.35	27.08	106.6	.991	0.30
700	5.28	34.39	27.18	97.8	1.094	0.30
800	4.80	34.42	27.26	90.6	1.188	0.34
1000	4.08	34.48	27.39	79.2	1.358	0.66

STATION 110.60 (Interpolated Values at Standard Depths)

CREST: 28°54'N 117°38'W; June 19, 1952; 1707 GCT; wire angle: 24°; sounding: 2200 fms; depth of observation: 525 m; weather: overcast; sea: rough; wind: 330°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 S$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.08	33.26	24.41	352.6	.000	5.83
10	16.08	33.28	24.43	351.4	.035	6.14
20	16.06	33.28	24.43	351.3	.070	6.01
30	16.05	33.28	24.44	351.3	.105	5.88
50	15.98	33.28	24.45	350.4	.176	6.45
75	15.15	33.35	24.69	328.4	.260	6.30
100	13.93	33.41	24.99	299.8	.339	5.62
150	10.28	33.43	25.70	233.1	.472	4.11
200	8.93	33.95	26.33	174.1	.574	3.48
250	8.14	34.05	26.53	155.7	.657	2.73
300	7.67	34.10	26.64	146.0	.732	1.91
400	7.06	34.27	26.86	126.4	.868	0.80
500	6.23	34.29	26.98	115.0	.989	0.48

STATION 110.70 (Interpolated Values at Standard Depths)

CREST: 28°36'N 118°18'W; June 19, 1952; 2209 GCT; wire angle: 15°; sounding: 2000+ fms; depth of observation: 1168 m; weather: cloudy; sea: rough; wind: 345°, force 4.

0	17.41	33.51	24.30	363.8	.000	5.69
10	17.52	33.51	24.27	366.6	.037	5.55
20	17.45	33.51	24.29	365.3	.073	5.57
30	17.23	33.51	24.34	360.7	.109	5.65
50	15.95	33.53	24.65	331.5	.179	5.80
75	15.30	33.49	24.76	321.3	.260	5.75
100	14.00	33.35	24.93	305.6	.339	5.69
150	9.90	33.46	25.79	224.7	.471	4.39
200	8.71	33.85	26.28	178.2	.572	3.60
250	8.25	34.05	26.51	157.4	.656	2.83
300	7.58	34.10	26.65	144.8	.731	1.99
400	6.80	34.20	26.84	128.0	.868	0.95
500	6.03	34.23	26.96	116.8	.990	0.49
600	5.51	34.29	27.07	106.9	1.102	0.34
700	5.08	34.39	27.20	95.2	1.203	0.37
800	4.70	34.43	27.28	88.6	1.295	0.42
1000	4.04	34.43	27.35	82.4	1.466	0.60

STATION 110.80 (Interpolated Values at Standard Depths)

CREST: 28°15'N 118°58'W; June 20, 1952; 0342 GCT; wire angle: 10°; sounding: 2000+ fms; depth of observation: 616 m; weather: overcast; sea: rough; wind: 340°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.48	33.55	24.31	362.5	.000	5.50
10	17.50	33.55	24.30	363.3	.036	5.53
20	17.48	33.57	24.32	361.7	.073	5.69
30	17.48	33.57	24.32	362.0	.109	5.70
50	17.44	33.56	24.33	362.4	.181	5.65
75	15.33	33.37	24.66	330.7	.268	5.93
100	14.78	33.39	24.80	318.5	.349	5.91
150	10.65	33.49	25.68	234.9	.487	4.68
200	9.51	33.86	26.16	189.9	.593	3.52
250	8.67	34.05	26.45	163.7	.682	2.72
300	8.22	34.21	26.64	146.0	.759	1.77
400	7.40	34.29	26.82	129.7	.897	0.86
500	6.39	34.34	27.00	113.5	1.019	0.53
600	5.78	34.36	27.10	105.2	1.128	0.40

STATION 110.90 (Interpolated Values at Standard Depths)

CREST: 27°57'N 119°36'W; June 20, 1952; 0900 GCT; wire angle: 18°; sounding: 2200 fms; depth of observation: 1125 m; weather: overcast; sea: rough; wind: 330°, force 4.

0	17.69	33.57	24.27	365.9	.000	5.45
10	17.68	33.57	24.28	365.9	.037	5.65
20	17.71	33.57	24.27	366.9	.073	5.59
30	17.71	33.57	24.27	367.3	.110	5.49
50	17.68	33.56	24.27	367.9	.183	5.45
75	16.03	33.45	24.57	339.8	.272	6.02
100	14.50	33.42	24.88	310.6	.353	5.62
150	10.40	33.43	25.68	235.1	.490	4.52
200	9.62	33.88	26.16	190.2	.596	3.43
250	9.24	34.19	26.47	162.2	.684	2.00
300	8.60	34.23	26.60	150.2	.762	1.43
400	7.51	34.27	26.79	132.8	.904	0.81
500	6.72	34.33	26.95	118.7	1.029	0.43
600	5.94	34.34	27.06	108.8	1.143	0.37
700	5.25	34.36	27.16	99.6	1.247	0.36
800	4.78	34.38	27.23	93.3	1.344	0.40
1000	4.10	34.48	27.38	79.5	1.517	0.65

STATION 113.30 (Interpolated Values at Standard Depths)

CREST: 29°25'N 115°20'W; June 18, 1952; 1924 GCT; wire angle: missing; sounding: 35 fms; depth of observation: 50 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)
0	13.09	33.62	25.33	265.6	.000	6.21
10	11.74	33.71	25.66	234.4	.025	3.98
20	10.34	33.86	26.02	199.7	.047	2.24
30	10.24	33.95	26.11	191.6	.066	1.70
50	10.24	33.96	26.12	191.3	.105	

STATION 113.40 (Interpolated Values at Standard Depths)

CREST: 29°02'N 115°58'W; June 18, 1952; 1424 GCT; wire angle: 18°; sounding: 1000 fms; depth of observation: 563 m; weather: overcast; sea: rough; wind: 340°, force 4.

0	16.70	-	-	-	-	5.54
10	16.70	-	-	-	-	5.77
20	16.69	-	-	-	-	5.94
30	16.64	-	-	-	-	6.07
50	16.30	-	-	-	-	5.92
75	12.30	-	-	-	-	5.45
100	10.72	-	-	-	-	3.81
150	10.01	-	-	-	-	3.07
200	9.29	-	-	-	-	2.24
250	9.11	-	-	-	-	1.54
300	9.10	-	-	-	-	0.73
400	8.11	-	-	-	-	0.31
500	7.08	-	-	-	-	0.35

STATION 113.50 (Interpolated Values at Standard Depths)

CREST: 28°42'N 116°38'W; June 18, 1952; 0845 GCT; wire angle: 11°; sounding: 2000 fms; depth of observation: 569 m; weather: overcast; sea: moderate; wind: 330°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.66	33.35	24.35	358.7	.000	5.90
10	16.66	33.39	24.38	356.1	.036	5.55
20	16.60	33.39	24.39	355.0	.071	5.78
30	15.90	33.39	24.55	340.1	.106	5.89
50	15.21	33.40	24.71	325.3	.173	5.79
75	12.90	33.21	25.05	294.0	.250	5.80
100	10.95	33.37	25.54	247.8	.318	4.46
150	10.21	34.06	26.20	185.5	.426	2.17
200	10.09	34.40	26.49	159.5	.512	1.21
250	10.16	34.52	26.57	152.9	.590	0.81
300	9.35	34.50	26.69	142.1	.664	1.02
400	8.22	34.46	26.84	129.3	.800	0.33
500	7.16	34.44	26.98	116.8	.923	0.23

STATION 113.60 (Interpolated Values at Standard Depths)

CREST: 28°22'N 117°17'W; June 18, 1952; 0301 GCT; wire angle: 22°; sounding: 2050 fms; depth of observation: 525 m; weather: cloudy; sea: moderate; wind: 330°, force 3.

0	17.00	33.37	24.29	364.8	.000	5.61
10	16.95	33.37	24.30	364.0	.036	5.62
20	16.88	33.35	24.30	364.1	.073	5.68
30	16.74	33.37	24.35	360.0	.109	5.69
50	16.00	33.38	24.52	343.6	.179	5.78
75	15.20	33.52	24.81	317.0	.262	5.73
100	11.65	33.31	25.36	264.3	.335	5.19
150	9.79	33.74	26.02	202.2	.451	3.64
200	8.90	34.01	26.38	169.2	.544	2.98
250	8.22	34.07	26.53	155.5	.625	2.55
300	7.65	34.11	26.65	145.0	.700	1.64
400	6.98	34.23	26.84	128.3	.837	0.72
500	6.31	34.32	27.00	113.9	.958	0.46

STATION 113.70 (Interpolated Values at Standard Depths)

CREST: 28°02'N 117°55'W; June 17, 1952; 2133 GCT; wire angle: 8°; sounding: 2000 fms; depth of observation: 585 m; weather: cloudy; sea: rough; wind: 330°, force missing.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.88	33.55	24.21	371.7	.000	5.61
10	17.82	33.58	24.25	368.4	.037	5.55
20	17.76	33.58	24.26	367.4	.074	5.58
30	17.65	33.56	24.28	366.6	.110	6.01
50	16.74	33.53	24.47	348.8	.182	5.93
75	16.54	33.55	24.53	343.7	.269	5.75
100	16.23	33.55	24.60	337.6	.354	5.64
150	11.63	33.41	25.44	257.8	.503	4.58
200	9.86	33.96	26.18	188.1	.614	2.83
250	8.51	34.03	26.46	162.7	.702	2.89
300	7.85	34.09	26.60	149.4	.780	1.98
400	7.00	34.23	26.83	128.5	.919	0.78
500	6.21	34.30	26.99	114.0	1.040	0.49
600	(5.69)	(34.37)	(27.12)	103.3	(1.149)	

STATION 117.26 (Interpolated Values at Standard Depths)

CREST: 28°55'N 114°42'W; June 16, 1952; 1641 GCT; wire angle: 0°; sounding: 44 fms; depth of observation: 50 m; weather: overcast; sea: moderate; wind: 330°, force 2.

0	14.35	33.51	24.98	298.2	.000	5.95
10	11.26	33.69	25.73	227.6	.026	3.61
20	10.54	33.78	25.93	208.9	.048	2.69
30	10.09	33.80	26.02	200.2	.069	2.57
50	9.72	33.95	26.20	183.6	.107	1.98

STATION 117.30 (Interpolated Values at Standard Depths)

CREST: 28°48'N 114°56'W; June 16, 1952; 1838 GCT; wire angle: 5°; sounding: 57 fms; depth of observation: 74 m; weather: overcast; sea: moderate; wind: 330°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.62	33.60	25.40	258.2	.000	6.34
10	12.48	33.60	25.43	255.9	.026	6.02
20	12.10	33.58	25.49	250.7	.051	5.91
30	11.92	33.58	25.52	247.7	.076	5.62
50	11.52	33.58	25.60	241.0	.125	5.06
75	(9.59)	(33.86)	(26.15)	(188.7)	(.179)	(3.37)

STATION 117.40 (Interpolated Values at Standard Depths)

CREST: 28°28'N 115°37'W; June 16, 1952; 2341 GCT; wire angle: 10°; sounding: 550 fms; depth of observation: 588 m; weather: overcast; sea: moderate; wind: 330°, force 2.

0	15.11	33.49	24.81	315.2	.000	5.82
10	14.32	33.48	24.97	300.1	.031	6.10
20	12.95	33.39	25.18	280.3	.060	6.01
30	12.20	33.40	25.33	266.0	.087	5.80
50	11.88	33.50	25.47	253.3	.139	5.30
75	10.60	33.67	25.83	219.2	.198	4.36
100	9.79	33.81	26.08	196.1	.250	3.66
150	9.39	34.05	26.33	173.0	.342	2.29
200	8.80	34.23	26.57	151.4	.423	1.72
250	9.60	34.48	26.63	146.6	.498	0.43
300	8.88	34.42	26.70	140.5	.570	0.42
400	8.13	34.36	26.77	135.3	.708	0.51
500	7.00	34.33	26.91	122.6	.837	0.51
600	(6.50)	(34.39)	(27.03)	(112.7)	(.954)	

STATION 117.50 (Interpolated Values at Standard Depths)

CREST: 28°08'N 116°15'W; June 17, 1952; 0502 GCT; wire angle: 0°; sounding: 2000+ fms; depth of observation: 582 m; weather: overcast; sea: moderate; wind: 240°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.29	33.53	24.80	316.1	.000	6.13
10	13.25	33.44	25.16	282.1	.030	6.00
20	12.35	33.42	25.32	267.0	.057	5.58
30	12.28	33.48	25.38	261.5	.084	5.36
50	10.60	33.49	25.69	231.9	.133	4.98
75	10.25	33.78	25.98	205.2	.188	2.43
100	9.94	33.99	26.19	185.2	.237	2.51
150	10.34	34.35	26.41	166.3	.324	1.12
200	10.27	34.51	26.54	154.4	.405	0.37
250	9.55	34.51	26.67	143.6	.479	0.34
300	8.90	34.48	26.75	136.4	.549	0.32
400	7.65	34.43	26.90	123.0	.679	0.30
500	6.77	34.42	27.01	112.8	.797	0.23
600	(6.16)	(34.42)	(27.10)	(105.8)	(.906)	

STATION 117.60 (Interpolated Values at Standard Depths)

CREST: 27°48'N 116°54'W; June 17, 1952; 1037 GCT; wire angle: 5°; sounding: 2000 fms; depth of observation: 545 m; weather: overcast; sea: moderate; wind: 340°, force 3.

0	15.46	33.35	24.62	332.8	.000	5.87
10	15.41	33.35	24.63	332.0	.033	8.95
20	15.38	33.33	24.62	333.1	.066	5.93
30	15.30	33.33	24.64	331.7	.100	5.98
50	14.76	33.37	24.79	318.2	.165	6.19
75	11.10	33.35	25.49	251.3	.236	3.80
100	10.67	33.71	25.85	217.9	.295	2.65
150	10.00	34.11	26.28	178.3	.394	1.18
200	9.70	34.32	26.49	159.0	.478	1.38
250	8.30	34.20	26.62	147.0	.554	0.73
300	7.80	34.22	26.71	139.0	.626	0.71
400	6.87	34.30	26.91	121.6	.756	0.53
500	6.33	34.38	27.04	109.7	.872	0.35

STATION 117.70 (Interpolated Values at Standard Depths)

CREST: 27°24'N 117°38'W; June 17, 1952; 1601 GCT; wire angle: 9°; sounding: 2000 fms; depth of observation: 586 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	17.19	33.39	24.26	367.6	.000	5.65
10	17.20	33.39	24.25	368.1	.037	5.94
20	17.20	33.39	24.25	368.4	.074	5.77
30	17.17	33.39	24.26	368.0	.110	5.64
50	16.09	33.31	24.45	350.6	.182	6.41
75	15.30	33.49	24.76	321.3	.266	5.94
100	12.25	33.31	25.25	275.2	.341	5.73
150	10.64	33.87	25.98	206.7	.461	3.28
200	9.97	34.12	26.29	178.1	.558	2.15
250	9.43	34.34	26.55	154.2	.641	1.22
300	8.80	34.37	26.68	143.0	.715	0.74
400	7.43	34.34	26.86	126.5	.850	0.60
500	6.30	34.34	27.01	112.3	.969	0.39
600	(5.68)	(34.34)	(27.09)	(105.4)	(1.078)	

STATION 120.25 (Interpolated Values at Standard Depths)

CREST: 28°23'N 114°15'W; June 16, 1952; 1203 GCT; wire angle: 0°; sounding: 30 fms; depth of observation: 30 m; weather: overcast; sea: moderate; wind: 300°, force 2.

0	16.34	33.55	24.58	337.1	.000	6.00
10	16.36	33.55	24.57	337.8	.034	6.00
20	11.70	33.46	25.47	252.4	.063	4.85
30	11.36	33.51	25.57	243.0	.088	4.55

STATION 120.30 (Interpolated Values at Standard Depths)

CREST: 28°13'N 114°35'W; June 16, 1952; 0943 GCT; wire angle: 8°; sounding: 50 fms; depth of observation: 74 m; weather: partly 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	14.80	33.57	24.93	303.0	.000	6.00
10	14.82	33.55	24.91	305.1	.030	6.02
20	14.78	33.55	24.92	304.6	.061	5.95
30	13.50	33.48	25.14	284.5	.090	5.64
50	10.80	33.48	25.65	236.0	.142	4.00
75	(10.08)	(33.76)	(25.99)	(203.9)	(.197)	(2.70)

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°03'N 114°54'W; June 16, 1952; 0703 GCT; wire angle: 15°; sounding: 47 fms; depth of observation: 72 m; weather: clear; sea: moderate; wind: 340°, force 4.

0	15.68	33.58	24.75	320.6	.000	6.31
10	15.68	33.56	24.73	322.4	.032	6.30
20	15.22	33.57	24.84	312.2	.064	6.29
30	14.90	33.55	24.90	307.3	.095	6.09
50	11.20	33.48	25.58	242.8	.150	4.50
75	(10.41)	(33.79)	(25.96)	(207.1)	(.206)	(2.55)

STATION 120.45 (Interpolated Values at Standard Depths)

CREST: 27°43'N 115°33'W; June 15, 1952; 1755 GCT; wire angle: 45°; sounding: 1180 fms; depth of observation: 826 m; weather: cloudy; sea: very 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	16.11	33.49	24.58	336.4	.000	5.74
10	16.07	33.53	24.62	332.9	.033	5.73
20	15.91	33.53	24.66	329.8	.067	5.75
30	13.80	33.47	25.07	291.1	.098	5.45
50	11.28	33.53	25.60	240.5	.151	4.11
75	9.86	33.68	25.97	206.3	.207	3.62
100	10.06	33.93	26.13	191.6	.256	2.76
150	10.52	34.41	26.42	164.9	.346	1.18
200	9.82	34.42	26.55	153.6	.425	0.92
250	9.47	34.46	26.64	146.0	.500	0.59
300	9.01	34.51	26.75	135.9	.570	0.39
400	8.07	34.48	26.88	125.5	.701	0.23
500	6.93	34.45	27.02	112.8	.820	0.24
600	6.18	34.45	27.12	103.9	.929	0.24
700	5.52	34.45	27.20	96.4	1.029	0.26
800	5.01	34.45	27.26	91.0	1.123	0.31

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°33'N 115°52'W; June 15, 1952; 1357 GCT; wire angle: 32°; sounding: 2200 fms; depth of observation: 592 m; weather: cloudy; sea: very rough; wind: 340°, force 6.

0	17.24	33.55	24.37	357.0	.000	5.62
10	17.25	33.53	24.35	359.0	.036	5.64
20	17.25	33.53	24.35	359.4	.072	5.65
30	16.00	33.48	24.60	335.7	.106	5.93
50	12.40	33.49	25.36	263.5	.166	5.00
75	10.80	33.80	25.90	213.0	.226	2.95
100	10.08	34.01	26.19	186.0	.276	2.40
150	9.69	34.29	26.47	160.0	.362	2.28
200	9.12	34.35	26.61	147.5	.439	0.86
250	8.72	34.42	26.73	137.1	.510	0.61
300	7.94	34.38	26.82	129.3	.577	0.59
400	7.32	34.43	26.95	118.2	.701	0.25
500	6.50	34.45	27.07	106.8	.813	0.19
600	(5.82)	(34.45)	(27.16)	(99.1)	(.916)	(0.29)

STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°12'N 116°30'W; June 15, 1952; 0725 GCT; wire angle: 31°; sounding: 2200 fms; depth of observation: 882 m; weather: clear; sea: very rough; wind: 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.86	33.46	24.39	355.1	.000	5.61
10	16.85	33.44	24.37	356.6	.036	5.76
20	16.85	33.46	24.39	355.5	.071	5.83
30	16.80	33.46	24.40	354.6	.107	5.87
50	15.32	33.42	24.71	326.1	.175	5.95
75	13.50	33.36	25.04	294.4	.252	5.83
100	11.50	33.45	25.50	251.4	.321	4.73
150	9.74	34.00	26.24	182.2	.429	2.78
200	9.71	34.31	26.48	159.9	.515	1.35
250	9.26	34.39	26.62	147.8	.591	0.69
300	8.82	34.42	26.71	139.6	.663	0.40
400	7.68	34.42	26.89	124.2	.795	0.32
500	6.67	34.42	27.03	111.4	.913	0.50
600	5.82	34.44	27.15	99.8	1.019	0.53
700	5.23	34.47	27.25	91.2	1.114	0.48
800	4.72	34.47	27.31	85.9	1.203	

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°52'N 117°10'W; June 15, 1952; 0113 GCT; wire angle: 28°; sounding: 2200 fms; depth of observation: 566 m; weather: clear; sea: very rough; wind: 330°, force 5.

0	18.14	33.62	24.20	372.7	.000	5.48
10	18.17	33.60	24.18	375.1	.037	5.53
20	18.18	33.60	24.18	375.7	.075	5.53
30	18.18	33.60	24.18	376.0	.113	5.54
50	17.90	33.60	24.25	370.1	.187	5.95
75	14.85	33.42	24.81	317.0	.273	5.93
100	12.60	33.43	25.28	272.8	.347	5.16
150	10.51	33.88	26.01	203.8	.466	3.19
200	9.13	34.04	26.37	170.6	.559	2.70
250	8.42	34.16	26.57	151.8	.640	2.11
300	7.98	34.21	26.68	142.4	.714	1.46
400	7.03	34.30	26.88	123.8	.847	0.62
500	6.22	34.35	27.03	110.5	.964	0.38

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°33'N 117°48'W; June 14, 1952; 1753, 1936 GCT; wire angle: 30°, 34°; sounding: 2150 fms; depth of observation: 530, 1148 m; weather: partly cloudy; sea: very rough; wind: 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.88	33.45	24.14	379.0	.000	5.22
10	17.88	33.46	24.14	378.6	.038	5.94
20	17.86	33.46	24.15	378.4	.076	5.89
30	17.10	33.47	24.34	360.6	.113	5.84
50	15.89	33.49	24.63	333.1	.182	5.82
75	14.87	33.46	24.83	314.5	.263	5.78
100	12.59	33.33	25.20	280.0	.337	5.32
150	10.78	33.91	25.99	206.1	.459	2.83
200	10.06	34.12	26.28	179.6	.555	2.20
250	8.81	34.16	26.51	157.7	.640	2.04
300	8.29	34.22	26.64	146.3	.716	1.48
400	7.16	34.25	26.83	129.3	.853	0.80
500	6.32	34.34	27.01	112.5	.974	0.33
600	5.79	34.37	27.10	104.6	1.083	0.34
700	5.22	34.41	27.20	95.5	1.183	0.34
800	4.79	34.45	27.29	88.2	1.275	0.38
1000	4.00	34.50	27.41	76.8	1.440	0.63

STATION 120.90 (Interpolated Values at Standard Depths)

CREST: 26°10'N 118°30'W; June 14, 1952; 1205 GCT; wire angle: 23°; sounding: 2200 fms; depth of observation: 599 m; weather: partly cloudy; sea: rough; wind: 340°, force 5.

0	18.52	33.71	24.18	375.1	.000	5.38
10	18.54	33.71	24.17	375.9	.038	5.29
20	18.53	33.69	24.16	377.4	.075	5.33
30	18.52	33.68	24.15	378.2	.113	5.43
50	17.57	33.73	24.42	353.0	.186	5.34
75	15.96	33.60	24.70	327.3	.271	5.82
100	15.42	33.69	24.89	309.9	.351	5.49
150	10.76	33.60	25.75	228.6	.485	4.39
200	9.92	33.97	26.18	188.4	.590	2.98
250	9.18	34.22	26.50	159.0	.677	1.94
300	8.41	34.21	26.61	148.8	.754	1.82
400	7.46	34.35	26.86	126.2	.891	0.65
500	6.49	34.38	27.02	111.9	1.010	0.31
600	(5.78)	(34.37)	(27.10)	(104.5)	(1.118)	(0.33)

STATION 123.37 (Interpolated Values at Standard Depths)

CREST: 27°23'N 114°42'W; June 13, 1952; 0539 GCT; wire angle: 0°; sounding: 42 fms; depth of observation: 50 m; weather: partly cloudy; rough; wind: 330°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 S$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.28	33.96	25.75	225.5	.000	4.46
10	12.29	33.96	25.75	225.9	.023	4.51
20	11.90	34.06	25.90	211.7	.044	3.90
30	11.24	34.16	26.10	193.0	.065	2.51

STATION 123.40 (Interpolated Values at Standard Depths)

CREST: 27°17'N 114°51'W; June 13, 1952; 0728 GCT; wire angle: 38°; sounding: 270 fms; depth of observation: 326 m; weather: clear; sea: rough; wind: 340°, force 4.

0	13.72	33.53	25.13	284.3	.000	5.92
10	13.62	33.53	25.15	282.6	.028	5.92
20	12.80	33.57	25.35	264.3	.056	5.12
30	11.70	33.83	25.76	225.4	.080	2.97
50	10.92	34.12	26.12	190.8	.122	1.78
75	10.89	34.23	26.22	182.8	.168	1.45
100	10.91	34.33	26.29	176.3	.213	1.08
150	10.95	34.60	26.49	158.3	.297	0.31
200	10.64	34.57	26.52	156.3	.376	0.32
250	10.05	34.56	26.62	148.1	.452	0.35
300	9.47	34.54	26.70	141.1	.524	0.38

STATION 123.50 (Interpolated Values at Standard Depths)

CREST: 26°55'N 115°30'W; June 13, 1952; 1405 GCT; wire angle: 36°; sounding: 2200 fms; depth of observation: 871 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	17.09	33.39	24.28	365.3	.000	5.59
10	17.10	33.36	24.25	368.0	.037	5.59
20	17.06	33.37	24.27	366.7	.073	5.63
30	17.05	33.33	24.24	369.7	.110	5.74
50	15.50	33.26	24.54	341.6	.181	5.88
75	14.50	33.39	24.86	312.1	.263	5.87
100	12.30	33.38	25.30	270.9	.336	5.50
150	9.52	33.72	26.05	199.4	.454	3.68
200	9.55	34.14	26.38	169.8	.546	2.08
250	9.52	34.37	26.56	153.4	.627	0.90
300	8.91	34.40	26.68	142.5	.701	0.67
400	7.44	34.33	26.85	127.3	.836	0.58
500	6.80	34.38	26.98	116.1	.957	0.30
600	6.13	34.40	27.08	106.9	1.069	0.22
700	5.43	34.40	27.17	98.9	1.172	0.20
800	4.87	34.41	27.24	92.2	1.267	0.42

STATION 123.60 (Interpolated Values at Standard Depths)

CREST: 26°38'N 116°10'W; June 13, 1952; 2140 GCT; wire angle: 28°; sounding: 2200 fms; depth of observation: 551 m; weather: partly cloudy; sea: rough; wind: 340°, force 5.

0	17.42	33.39	24.20	372.8	.000	5.68
10	17.39	33.37	24.19	373.9	.037	5.58
20	17.33	33.37	24.21	372.8	.075	5.70
30	17.32	33.40	24.23	370.7	.112	5.84
50	17.28	33.68	24.46	350.0	.184	5.62
75	14.96	33.46	24.81	316.4	.267	5.95
100	13.40	33.63	25.27	273.3	.341	4.18
150	10.42	33.72	25.90	214.1	.463	3.39
200	9.93	34.26	26.41	167.2	.558	1.93
250	9.61	34.31	26.50	159.3	.640	1.18
300	8.81	34.35	26.66	144.6	.716	0.84
400	7.59	34.36	26.85	127.3	.852	0.62
500	6.69	34.35	26.97	116.8	.974	0.42

STATION 127.34 (Interpolated Values at Standard Depths)

CREST: 26°56'N 114.06'W; June 12, 1952; 0649, 0710 GCT; wire angle: 0°, missing; sounding: 40 fms; depth of observation: 20, 50 m; weather: partly cloudy; sea: moderate; wind: 320°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.15	33.71	25.38	260.1	.000	5.39
10	13.15	33.69	25.37	261.8	.026	5.55
20	13.09	33.71	25.40	259.5	.052	5.29
30	13.06	33.72	25.41	258.4	.078	5.20
50	11.79	33.71	25.65	236.3	.128	4.16

STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°40'N 114°31'W; June 12, 1952; 0300 GCT; wire angle: 40°; sounding: 1700 fms; depth of observation: 445 m; weather: partly cloudy; sea: high; wind: 320°, force 6.

0	16.89	33.51	24.42	352.1	.000	5.70
10	16.87	33.51	24.42	352.0	.035	5.85
20	16.87	33.57	24.47	347.9	.070	5.86
30	15.80	33.58	24.72	324.1	.104	5.66
50	11.61	33.65	25.63	237.5	.160	4.10
75	10.73	33.88	25.97	205.9	.215	2.92
100	10.54	34.09	26.17	187.7	.265	2.22
150	10.42	34.39	26.42	164.7	.353	1.20
200	10.30	34.57	26.58	150.5	.431	0.42
250	9.81	34.55	26.65	144.9	.505	0.38
300	9.08	34.51	26.74	137.0	.576	0.34
400	7.93	34.47	26.89	124.2	.706	0.22

STATION 127.50 (Interpolated Values at Standard Depths)

CREST: 26°24'N 115°08'W; June 11, 1952; 2059 GCT; wire angle: 30°; sounding: 1800 fms; depth of observation: 529 m; weather: partly cloudy; sea: rough; 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	17.81	33.46	24.16	376.6	.000	5.51
10	17.77	33.46	24.17	376.0	.038	5.57
20	17.73	33.46	24.18	375.4	.075	5.60
30	17.69	33.46	24.19	374.8	.113	5.51
50	16.50	33.51	24.51	345.0	.185	5.81
75	15.15	33.44	24.76	321.8	.268	5.80
100	13.45	33.46	25.13	286.8	.344	5.40
150	10.67	33.92	26.01	203.5	.467	2.62
200	9.11	34.09	26.41	166.6	.559	2.76
250	9.13	34.26	26.54	155.3	.640	1.45
300	8.68	34.30	26.64	146.3	.715	0.89
400	7.60	34.39	26.87	125.2	.851	0.43
500	6.72	34.40	27.01	113.6	.970	0.33

STATION 127.60 (Interpolated Values at Standard Depths)

CREST: 26°01'N 115°52'W; June 11, 1952; 1354 GCT; wire angle: 22°; sounding: 2200 fms; depth of observation: 589 m; weather: partly cloudy; sea: rough; wind: 320°, force 4.

0	18.03	33.63	24.24	369.4	.000	5.50
10	18.03	33.62	24.23	370.4	.037	5.48
20	18.01	33.62	24.23	370.3	.074	5.53
30	18.01	33.62	24.23	370.6	.111	5.47
50	16.46	33.48	24.49	346.3	.183	5.81
75	15.18	33.48	24.78	319.5	.266	5.80
100	13.42	33.50	25.17	283.2	.341	5.08
150	10.97	34.04	26.05	199.8	.462	2.34
200	10.94	34.32	26.28	179.8	.557	1.27
250	10.09	34.37	26.46	162.8	.643	1.05
300	9.68	34.42	26.57	153.3	.722	0.70
400	8.19	34.42	26.81	131.8	.864	0.34
500	7.01	34.40	26.97	117.6	.989	0.31
600	(6.06)	(34.40)	(27.09)	(106.0)	(1.101)	-

STATION 130.30 (Interpolated Values at Standard Depths)

CREST: 26°28'N 113°29'W; June 10, 1952; 1026 GCT; wire angle: 0°; sounding: 50 fms; depth of observation: 50 m; weather: clear; 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	13.72	33.66	25.23	274.9	.000	5.49
10	13.62	33.64	25.24	274.8	.028	5.44
20	13.44	33.64	25.27	271.8	.055	5.29
30	12.29	33.58	25.45	254.6	.081	4.54
50	11.20	33.82	25.84	218.2	.128	3.19

STATION 130.35 (Interpolated Values at Standard Depths)

CREST: 26°19'N 113°48'W; June 10, 1952; 1325 GCT; wire angle: 28°; sounding: 350 fms; depth of observation: 497 m; weather: partly cloudy; sea: rough; wind, 330°, force 5.

0	16.21	33.49	24.56	338.6	.000	-
10	16.20	33.48	24.55	339.4	.034	-
20	16.16	33.52	24.59	335.9	.068	-
30	14.54	33.61	25.02	295.6	.099	-
50	11.29	33.59	25.65	236.3	.152	-
75	11.35	33.83	25.82	220.2	.209	-
100	11.48	34.24	26.12	192.9	.261	-
150	11.30	34.58	26.41	165.9	.351	-
200	10.80	34.65	26.56	153.1	.431	-
250	10.13	34.60	26.64	146.5	.505	-
300	9.51	34.56	26.71	140.2	.577	-
400	8.51	34.57	26.88	125.6	.710	-
500	(7.41)	(34.47)	(26.96)	(118.2)	(.832)	-

STATION 130.40 (Interpolated Values at Standard Depths)

CREST: 26°09'N 114°05'W; June 10, 1952; 1655 GCT; wire angle: 28°; sounding: 1300 fms; depth of observation: 1054 m; weather: partly cloudy; sea: rough; 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.82	33.58	24.49	345.4	.000	5.70
10	16.80	33.58	24.49	345.3	.035	5.65
20	16.78	33.57	24.49	345.9	.069	5.68
30	16.72	33.57	24.50	344.9	.104	5.70
50	14.26	33.59	25.06	291.9	.167	5.51
75	11.23	33.71	25.75	227.0	.232	3.20
100	10.92	34.01	26.04	200.1	.286	2.42
150	10.38	34.29	26.35	171.4	.378	1.48
200	10.00	34.47	26.56	152.8	.459	0.73
250	9.24	34.43	26.65	144.5	.534	0.74
300	8.66	34.45	26.76	134.9	.604	0.50
400	7.63	34.47	26.93	119.7	.731	0.29
500	6.87	34.47	27.04	110.5	.846	0.30
600	6.19	34.47	27.13	102.5	.953	
700	5.60	34.47	27.21	96.0	1.052	
800	5.07	34.49	27.28	88.8	1.144	
1000	4.20	34.53	27.41	77.0	1.310	

STATION 130.50 (Interpolated Values at Standard Depths)

CREST: 25°49'N 114°46'W; June 10, 1952; 2358 GCT; wire angle: 33°; sounding: 2000+ fms; depth of observation: 490 m; weather: partly cloudy; sea: very rough; wind 330°, force 5.

0	17.44	33.49	24.27	366.0	.000	5.56
10	17.43	33.49	24.27	366.0	.037	5.56
20	17.41	33.51	24.30	364.4	.073	5.58
30	17.41	33.49	24.28	366.2	.110	5.61
50	16.12	33.59	24.66	330.8	.179	5.89
75	15.25	33.46	24.75	322.4	.261	5.91
100	13.40	33.46	25.14	285.8	.337	5.19
150	10.88	33.93	25.98	206.4	.460	2.86
200	9.93	34.25	26.40	167.9	.554	1.68
250	9.40	34.37	26.58	151.5	.633	1.03
300	9.03	34.43	26.69	142.1	.707	0.50
400	7.94	34.42	26.85	128.0	.842	0.36
500	(7.00)	(34.45)	(27.01)	(113.8)	(.963)	(0.26)

STATION 130.60 (Interpolated Values at Standard Depths)

CREST: 25°28'N 115°24'W; June 11, 1952; 0630 GCT; wire angle: 28°; sounding: 2200 fms; depth of observation: 1147 m; weather: partly cloudy; sea: very rough; wind: 330°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.07	33.69	24.27	365.9	.000	5.53
10	18.07	33.68	24.27	367.0	.037	5.45
20	18.06	33.71	24.29	364.9	.073	5.54
30	18.05	33.70	24.29	365.7	.110	5.62
50	16.98	33.57	24.44	351.3	.181	5.72
75	15.60	33.87	24.99	299.9	.263	5.48
100	13.26	33.71	25.36	264.8	.333	4.23
150	10.71	33.95	26.03	202.0	.450	3.05
200	9.49	34.14	26.39	168.9	.543	2.42
250	9.18	34.31	26.57	152.4	.623	1.57
300	9.20	34.45	26.68	143.4	.697	0.70
400	8.10	34.49	26.88	125.2	.831	0.28
500	7.09	34.49	27.03	112.1	.950	0.21
600	6.20	34.49	27.15	101.2	1.057	0.30
700	5.53	34.51	27.25	92.1	1.153	0.32
800	5.01	34.52	27.32	85.8	1.242	0.32
1000	4.17	34.51	27.40	78.1	1.406	0.50

STATION 133.25 (Interpolated Values at Standard Depths)

CREST: 26°01'N 112°48'W; June 10, 1952; 0131 GCT; wire angle: 10°; sounding: 45 fms; depth of observation: 49 m; weather: clear; sea: moderate; wind: 290°, force 5.

0	14.45	34.09	25.41	257.8	.000	4.50
10	14.46	34.05	25.38	261.2	.026	4.39
20	14.14	34.05	25.44	255.0	.052	3.91
30	12.50	34.14	25.85	217.1	.075	0.65
50	(12.10)	(34.23)	(25.99)	(203.6)	(.117)	(0.32)

STATION 133.30 (Interpolated Values at Standard Depths)

CREST: 25°52'N 113°06'W; June 9, 1952; 2225, 2243 GCT; wire angle: 8°, 8°; sounding: 100 fms; depth of observation: 70, 143 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)
0	17.54	33.71	24.42	352.2	.000	5.58
10	16.58	33.76	24.68	327.3	.034	5.28
20	13.80	33.70	25.24	273.9	.064	4.28
30	12.20	33.70	25.56	243.9	.090	3.25
50	11.82	34.05	25.91	211.8	.135	1.92
75	11.62	34.26	26.11	193.3	.186	1.04
100	11.55	34.43	26.25	180.2	.233	0.45
150	(11.34)	(34.61)	(26.43)	(164.4)	(.319)	(0.49)

STATION 133.40 (Interpolated Values at Standard Depths)

CREST: 25°30'N 113°50'W; June 9, 1952; 1612 GCT; wire angle: 27°; sounding: 1800 fms; depth of observation: 545 m; weather: partly cloudy; sea: very rough; wind: 320°, force 5.

0	16.62	33.51	24.48	346.1	.000	5.70
10	16.62	33.49	24.47	347.9	.035	5.70
20	16.60	33.51	24.49	346.3	.069	5.73
30	16.53	33.51	24.50	345.0	.104	5.66
50	15.35	33.39	24.68	329.0	.171	5.93
75	12.92	33.46	25.24	276.0	.247	4.95
100	11.05	33.75	25.81	221.5	.309	3.47
150	10.52	34.05	26.14	191.4	.412	2.17
200	10.50	34.50	26.49	159.0	.500	0.84
250	9.98	34.52	26.60	149.9	.577	0.55
300	9.39	34.51	26.69	142.0	.650	0.29
400	8.27	34.49	26.85	127.8	.785	0.26
500	7.06	34.46	27.01	113.9	.906	0.32

STATION 133.50 (Interpolated Values at Standard Depths)

CREST: 25°14'N 114°24'W; June 9, 1952; 0935 GCT; wire angle: 25°; sounding: 2050 fms; depth of observation: 578 m; weather: partly cloudy; sea: very rough; wind: 340°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	17.41	33.46	24.26	367.5	.000	5.64
10	17.41	33.46	24.26	367.8	.037	5.53
20	17.40	33.48	24.27	366.4	.073	5.50
30	17.40	33.48	24.27	366.7	.110	5.51
50	16.21	33.49	24.56	340.1	.181	5.74
75	14.85	33.40	24.79	318.5	.263	5.76
100	14.92	33.85	25.12	287.8	.339	4.36
150	11.73	34.02	25.90	214.7	.465	3.31
200	11.23	34.49	26.36	172.4	.561	2.00
250	10.63	34.55	26.51	158.7	.644	0.71
300	9.87	34.49	26.60	151.3	.722	0.76
400	8.43	34.45	26.80	133.2	.864	0.54
500	7.22	34.47	26.99	115.4	.988	0.45

STATION 137.23 (Interpolated Values at Standard Depths)

CREST: 25°35'N 112°19'W; June 8, 1952; 1059 GCT; wire angle: 1°; sounding: 40 fms; depth of observation: 50 m; weather: clear; sea: moderate; wind: 300°, force 3.

0	17.30	33.80	24.54	340.2	.000	5.79
10	17.08	33.84	24.63	332.6	.034	5.67
20	12.31	33.77	25.60	240.5	.062	3.02
30	12.32	34.02	25.79	222.6	.085	1.71
50	12.89	34.34	25.92	210.2	.129	0.28

STATION 137.30 (Interpolated Values at Standard Depths)

CREST: 25°20'N 112°46'W; June 8, 1952; 1457, 1517 GCT; wire angle: 14°, 16°; sounding: 135 fms; depth of observation: 24, 187 m; weather: clear; sea: very rough; 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	16.78	33.62	24.53	341.6	.000	5.69
10	16.76	33.63	24.54	340.8	.034	5.80
20	16.62	33.64	24.58	337.2	.068	5.78
30	14.90	33.63	24.96	301.5	.100	5.62
50	12.75	33.62	25.39	260.4	.156	3.95
75	12.32	34.22	25.94	209.0	.215	1.85
100	11.97	34.41	26.16	189.2	.265	0.92
150	11.33	34.62	26.44	163.5	.353	0.44

STATION 137.40 (Interpolated Values at Standard Depths)

CREST: 25°00'N 113°23'W; June 8, 1952; 2059 GCT; wire angle: 30°; sounding: 1750 fms; depth of observation: 542 m; weather: clear; sea: rough; wind: 310°, force 4.

0	16.67	33.49	24.45	348.7	.000	5.70
10	16.58	33.49	24.47	347.0	.035	5.83
20	16.39	33.49	24.52	343.1	.069	5.84
30	15.71	33.44	24.63	332.4	.103	6.13
50	14.00	33.35	24.93	304.3	.167	5.89
75	11.50	33.51	25.55	246.4	.236	4.39
100	11.22	34.04	26.01	203.1	.292	3.00
150	11.13	34.44	26.34	173.2	.386	0.66
200	10.90	34.59	26.49	159.3	.469	0.33
250	10.14	34.57	26.61	148.9	.546	0.22
300	9.58	34.49	26.64	146.5	.620	0.24
400	8.19	34.46	26.84	128.8	.757	0.16
500	7.12	34.43	26.97	116.9	.880	0.14

STATION 137.50 (Interpolated Values at Standard Depths)

CREST: 24°40'N 114°02'W; June 9, 1952; 0252 GCT; wire angle: 15°; sounding: 2200 fms; depth of observation: 624 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	17.38	33.49	24.29	364.6	.000	5.54
10	17.37	33.48	24.28	365.4	.037	5.46
20	17.36	33.46	24.27	366.9	.073	5.41
30	17.38	33.47	24.27	367.0	.110	5.48
50	16.79	33.49	24.43	352.8	.182	5.71
75	14.08	33.63	25.13	286.1	.262	5.35
100	12.80	33.49	25.28	272.1	.331	3.39
150	11.62	34.00	25.90	214.2	.453	1.40
200	11.17	34.19	26.13	193.4	.555	0.78
250	10.18	34.29	26.39	170.1	.646	0.55
300	9.50	34.51	26.67	143.8	.724	0.29
400	8.31	34.47	26.83	129.9	.861	0.18
500	7.22	34.47	26.99	115.4	.984	0.16
600	6.27	34.46	27.11	104.4	1.094	0.16

Mr. Richard C. Vetter
Geophysics Branch
Office of Naval Research
Washington 25, D. C.

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

Mr. Gilbert C. Van Camp, Sr.
772 Tuna Street
Terminal Island, California

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

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

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

Dr. E. L. Pickard
Inst. of Oceanography
U. of British Columbia
Vancouver, B. C.
CANADA

Librarian 4
Dept. of Fish and Game
Calif. State Fisheries Lab.
Terminal Island, Calif.

Mr. R. S. Croker
Calif. Dept. of Fish & Game
926 J Street
Sacramento 14, California

Herrn Prof. Dr. A. Defant
Sternwartestrasse 38
Innsbruck
AUSTRIA

Mr. Don Powell
U.S. Fish & Wildlife Service
2725 Montlake Blvd.
Seattle 2, Washington

Director of Research
Fish Commission of Oregon
Route 1, Box 31A
Clackamas, Oregon

Mr. Milton C. James
Pacific Mar. Fish.Comm.
340 State Office Bldg.
1400 S.W. 5th Avenue
Portland 1, Oregon

Hancock Library of Biology and Oceanography
Allan Hancock Foundation
University of So. Calif.
Los Angeles 7, California

Dr. A. W. H. Needler, Dir.
Pacific Biological Station
Nanaimo, B. C.
CANADA

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

Mr. J. F. Theodore Saur
Code 2235
U.S. Navy Electronics Laboratory
San Diego 52, California

Mr. Seth Gordon, Director
Calif. Dept. of Fish&Game
Marine Fisheries Branch
926 J Street
Sacramento 14, California

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

Mr. J. C. Marr
U.S. Fish & Wildlife Service
c/o Scripps Institution of Oceanography
La Jolla, California

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

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

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

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

Dr. D. W. Pritchard
Chesapeake Bay Institute
The Johns Hopkins Univer.
R.F.D. #2--Box 42
Annapolis, Maryland

Dr. Roger Revelle
University of California
Scripps Inst. of Oceanography
La Jolla, California

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

Dr. H. Kitamura
Oceanographic Section
Kobe Marine Observatory
Kobe, JAPAN

Mrs. Margaret K. Robinson
University of California
Scripps Institution of Oceanography
La Jolla, California

Mr. Don T. Saxby
California Packing Corp.
215 Freemont Street
San Francisco, Calif.

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

Library
Scripps Institution of Oceanography
La Jolla, California

Mr. O. E. Sette, Chief
Ocean Research
U.S. Fish & Wildlife Serv.
450-B Jordan Hall
Stanford, California

Pres. Robert G. Sproul
University of California
Berkeley 4, California

Miss Margaret Storey, Librarian
Natural History Museum
Stanford, California

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

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

Chief, Division of Fisheries
Commonwealth Scientific and Indust. Research Org.
P. O. Box 21
Crunulla, NSW, AUSTRALIA

Dr. John P. Tully
Pacific Oceanographic Group
P. O. Drawer 6
Nanaimo, B. C., CANADA

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

U.S. Hydrographic Office 2
Navy Department
Washington 25, D. C.
ATT: Mr. John Lyman

University of California
Department of Zoology
Berkeley 4, California

University of Calif. 2
General Library
Berkeley 4, California
ATT: Gifts & Exchange Department

Director
University of Miami
Marine Laboratory
Coral Gables, Florida

Librarian
University of Washington
Oceanographic Laboratories
Friday Harbor, Washington

Librarian 2
University of Washington
Oceanographic Laboratories
Seattle 5, Washington

Director
University of Washington
School of Fisheries
Seattle 4, Washington

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

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

Director
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts

Dr. H. J. McLellan
Atlantic Oceanographic Group
St. Andrews, New Brunswich
CANADA

Mr. Ray Cannon
Research Education
Ocean Fish Protective Assn.
645 N. Serrano
Los Angeles 4, California

Mr. John Hawk
c/o Seafarers' International Union of N. America
450 Harrison Street
San Francisco 5, California

Mr. Joseph Mardesich
Franco-Italian Packing Co.
Fish Harbor Wharf
Terminal Island, California

Mr. Arthur H. Mendonca
c/o R. E. Booth Co., Inc.
280 Battery Street
San Francisco 11, Calif.

Mr. W. E. Stewart
c/o Calif. State Chamber of Commerce
350 Bush Street
San Francisco 4, California