CORRECTIONS MADE :
STATION POSITIONS 4/8 (more)

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

DATA REPORT

PHYSICAL AND CHEMICAL DATA
CCOFI CRUISE 5301
(MLR 44)
6-22 January 1953

SIO Reference 57-32
7 August 1957

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5301

(MLR 44)

6-22 January 1953

Sponsored by

Marine Research Committee

SIO Reference 57-32
7 August 1957

Approved for distribution:

Roger Revelle

Roger Revelle, Director

CONTENTS

FIGURES

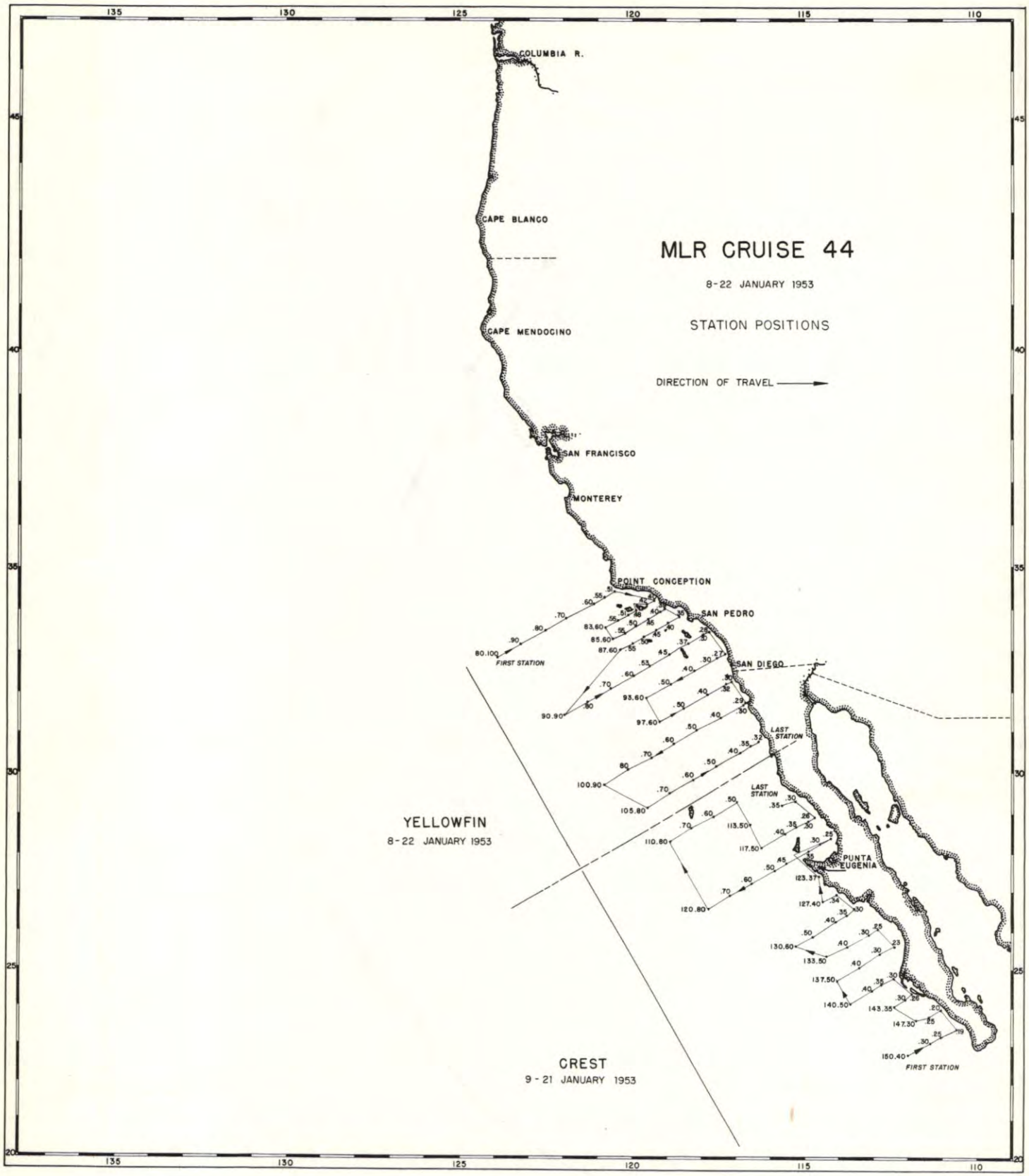

Figure 1A. Station positions, CREST and YELLOWFIN

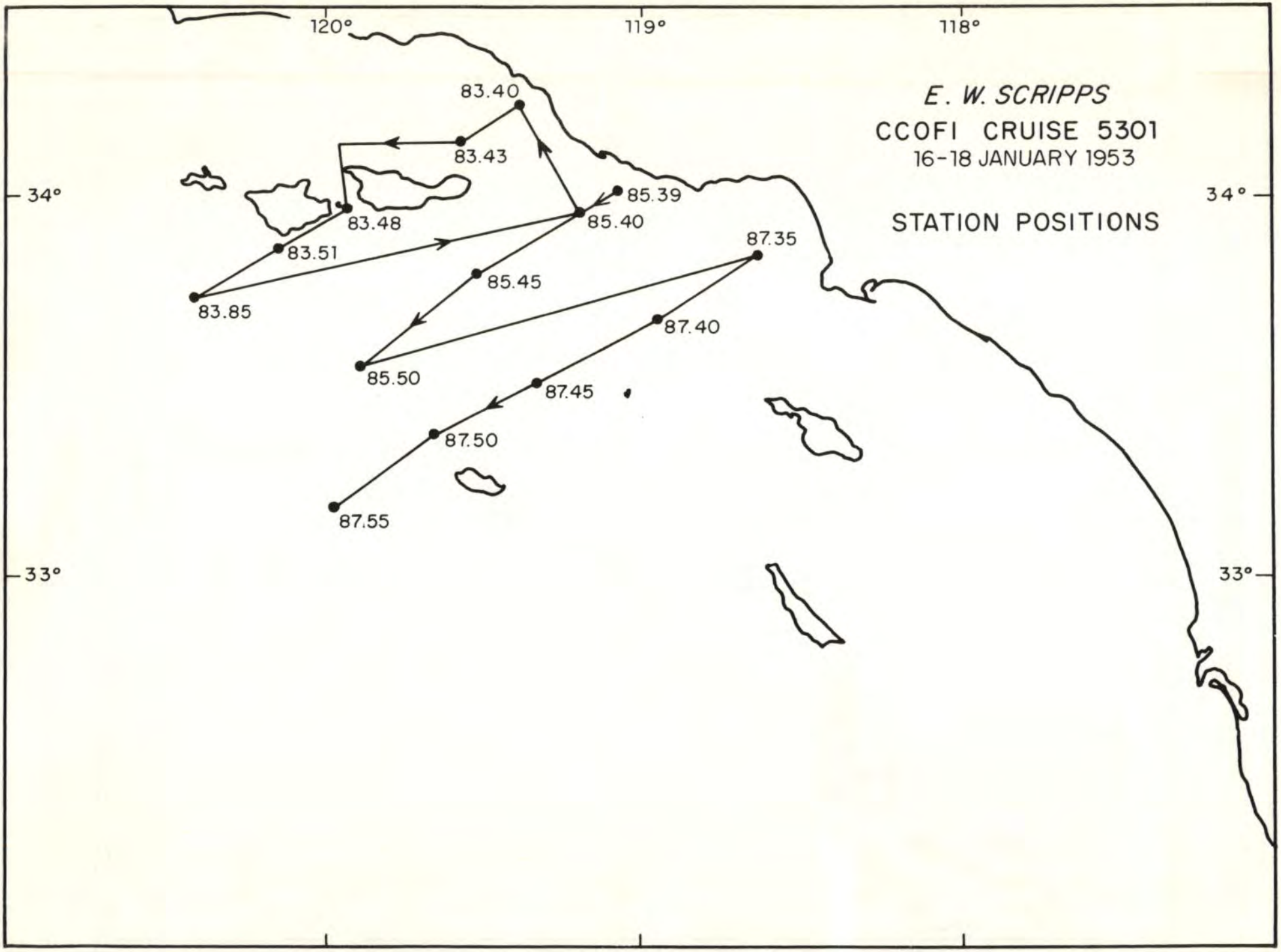
120°
119°
118°
34°
33°
E. W. SCRIPPS
CCOFI CRUISE 5301
16-18 JANUARY 1953
STATION POSITIONS
83.40
83.43
83.48
85.39
85.40
83.51
83.85
85.45
87.35
87.40
85.50
87.45
87.50
87.55

Figure 1B

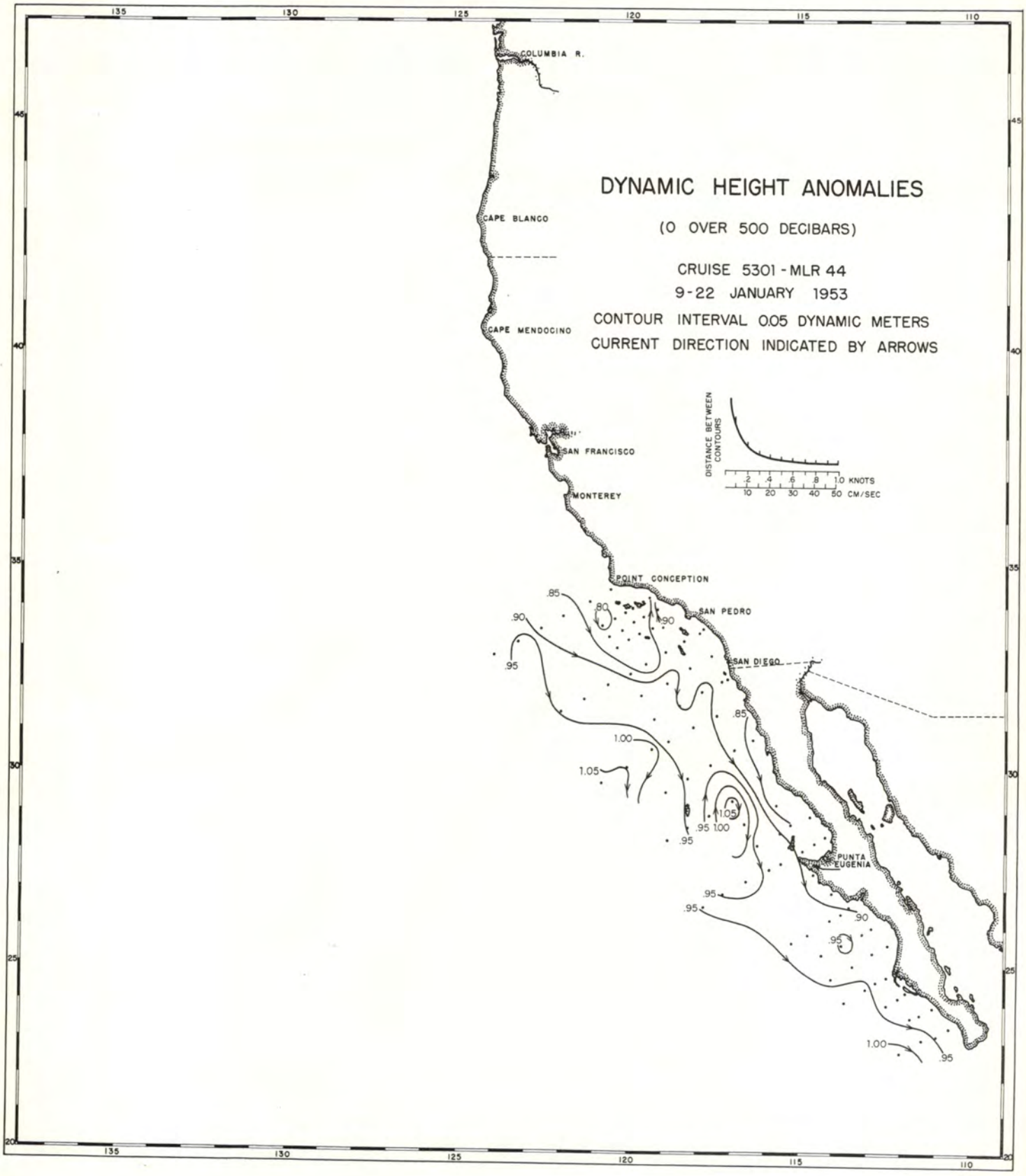
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CRUISE 5301 - MLR 44
9-22 JANUARY 1953
CONTOUR INTERVAL 0.05 DYNAMIC METERS
CURRENT DIRECTION INDICATED BY ARROWS
DISTANCE BETWEEN CONTOURS
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
COLUMBIA R.
CAPE BLANCO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
135
130
125
120
115
110
45
40
35
30
25
20

Figure 2

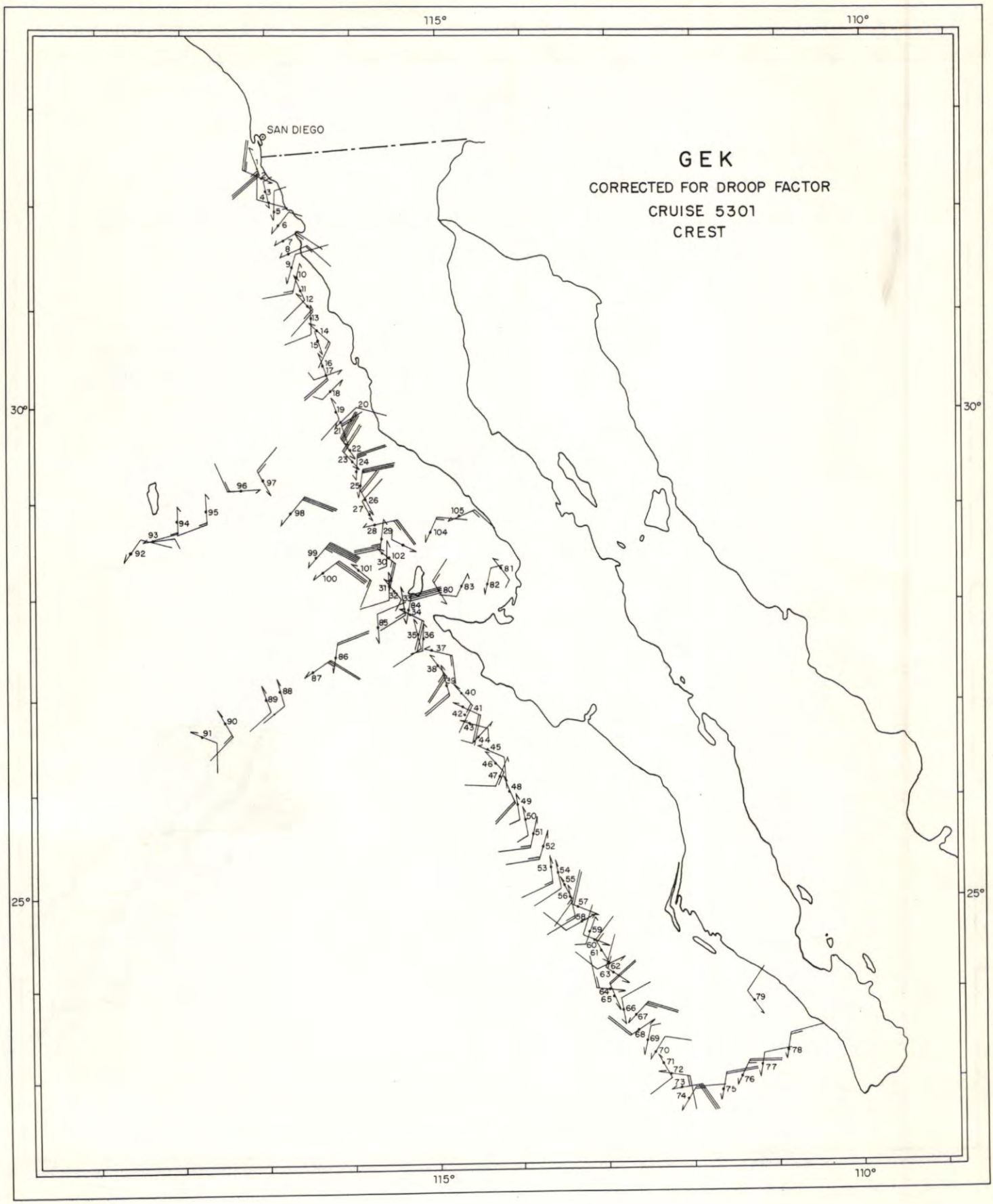
GEK
CORRECTED FOR DROOP FACTOR
CRUISE 5301
CREST
SAN DIEGO
115°
110°
30°
25°

Figure 3

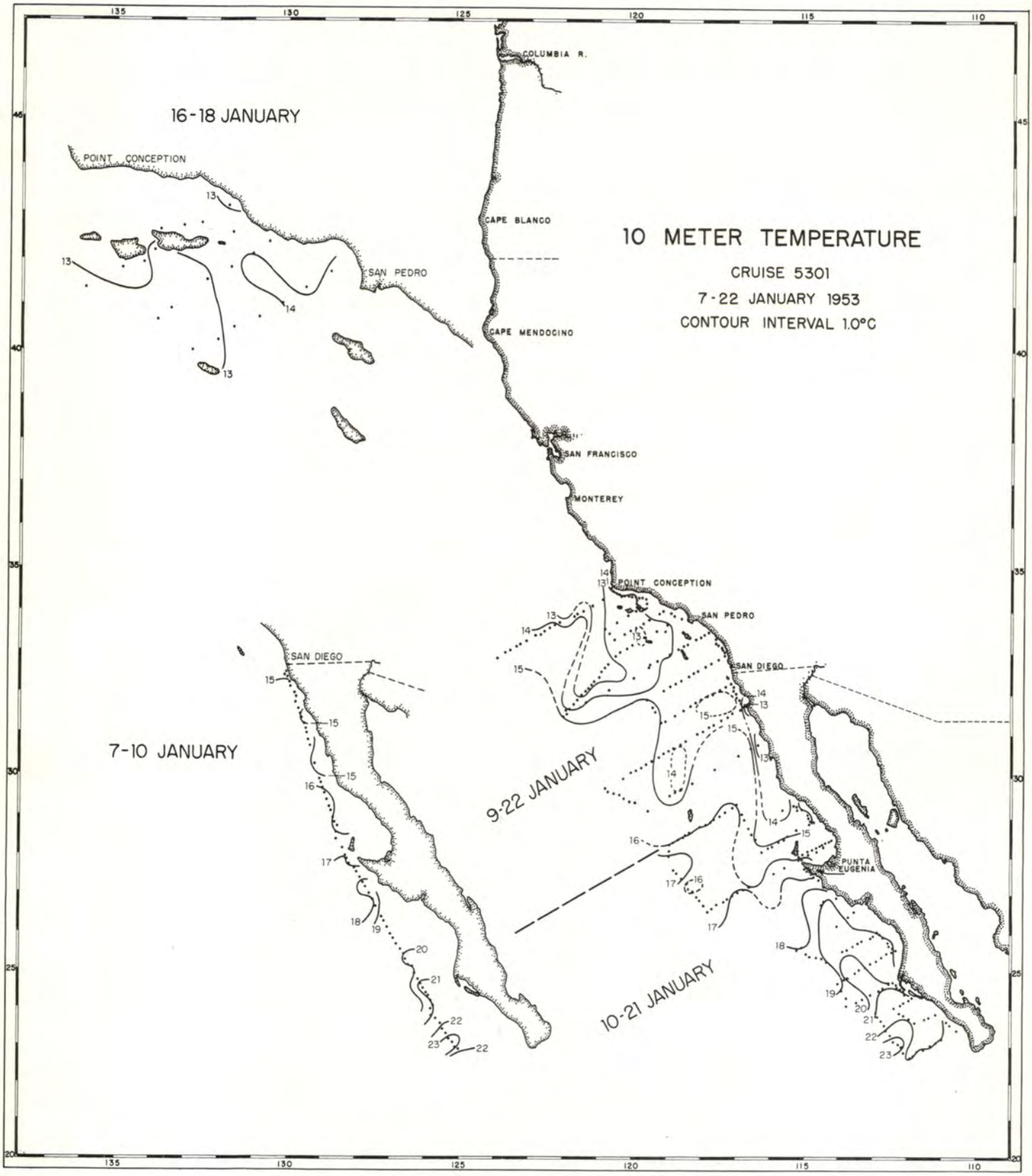
10 METER TEMPERATURE
CRUISE 5301
7-22 JANUARY 1953
CONTOUR INTERVAL 1.0°C
16-18 JANUARY
7-10 JANUARY
9-22 JANUARY
10-21 JANUARY
COLUMBIA R.
POINT CONCEPTION
CAPE BLANCO
SAN PEDRO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
SAN DIEGO
PUNTA EUGENIA
135
130
125
120
115
110
45
40
35
30
25
20

Figure 4

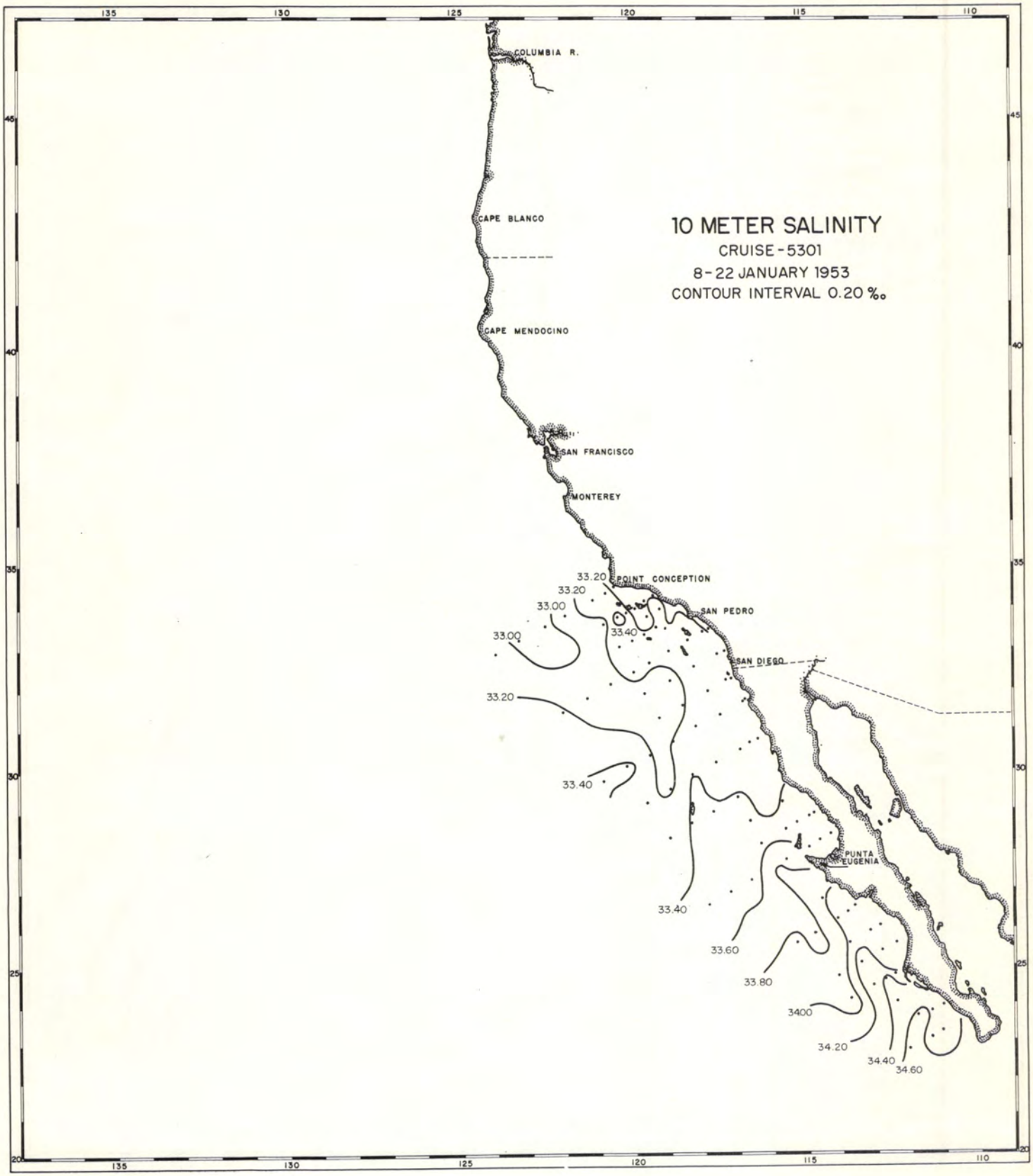
10 METER SALINITY
CRUISE - 5301
8 - 22 JANUARY 1953
CONTOUR INTERVAL 0.20 ‰
COLUMBIA R.
CAPE BLANCO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
33.20
33.20
33.00
33.40
33.00
33.20
33.40
33.40
33.60
33.80
3400
34.20
34.40
34.60
135
130
125
120
115
110
45
40
35
30
25
20

Figure 5

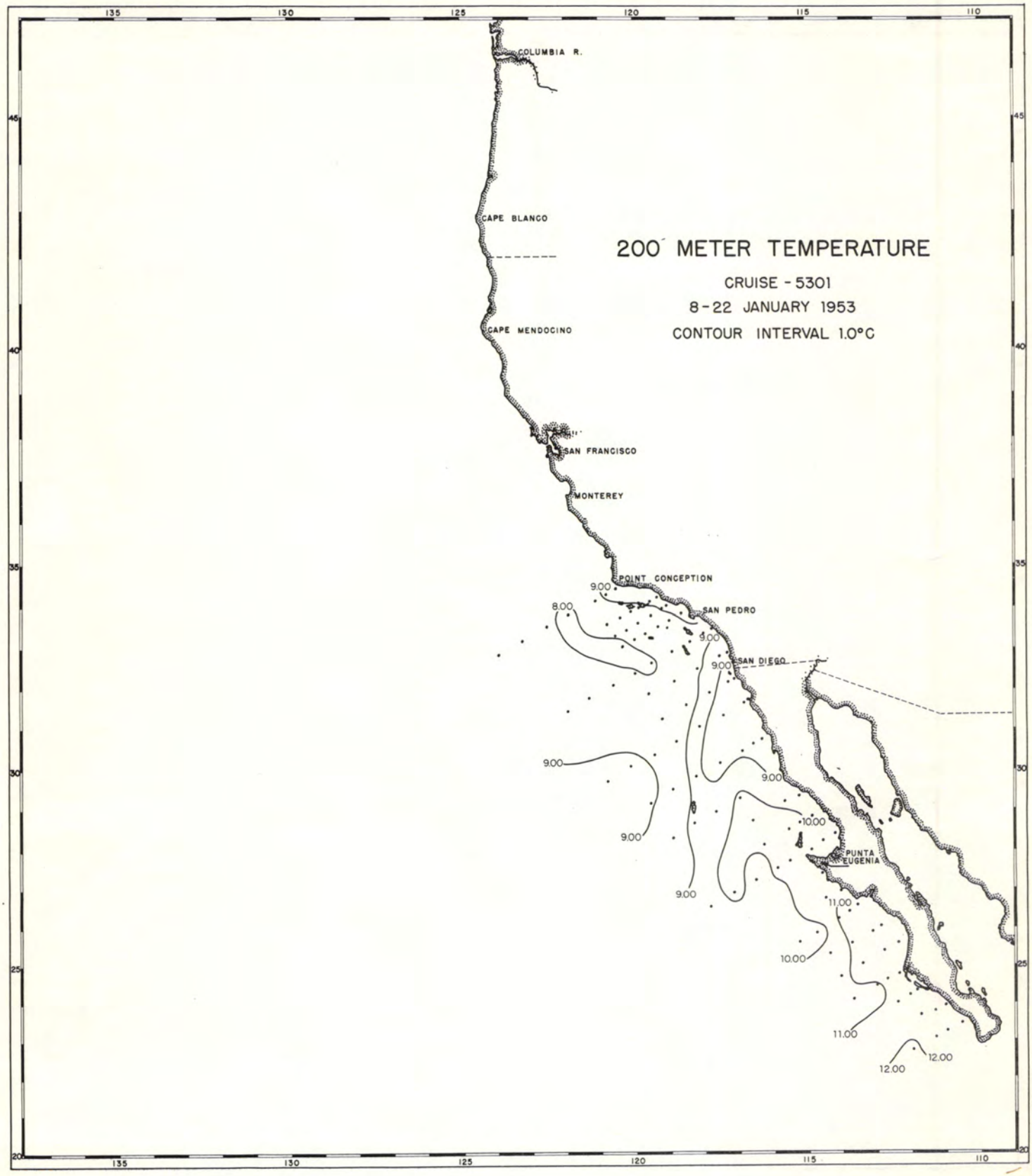
200 METER TEMPERATURE
CRUISE - 5301
8 - 22 JANUARY 1953
CONTOUR INTERVAL 1.0°C
COLUMBIA R.
CAPE BLANCO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
8.00
9.00
10.00
11.00
12.00
135
130
125
120
115
110
45
40
35
30
25
20

Figure 7

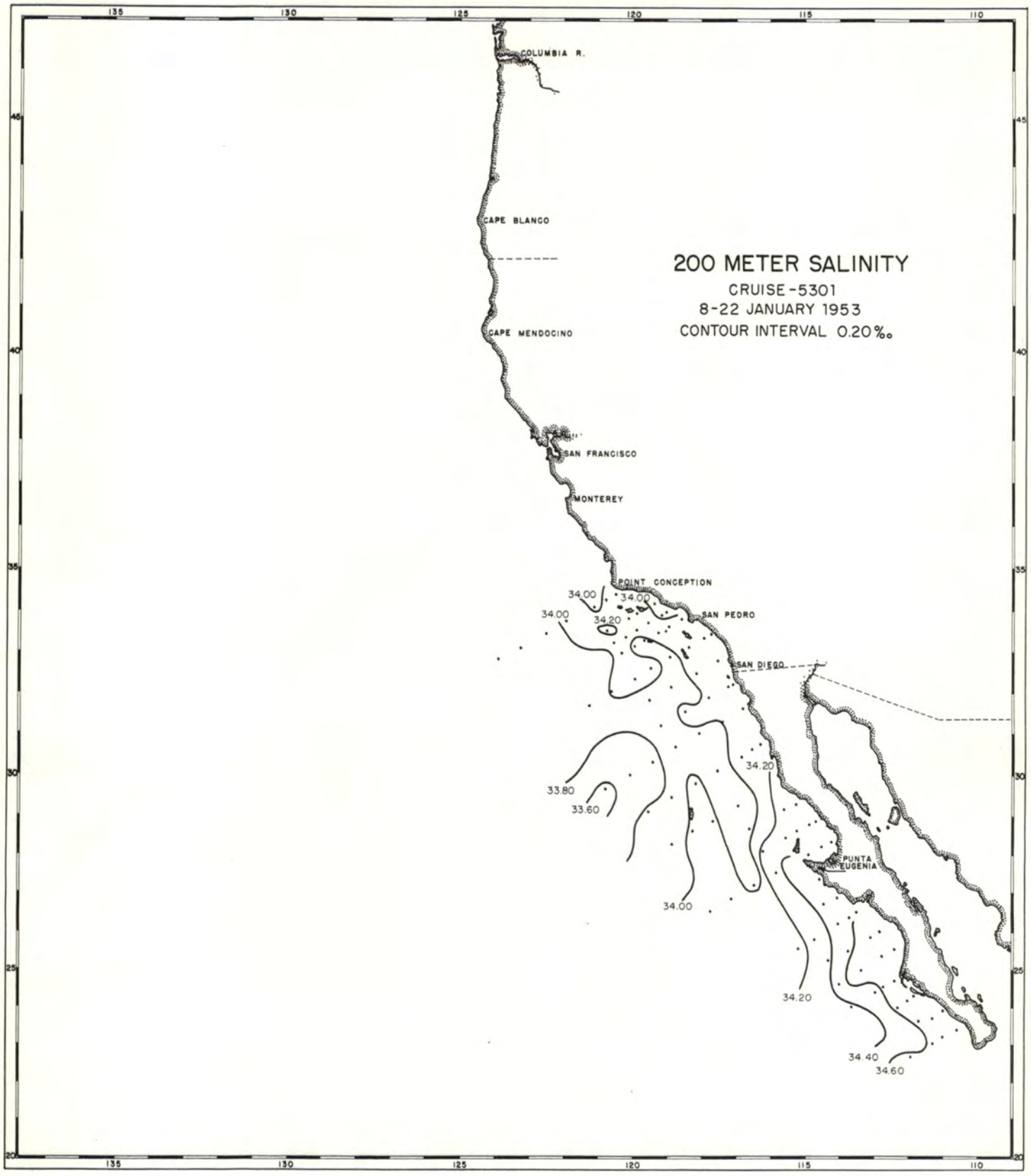
200 METER SALINITY
CRUISE-5301
8-22 JANUARY 1953
CONTOUR INTERVAL 0.20‰
COLUMBIA R.
CAPE BLANCO
CAPE MENDOCINO
SAN FRANCISCO
MONTEREY
POINT CONCEPTION
SAN PEDRO
SAN DIEGO
PUNTA EUGENIA
34.00
34.00
34.00
34.20
34.20
33.80
33.60
34.00
34.20
34.40
34.60
135
130
125
120
115
110
45
40
35
30
25
20

Figure 6

INTRODUCTION

The data in this report were collected on the forty-fourth full-scale cruise conducted in the Marine Life Research Program. The three ships participating were the MV YELLOWFIN, of the California Fish and Game, the MV CREST, and the MV E. W. SCRIPPS, of the Scripps Institution of Oceanography.

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

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

Nansen bottle pretripping occurred on YELLOWFIN stations 87.35, 87.40, 87.60, and 90.60. Some of the depths of observations, therefore, may be slightly in error.

PERSONNEL

Ships' Captains

Colbeth, C. W, MV CREST
Brandal, G., MV E. W. SCRIPPS
Mitchell, R. B., MV YELLOWFIN

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

MV CREST

Coolidge, Richard N., Sr. Marine Technician
Uren, Leon W., Laboratory Technician
Duiker, Wesley J., Marine Technician
Kircher, Robert J., Marine Technician
MacGregor, John S., Biologist, U. S. Fish and Wildlife Service

MV E. W. SCRIPPS

Bradshaw, John S., Biologist, U. S. Fish and Wildlife Service (in charge)
Cunningham, Leonard M. Jr., Sr. Marine Technician
Gilkey, Robert W., Sr. Marine Technician
Schwartzlose, Richard A., Laboratory Technician

MV YELLOWFIN

Smith, Alan C., Sr. Marine Technician
Howell, Robert W., Marine Technician
King, Robert D., Marine Technician
Bevington, Clarence F., Aquatic Biologist, California Fish and Game Commission

STATION 80.51 (Interpolated Values at Standard Depths)

YELLOWFIN: 34°26' 120°32'; January 10, 1953; 1646 GCT; wire angle: 0°; sounding: 68 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; 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	13.51	33.17	24.90		.000	5.91
10	13.52	33.19	24.91		.031	5.67
20	13.17	33.19	24.98		.061	5.64
30	12.30	33.18	25.14		.090	5.10
50	11.03	33.41	25.55		.143	4.52

STATION 80.55 (Interpolated Values at Standard Depths)

YELLOWFIN: 34°19' 120°48'; January 10, 1953; 1425 GCT; wire angle: 0°; sounding: 400 fms; depth of observation: 360 m; weather: partly cloudy; sea: slight; wind: 320°, force 3.

0	12.89	33.22	25.06		.000	6.21
10	12.88	33.23	25.07		.029	5.70
20	12.82	33.24	25.09		.058	5.30
30	11.71	33.25	25.31		.086	5.00
50	10.99	33.38	25.54		.137	4.16
75	10.10	33.48	25.77		.196	3.71
100	9.64	33.68	26.00		.250	3.07
150	9.17	33.89	26.24		.346	2.56
200	9.04	34.03	26.37		.434	1.98
250	8.67	34.09	26.48		.516	1.75
300	8.18	34.15	26.60		.594	1.45

STATION 80.60 (Interpolated Values at Standard Depths)

YELLOWFIN; 34°09' 121°09'; January 10, 1953; 1035 GCT; wire angle: 4°; sounding: 1000+ fms; depth of observation: 1194 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	12.78	33.21	25.07		.000	6.00
10	12.79	33.32	25.15		.029	5.99
20	12.77	33.24	25.10		.057	6.04
30	12.00	33.20	25.21		.085	6.03
50	11.63	33.27	25.34		.140	4.91
75	9.87	33.45	25.79		.201	3.68
100	9.36	33.64	26.02		.254	3.16
150	8.59	33.84	26.30		.348	2.67
200	8.18	33.96	26.45		.433	2.37
250	7.87	34.03	26.55		.512	2.00
300	7.67	34.23	26.74		.584	1.28
400	6.80	34.15	26.80		.718	1.04
500	5.80	34.19	26.96		.843	0.54
600	5.37	34.27	27.08		.954	0.42
700	4.95	34.33	27.17		1.057	0.48
800	4.53	34.38	27.26		1.151	0.55
1000	3.96	34.48	27.40		1.319	0.56

STATION 80.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°47' 121°54'; January 10, 1953; 0340 GCT; wire angle: 12°; sounding: 1000+ fms; depth of observation: 587 m; weather: clear; sea: smooth; wind: 320°, force 3.

0	13.11	33.09	24.91		.000	5.97
10	13.10	33.08	24.91		.031	5.82
20	12.94	32.85	24.76		.062	6.03
30	12.80	32.99	24.90		.093	6.14
50	12.53	32.99	24.95		.154	6.01
75	10.95	33.25	25.44		.224	5.24
100	9.53	33.35	25.76		.284	4.22
150	8.66	33.86	26.30		.385	2.69
200	7.95	34.10	26.60		.466	2.41
250	7.36	34.10	26.68		.538	2.11
300	7.00	34.06	26.70		.608	1.73
400	6.13	34.11	26.85		.741	0.92
500	5.61	34.21	27.00		.860	0.47
600	(5.10)	(34.27)	(27.11)		(.968)	-

STATION 80.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°29' 122°32'; January 9, 1953; 2104 GCT; wire angle: 10°; sounding: 1000+ fms; depth of observation: 1189 m; weather: overcast; sea: smooth; wind: 340°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	10^5S	ΔD (dyn.m.)	O_2 (ml/L)
0	13.71	32.94	24.68		.000	(5.94)
10	13.52	32.92	24.70		.033	5.94
20	13.21	32.90	24.75		.065	5.97
30	12.90	32.90	24.81		.097	5.95
50	12.40	32.99	24.97		.158	5.80
75	10.42	33.00	25.34		.229	5.24
100	9.32	33.18	25.66		.292	4.01
150	8.55	33.64	26.15		.398	3.61
200	8.03	33.85	26.39		.488	3.10
250	7.40	34.11	26.68		.565	2.35
300	6.92	34.21	26.83		.632	1.98
400	6.27	34.17	26.88		.757	0.82
500	5.63	34.27	27.04		.873	0.50
600	5.21	34.39	27.19		.975	0.46
700	4.78	34.45	27.29		1.067	0.43
800	4.41	34.49	27.36		1.151	0.37
1000	3.81	(34.48)	(27.41)		(1.308)	0.56

STATION 80.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°09' 123°14'; January 9, 1953; 1513 GCT; wire angle: 1°; sounding: 2000 fms; depth of observation: 608 m; weather: clear; sea: smooth; wind: 160°, force 3.

0	14.20	32.91	24.55		.000	5.71
10	14.21	32.91	24.55		.034	5.87
20	14.29	32.94	24.56		.068	5.77
30	14.40	33.03	24.60		.102	5.67
50	14.56	33.04	24.58		.169	5.81
75	12.00	32.96	25.03		.248	5.72
100	10.03	32.90	25.33		.319	5.31
150	9.12	33.51	25.95		.438	4.21
200	8.22	33.85	26.36		.532	3.19
250	7.69	33.96	26.52		.614	2.66
300	7.34	34.03	26.63		.690	2.26
400	6.68	34.15	26.81		.828	1.31
500	5.86	34.19	26.95		.952	0.53
600	5.19	34.23	27.06		1.064	0.35

STATION 80.100 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°49' 123°55'; January 9, 1953; 0835 GCT; wire angle: 16°; sounding: 2000+ fms; depth of observation: 1133 m; weather: cloudy; sea: slight; wind: 160°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.16	33.18	24.77		.000	5.81
10	14.18	33.14	24.73		.032	5.64
20	14.23	33.14	24.72		.064	5.57
30	14.24	33.14	24.72		.097	5.55
50	14.12	33.14	24.75		.161	5.57
75	11.04	33.06	25.28		.236	5.02
100	10.00	33.29	25.64		.299	4.62
150	8.72	33.73	26.19		.405	3.13
200	8.19	33.98	26.47		.492	2.32
250	7.69	34.02	26.57		.570	1.98
300	7.32	34.05	26.65		.644	1.62
400	6.41	34.12	26.83		.781	1.03
500	5.60	34.19	26.98		.902	0.66
600	5.09	34.27	27.11		1.011	0.48
700	4.79	34.33	27.19		1.111	0.38
800	4.48	34.38	27.26		1.204	0.39
1000	3.81	34.44	27.38		1.372	0.57

STATION 83.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 34°14' 119°22; January 17, 1953; 0526 GCT; wire angle: 0°; sounding: 14 fms; depth of observation: 15 m; weather: clear; sea: calm; wind: 90°, force 1.

0	14.26	33.14	24.72	.000	6.24
10	14.20	33.17	24.75	.032	5.93

STATION 83.40 (Interpolated Values at $S_t$andard Depths)

E. W. SCRIPPS: 34°14' 119°22'; January 16, 1953; 1945 GCT; wire angle: 0°; sounding: 13 fms; depth of observation: 20 m; weather: overcast; sea: moderate; wind: 320°, force 1.

0	12.09	33.18	25.18	.000	-
10	12.98	33.18	25.01	.029	-
20	13.39	33.20	24.94	.059	-

STATION 83.43 (Interpolated Values at Standard Depths)

YELLOWFIN: 34°08' 119°34'; January 12, 1953; 0715 GCT; wire angle: 2°; sounding: 130 fms; depth of observation: 155 m; weather: overcast;sea: smooth; 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	14.31	33.18	24.74		.000	6.05
10	14.32	33.19	24.74		.032	6.28
20	14.16	33.20	24.78		.064	6.03
30	13.88	33.19	24.83		.096	5.72
50	13.22	33.16	24.95		.157	5.50
75	11.28	33.26	25.39		.228	4.64
100	10.16	33.39	25.69		.290	3.95
150	9.23	33.88	26.23		.394	2.36

STATION 83.43 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 34°08' 119°34'; January 16, 1953; 2122 GCT; wire angle: 8°; sounding: 120 fms; depth of observation: 200 m; weather: cloudy; sea: slight; wind: 320°, force 2.

0	13.98	33.18	24.81		.000	-
10	13.78	33.18	24.85		.031	-
20	13.53	33.18	24.90		.062	-
30	13.31	33.18	24.94		.093	-
50	12.93	33.19	25.03		.153	-
75	10.83	33.29	25.50		.221	-
100	9.80	33.59	25.91		.279	-
150	9.26	33.89	26.23		.378	-
200	9.09	34.00	26.34		.466	-

STATION 83.48 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°58' 119°55'; January 12, 1953; 1136 GCT; wire angle: 0°; sounding: 103 fms; depth of observation: 50 m; weather: overcast; sea: calm; wind: 270°, force 1.

0	13.90	33.16	24.81		.000	5.87
10	13.84	33.16	24.82		.031	5.88
20	13.50	33.18	24.90		.062	5.73
30	13.35	33.20	24.95		.093	5.75
50	12.56	33.21	25.11		.152	5.51

STATION 83.48 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°58' 119°55'; January 17, 1953; 0125 GCT; wire angle: 2°; sounding: 80 fms; depth of observation: 125 m; weather: partly cloudy; sea: smooth; wind: 280°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.58	33.18	24.89		.000	-
10	12.94	33.19	25.02		.030	-
20	12.77	33.21	25.07		.059	-
30	12.67	33.23	25.11		.088	-
50	12.38	33.26	25.19		.145	-
75	11.45	33.30	25.39		.213	-
100	9.80	33.63	25.94		.271	-

STATION 83.51 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°52' 120°08'; January 12, 1953; 1405 GCT; wire angle: 0°; sounding: 115 fms; depth of observation: 155 m; weather: overcast; sea: calm; wind: 270°, force 1.

0	14.34	33.25	24.79	.000	5.92
10	14.18	33.22	24.80	.032	5.99
20	13.81	33.22	24.87	.063	5.70,
30	12.12	33.22	25.21	.092	5.42
50	11.34	33.25	25.37	.146	5.03
75	10.54	33.35	25.59	.209	4.25
100	10.22	33.57	25.82	.267	3.99
150	9.56	33.67	26.01	.373	3.16

STATION 83.51 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°52' 120°08'; January 17, 1952; 0340 GCT; wire angle: 10°; sounding: 105 fms; depth of observation: 152 m; weather: partly cloudy; sea: slight; wind: 320°, force 4.

0	13.70	33.21	24.89	.000	-
10	13.62	33.20	24.90	.031	-
20	13.51	33.22	24.93	.061	-
30	11.59	33.32	25.38	.089	-
50	9.92	33.54	25.85	.137	-
75	9.49	33.81	26.13	.188	-
100	9.35	33.89	26.21	.235	-
150	8.94	34.01	26.37	.323	-

STATION 83.55 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°44' 120°24'; January 12, 1953; 1650 GCT; wire angle: 10°; sounding: 590 fms; depth of observation: 608 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	13.57	(33.43)	(25.08)		(.000)	(5.84)
10	13.58	33.43	25.08		.029	5.83
20	13.20	33.45	25.17		.057	5.78
30	12.65	33.40	25.24		.085	5.47
50	10.60	33.42	25.64		.136	4.07
75	9.75	33.56	25.89		.193	3.30
100	9.13	33.93	26.28		.241	3.13
150	8.87	34.06	26.42		.327	2.39
200	8.51	34.12	26.53		.406	1.72
250	8.15	34.15	26.61		.482	1.57
300	7.92	34.17	26.66		.556	1.13
400	7.30	34.22	26.78		.695	0.73
500	6.44	34.26	26.93		.821	0.45
600	5.53	34.29	27.07		.935	0.36

STATION 83.55 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°44' 120°24'; January 17, 1953; 0640 GCT; wire angle: 15°; sounding: 650 fms; depth of observation: 173 m; weather: cloudy; sea: very rough; wind: 300°, force 6.

0	12.74	33.26	25.12	.000	-
10	12.69	33.26	25.13	.029	-
20	12.31	33.29	25.22	.057	-
30	11.50	33.36	25.43	.083	-
50	9.78	33.52	25.85	.130	-
75	9.32	33.67	26.05	.182	-
100	9.13	33.81	26.19	.230	-
150	8.67	34.01	26.42	.318	-

STATION 83.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°34' 120°45'; January 12, 1953; 2018 GCT; wire angle: 0°; sounding: 980 fms; depth of observation: 609 m; weather: partly cloudy; sea: smooth; 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	13.31	33.26	25.00		.000	6.02
10	13.08	33.15	24.97		.030	6.10
20	12.60	33.21	25.11		.059	5.94
30	12.28	33.28	25.22		.087	5.86
50	11.56	33.45	25.49		.140	4.20
75	9.90	33.54	25.85		.199	3.65
100	9.38	33.71	26.07		.250	2.87
150	8.77	34.13	26.49		.339	2.31
200	8.42	34.22	26.62		.415	2.14
250	7.99	34.26	26.72		.486	1.59
300	7.58	34.27	26.78		.554	1.08
400	6.50	34.28	26.94		.679	0.76
500	5.91	34.32	27.05		.792	0.53
600	5.34	34.40	27.18		.895	0.34

STATION 85.39 (Interpolated Values at Standard Depths)

YELLOWFIN: 34°00' 119°04'; January 13, 1953; 2015 GCT; wire angle: 13°; sounding: 110 fms; depth of observation: 147 m; weather: rain; sea: slight; wind: 150°, force 2.

0	14.51	33.05	24.60		.000	5.89
10	14.51	33.20	24.71		.033	5.82
20	14.39	33.31	24.82		.065	5.86
30	14.20	33.29	24.85		.096	5.96
50	13.26	33.14	24.92		.158	5.88
75	10.54	33.32	25.57		.227	4.39
100	10.23	33.43	25.71		.286	3.96
150	(9.86)	(33.68)	(25.97)		(.396)	(3.13)

STATION 85.39 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 34°00';119°04'; January 16, 1953; 1453 GCT; wire angle: 10°; sounding: 420 fms; depth of observation: 351 m; weather: partly cloudy; sea: smooth; 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	13.48	33.16	24.89		.000	-
10	13.47	33.15	24.89		.031	-
20	13.44	33.14	24.89		.062	-
30	13.40	33.14	24.89		.092	-
50	11.30	33.17	25.32		.150	-
75	10.23	33.42	25.70		.212	-
100	9.87	33.61	25.91		.268	-
150	9.28	33.98	26.30		.365	-
200	9.02	34.10	26.43		.450	-
250	8.66	34.17	26.54		.530	-
300	8.18	34.21	26.65		.605	-

STATION 85.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°57' 119°10'; January 13, 1953; 1737 GCT; wire angle: 3°; sounding: 480 fms; depth of observation: 606 m; weather: rain; sea: slight; wind: 220°, force 2.

0	14.38	33.18	24.72		.000	6.44
10	14.39	33.36	24.86		.032	6.30
20	14.13	33.21	24.80		.063	5.98
30	13.94	33.21	24.84		.094	5.95
50	12.60	33.17	25.08		.155	5.72
75	10.75	33.27	25.49		.223	4.95
100	10.04	33.47	25.77		.282	4.05
150	9.56	33.86	26.16		.386	2.85
200	9.07	33.99	26.34		.477	2.31
250	8.58	34.10	26.50		.560	1.71
300	8.12	34.15	26.61		.636	1.16
400	7.36	34.26	26.81		.777	0.67
500	6.50	34.27	26.93		.902	0.40
600	5.67	(34.31)	(27.07)		(1.016)	0.29

STATION 85.40 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°57' 119°11; January 16, 1953; 1626 GCT; wire angle: 2°; sounding: 400 fms; depth of observation: 609 m; weather: cloudy; sea: smooth; 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	13.99	33.18	24.80		.000	-
10	13.95	33.19	24.82		.031	-
20	13.95	33.19	24.82		.063	-
30	13.95	33.18	24.81		.094	-
50	13.27	33.16	24.94		.156	-
75	10.76	33.24	25.47		.226	-
100	9.99	33.43	25.75		.286	-
150	9.62	33.89	26.17		.390	-
200	9.28	33.99	26.30		.481	-
250	8.75	34.06	26.44		.567	-
300	8.14	34.13	26.59		.645	-
400	7.48	34.22	26.76		.789	-
500	6.89	34.24	26.86		.920	-
600	5.95	34.30	27.03		1.040	-

STATION 85.40 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°57' 119°10'; January 17, 1953; 1515 GCT; wire angle: 0°; sounding: 400 fms; depth of observation: 607 m; weather: cloudy; sea: slight; wind: calm.

0	14.01	33.23	24.84		.000	-
10	13.99	33.23	24.84		.031	-
20	13.93	33.21	24.84		.062	-
30	13.86	33.19	24.84		.094	-
50	10.95	33.18	25.39		.151	-
75	10.05	33.36	25.68		.213	-
100	9.83	33.64	25.94		.268	-
150	9.38	33.92	26.23		.366	-
200	8.88	34.07	26.43		.453	-
250	8.53	34.14	26.54		.532	-
300	8.24	34.17	26.61		.609	-
400	7.35	34.25	26.80		.749	-
500	6.67	34.27	26.91		.876	-
600	5.85	34.31	27.05		.993	-

STATION 85.45 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°47' 119°31'; January 13, 1953; 1303 GCT; wire angle: 3°; sounding: 1000 fms; depth of observation: 606 m; weather: fog; sea: smooth; wind: 210°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.76	33.17	24.84		.000	6.39
10	13.76	33.16	24.84		.031	6.10
20	12.73	33.19	25.07		.061	5.88
30	11.80	33.21	25.26		.090	5.56
50	10.40	33.32	25.59		.141	4.68
75	9.72	33.61	25.93		.197	3.36
100	9.24	33.76	26.13		.247	3.05
150	9.02	33.96	26.32		.339	2.37
200	8.56	34.10	26.50		.421	1.92
250	8.17	34.16	26.61		.498	1.54
300	7.96	34.19	26.66		.571	1.38
400	7.41	34.23	26.78		.710	0.87
500	6.73	34.27	26.90		.838	0.56
600	6.00	34.40	27.10		.953	0.45

STATION 85.45 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°47' 119°31'; January 17, 1953; 2025 GCT; wire angle: 24°; sounding: 1000 fms; depth of observation: 584 m; weather: cloudy; sea: moderate; wind: 270°, force 3.

0	12.96	33.17	25.01	.000	-
10	12.85	33.14	25.00	.030	-
20	12.61	33.14	25.05	.059	-
30	12.38	33.17	25.12	.088	-
50	12.01	33.26	25.26	.144	-
75	9.80	33.46	25.80	.206	-
100	9.41	33.60	25.98	.259	-
150	8.97	33.89	26.27	.355	-
200	8.45	34.04	26.47	.440	-
250	8.16	34.12	26.58	.518	-
300	7.88	34.19	26.68	.591	-
400	7.19	34.29	26.85	.725	-
500	6.26	34.29	26.98	.847	-
600	(5.60)	(34.30)	(27.07)	(.958)	-

STATION 85.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°37' 119°52'; January 13, 1953; 0805 GCT; wire angle: 10°; sounding: 124 fms; depth of observation: 123 m; weather: fog; sea: calm; 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	13.41	33.18	24.92		.000	5.86
10	12.60	33.21	25.11		.030	5.99
20	11.86	33.25	25.28		.057	5.50
30	11.42	33.44	25.51		.083	4.86
50	10.47	33.36	25.61		.132	4.01
75	9.33	33.62	26.01		.187	3.30
100	9.00	33.81	26.21		.236	2.91

STATION 85.50 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°33' 119°53'; January 18, 1953; 0053 GCT; wire angle:38°; sounding: 280 fms; depth of observation: 163 m; weather: cloudy; sea: very rough; wind: 290°, force 6.

0	12.61	33.21	25.10	.000	-
10	12.55	33.18	25.09	.029	-
20	12.55	33.20	25.11	.057	-
30	12.20	33.23	25.20	.086	-
50	10.35	33.37	25.64	.137	-
75	9.37	33.62	26.00	.192	-
100	9.15	33.71	26.11	.242	-
150	8.78	34.02	26.41	.332	-

STATION 85.55 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°25' 120°12'; January 13, 1953; 0330 GCT; wire angle: 5°; sounding: 650 fms; depth of observation: 596 m; weather: fog; sea: smooth; 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	13.27	33.19	24.96		.000	5.98
10	13.08	33.24	25.04		.030	5.97
20	12.76	33.24	25.10		.059	5.83
30	12.29	33.25	25.20		.087	5.60
50	10.94	33.60	25.72		.138	4.52
75	9.97	33.48	25.79		.194	3.84
100	9.13	33.61	26.03		.247	3.43
150	8.51	33.92	26.37		.340	2.53
200	8.32	34.11	26.55		.420	1.77
250	8.13	34.16	26.62		.495	1.51
300	7.79	34.20	26.70		.567	1.42
400	6.82	34.25	26.87		.700	1.12
500	5.94	34.30	27.03		.817	0.37
600	(5.38)	(34.34)	(27.13)		(.924)	(0.32)

STATION 85.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°17' 120°34'; January 12, 1953; 2350 GCT; wire angle: 1°; sounding: 740 fms; depth of observation: 606 m; weather: overcast; sea: smooth; wind: 320°, force 1.

0	13.33	33.31	25.04	.000	6.14
10	13.16	33.35	25.10	.029	6.02
20	13.05	33.30	25.09	.058	6.04
30	12.98	33.31	25.11	.087	6.03
50	12.30	33.41	25.32	.142	5.19
75	9.95	33.45	25.77	.204	3.78
100	9.26	33.62	26.02	.257	3.39
150	8.48	33.88	26.34	.350	2.58
200	8.01	34.02	26.52	.432	2.11
250	7.49	34.10	26.66	.506	1.49
300	7.25	34.21	26.78	.575	1.40
400	6.37	34.23	26.92	.701	0.54
500	5.97	34.27	27.00	.818	0.48
600	5.35	34.37	27.16	.924	0.35

STATION 87.35 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°50' 118°38'; January 13, 1953; 2343 GCT; wire angle: 10°; sounding: 300 fms; depth of observation: 211 m; weather: rain; sea: moderate; wind: 140°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.58	33.22	24.71		.000	5.75
10	14.58	33.20	24.70		.033	5.69
20	14.50	33.18	24.70		.065	5.62
30	13.82	33.17	24.83		.097	5.53
50	12.60	33.18	25.08		.157	5.33
75	11.10	33.70	25.77		.222	4.53
100	10.33	33.61	25.83		.277	3.96
150	9.68	33.93	26.19		.379	2.73
200	9.25	34.02	26.33		.469	2.05

STATION 87.35 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°50' 118°38'; January 18, 1953; 1155 GCT; wire angle: 0°; sounding: 460 fms; depth of observation: 408 m; weather: overcast; sea: moderate; wind: 300°, force 1.

0	14.10	33.15	24.76	.000	-
10	14.12	33.18	24.78	.032	-
20	14.12	33.17	24.77	.064	-
30	14.08	33.15	24.76	.096	-
50	11.94	33.12	25.16	.156	-
75	10.68	33.29	25.52	.222	-
100	10.26	33.41	25.69	.283	-
150	8.97	34.13	26.46	.381	-
200	8.49	34.22	26.61	.458	-
250	8.22	34.25	26.67	.530	-
300	8.06	34.27	26.71	.601	-
400	7.06	34.51	27.05	.725	-

STATION 87.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°40' 118°58'; January 14, 1953; 0313 GCT; wire angle: 32°; sounding: 480 fms; depth of observation: 424 m; weather: partly cloudy; sea: moderate; wind: 270°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.77	33.15	24.83		.000	6.08
10	13.75	33.18	24.85		.031	6.02
20	13.29	33.18	24.95		.062	6.06
30	12.76	33.19	25.06		.092	5.70
50	12.16	33.22	25.20		.149	5.50
75	10.00	33.22	25.58		.214	4.60
100	9.50	33.58	25.95		.270	3.43
150	8.86	33.80	26.22		.368	2.75
200	8.43	34.06	26.49		.454	1.99
250	8.19	34.09	26.55		.531	1.89
300	7.96	34.11	26.60		.607	1.83
400	7.40	34.18	26.74		.751	1.12

STATION 87.40 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°39' 118°58'; January 18, 1953; 1521 GCT; wire angle: 10°; sounding: 400 fms; depth of observation: 604 m; weather: overcast; sea: smooth; wind: 320°, force 2.

0	14.09	33.26	24.85	.000	-
10	14.06	33.24	24.84	.031	-
20	14.03	33.24	24.84	.062	-
30	14.00	33.24	24.85	.094	-
50	11.48	33.23	25.33	.151	-
75	9.97	33.37	25.71	.214	-
100	9.45	33.65	26.01	.268	-
150	9.08	33.97	26.32	.362	-
200	8.94	34.15	26.48	.445	-
250	8.61	34.21	26.58	.523	-
300	7.94	34.24	26.71	.596	-
400	7.06	34.25	26.84	.729	-
500	6.42	34.30	26.97	.852	-
600	5.80	34.31	27.05	.965	-

STATION 87.45 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°30' 119°19'; January 14, 1953; 0744 GCT; wire angle: 27°; sounding: 900+ fms; depth of observation: 585 m; weather: partly cloudy; sea: rough; wind: 270°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.23	33.16	24.94		.000	6.35
10	13.24	33.22	24.99		.030	6.57
20	12.89	33.24	25.07		.059	5.92
30	12.47	33.25	25.16		.088	5.68
50	11.78	33.27	25.31		.143	5.40
75	10.18	33.40	25.69		.206	4.07
100	9.37	33.63	26.01		.260	3.32
150	9.03	33.93	26.30		.355	2.56
200	8.68	34.05	26.45		.440	2.03
250	8.26	34.11	26.56		.519	1.56
300	8.03	34.20	26.66		.593	1.40
400	7.44	34.28	26.81		.730	0.74
500	6.52	34.28	26.94		.856	0.55
600	(5.88)	(34.33)	(27.06)		(.970)	-

STATION 87.45 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°30' 119°20'; January 18, 1953; 1843 GCT; wire angle: 8°; sounding: 960 fms; depth of observation: 604 m; weather: cloudy; sea: rough; wind: 290°, force 3.

0	13.88	33.20	24.84		.000	-
10	13.86	33.26	24.89		.031	-
20	13.82	33.25	24.89		.062	-
30	12.20	33.26	25.22		.091	-
50	11.00	33.40	25.55		.143	-
75	9.72	33.56	25.90		.200	-
100	9.38	33.67	26.04		.252	-
150	8.94	33.99	26.36		.344	-
200	8.46	34.13	26.54		.425	-
250	8.06	34.19	26.65		.500	-
300	7.75	34.23	26.73		.570	-
400	7.18	34.30	26.86		.702	-
500	6.24	34.33	27.01		.821	-
600	5.74	34.36	27.10		.930	-

STATION 87.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°20' 119°40'; January 14, 1953; 1240 GCT; wire angle: 8°; sounding: 40 fms; depth of observation: 30 m; weather: clear; 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	12.92	33.23	25.06		.000	6.35
10	12.92	33.22	25.05		.029	5.94
20	12.92	33.20	25.04		.058	5.85
30	12.82	33.23	25.08		.088	5.74

STATION 87.50 (Interpolated Values at Standard Depths)

E. W. SCRIPPS: 33°22' 119°38'; January 18, 1953; 2142 GCT; wire angle: 10°; sounding: 54 fms; depth of observation: 74 m; weather: cloudy; sea: very rough; wind: 300°, force 5.

0	12.25	33.30	25.24	.000	-
10	12.24	33.26	25.21	.028	-
20	11.96	33.28	25.28	.055	-
30	11.42	33.30	25.40	.081	-
50	11.01	33.35	25.51	.132	-
75	(9.80)	(33.52)	(25.85)	(.190)	-

STATION 87.55 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°10' 120°00'; January 14, 1953; 1550 GCT; wire angle: 30°; sounding: 670 fms; depth of observation: 596 m; weather: partly cloudy; sea: rough; wind: 270°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.08	33.26	25.05		.000	6.26
10	13.10	33.27	25.05		.029	5.96
20	13.10	33.25	25.04		.058	5.94
30	12.68	33.30	25.16		.087	5.69
50	10.40	33.35	25.62		.139	4.33
75	9.59	33.62	25.96		.195	4.07
100	9.16	33.67	26.07		.245	4.38
150	8.72	33.84	26.28		.339	3.08
200	8.04	33.98	26.49		.423	2.72
250	7.53	34.08	26.64		.499	2.34
300	7.23	34.11	26.71		.570	2.08
400	6.61	34.21	26.87		.702	0.77
500	6.18	34.28	26.98		.822	0.44
600	(5.63)	(34.34)	(27.10)		(.932)	(0.38)

STATION 87.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°00' 120°22'; January 14, 1953; 1947 GCT; wire angle: 6°; sounding: 350 fms; depth of observation: 251 m; weather: partly cloudy; sea: moderate; wind: 270°, force 6.

0	13.03	33.27	25.07		.000	6.24
10	13.01	33.26	25.06		.029	6.19
20	13.00	33.26	25.07		.058	6.00
30	12.50	33.27	25.17		.087	5.75
50	11.12	33.36	25.50		.140	4.41
75	9.33	33.62	26.01		.196	3.37
100	9.03	33.71	26.12		.246	3.33
150	8.42	33.93	26.39		.335	2.78
200	7.77	34.07	26.60		.414	2.05
250	7.47	34.13	26.69		.486	1.61

STATION 90.28 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°28' 117°47'; January 17, 1953; 1055 GCT; wire angle: 0°; sounding: 50 fms; depth of observation: 75 m; weather: clear; sea: calm; wind: 40°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.18	33.18	24.77		.000	5.89
10	14.06	33.18	24.79		.032	5.65
20	13.52	33.19	24.91		.063	5.50
30	12.38	33.22	25.16		.092	5.25
50	10.82	33.34	25.54		.145	4.24
75	10.24	33.49	25.75		.204	3.68

STATION 90.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°24' 117°55'; January 17, 1953; 0853 GCT; wire angle: 0°; sounding: 340 fms; depth of observation: 504 m; weather: partly cloudy; sea: smooth; wind: 140°, force 1.

0	14.33	33.20	24.75		.000	6.07
10	14.34	33.25	24.79		.032	6.04
20	14.33	33.24	24.78		.064	6.08
30	14.31	33.20	24.75		.096	6.07
50	11.32	33.14	25.29		.155	5.11
75	10.63	33.31	25.55		.219	4.38
100	9.94	33.51	25.82		.278	4.07
150	9.06	33.77	26.17		.380	2.94
200	8.85	34.08	26.44		.468	2.25
250	8.56	34.13	26.53		.548	1.75
300	8.06	34.16	26.63		.624	1.13
400	7.26	34.23	26.80		.763	0.79
500	6.46	34.28	26.95		.889	0.43

STATION 90.37 (Interpolated Values at Standard Depths)

YELLOWFIN: 33°11' 118°24'; January 17, 1953; 0424 GCT; wire angle: 6°; sounding: 640 fms; depth of observation: 986 m; weather: partly cloudy; sea: smooth; wind: 270°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.56	33.32	24.79		.000	5.46
10	14.56	33.28	24.76		.032	5.72
20	14.53	33.29	24.78		.064	5.76
30	14.47	33.29	24.79		.096	5.74
50	11.93	33.19	25.22		.155	5.17
75	10.90	33.32	25.51		.221	4.28
100	9.79	33.65	25.95		.278	3.82
150	9.02	33.81	26.20		.376	2.89
200	8.72	34.09	26.47		.463	2.33
250	8.50	34.15	26.55		.541	1.64
300	7.98	34.19	26.66		.616	1.24
400	7.22	34.25	26.82		.753	0.72
500	6.52	34.25	26.91		.879	0.56
600	5.84	34.30	27.04		.995	0.34
700	5.30	34.38	27.17		1.099	0.34
800	4.74	34.41	27.26		1.194	0.34
1000	(4.21)	(34.43)	(27.33)		(1.369)	(0.42)

STATION 90.45 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°54' 118°56'; January 16, 1953; 2310, 2346 GCT; wire angle: 15°, 18°; sounding: 900 fms; depth of observation: 521 m; weather: partly cloudy; sea: smooth; wind: 270°, force 1.

0	14.56	33.23	24.72		.000	5.85
10	14.21	33.26	24.82		.032	5.88
20	14.20	33.29	24.85		.063	6.18
30	14.21	33.30	24.85		.094	5.92
50	12.50	33.24	25.15		.154	5.94
75	10.76	33.36	25.56		.220	4.44
100	10.06	33.63	25.89		.277	3.95
150	9.06	34.01	26.35		.373	3.22
200	8.46	33.96	26.41		.458	2.69
250	7.98	34.08	26.58		.537	1.96
300	7.79	34.17	26.67		.610	1.16
400	6.82	34.25	26.87		.744	0.55
500	6.24	34.30	26.99		.863	0.39

STATION 90.53 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°38' 119°29'; January 16, 1953; 1816 GCT; wire angle: 8°; sounding: 740 fms; depth of observation: 1004 m; weather: partly cloudy; sea: smooth; 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	13.08	33.20	25.00		.000	5.83
10	13.02	33.23	25.04		.029	5.78
20	13.02	33.23	25.04		.059	5.92
30	13.00	33.21	25.03		.088	5.93
50	12.00	33.16	25.18		.146	5 32
75	10.24	33.45	25.72		.209	4.12
100	9.44	33.67	26.03		.263	3.93
150	8.50	33.91	26.36		.356	2.61
200	7.98	34.04	26.54		.437	2.28
250	7.52	34.11	26.67		.511	1.86
300	7.12	34.15	26.75		.580	1.50
400	6.63	34.30	26.94		.706	0.73
500	6.15	34.34	27.03		.821	0.66
600	5.54	34.37	27.13		.926	0.46
700	5.19	34.39	27.19		1.025	0.38
800	4.80	34.42	27.26		1.119	0.40
1000	3.93	34.48	27.40		1.287	0.61

STATION 90.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°23' 119°59'; January 16, 1953; 1435 GCT; wire angle: 2°; sounding: 700 fms; depth of observation: 592 m; weather: clear; sea: slight; wind: 320°, force 4.

0	13.01	33.23	25.04		.000	6.09
10	13.02	33.21	25.02		.029	5.80
20	13.02	33.13	24.96		.059	6.21
30	13.02	33.14	24.97		.089	6.04
50	12.03	33.16	25.18		.147	5.49
75	10.88	33.20	25.42		.215	4.99
100	9.99	33.36	25.70		.276	4.08
150	8.57	33.92	26.36		.377	3.05
200	8.02	34.03	26.53		.458	2.40
250	7.63	34.08	26.63		.533	1.89
300	7.21	34.12	26.72		.604	1.42
400	6.38	34.22	26.91		.734	0.92
500	5.96	(34.29)	(27.02)		(.850)	0.61
600	(5.49)	(34.34)	(27.12)		(.957)	(0.32)

STATION 90.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°04' 120°39'; January 16, 1953; 0649, 0715 GCT; wire angle: 48°, 48°; sounding: 1000+ fms; depth of observation: 834 m; weather: clear; sea: rough; wind: 360°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.93	33.06	24.72		.000	6.01
10	13.93	33.08	24.74		.032	5.93
20	13.93	33.08	24.74		.065	5.96
30	13.93	33.09	24.75		.097	5.89
50	13.92	33.08	24.74		.161	5.91
75	13.40	33.08	24.85		.241	5.65
100	10.50	33.10	25.41		.312	5.11
150	9.12	33.63	26.05		.427	4.66
200	8.28	34.00	26.47		.517	2.85
250	7.84	34.14	26.64		.594	2.11
300	7.50	34.24	26.77		.663	1.26
400	6.70	34.34	26.96		.788	0.85
500	6.19	34.38	27.06		.900	0.52
600	5.76	34.39	27.12		1.005	0.51
700	5.24	(34.39)	(27.19)		(1.105)	0.66
800	4.73	(34.40)	(27.25)		(1.200)	0.59

STATION 90.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°45' 121°19'; January 15, 1953; 2302 GCT; wire angle: 20°; sounding: 1000+ fms; depth of observation: 688 m; weather: partly cloudy; sea: rough; wind: 330°, force 6.

0	14.05	33.09	24.72	.000	5.87
10	14.06	33.08	24.71	.032	5.82
20	14.06	33.07	24.71	.065	5.84
30	14.05	33.07	24.71	.097	5.83
50	14.05	33.04	24.68	.163	5.75
75	12.28	33.02	25.02	.241	5.86
100	10.74	33.12	25.38	.311	5.10
150	9.22	33.56	25.98	.428	3.76
200	8.39	33.85	26.33	.523	2.94
250	7.89	34.00	26.53	.605	2.12
300	7.31	34.08	26.67	.680	1.56
400	6.64	34.17	26.84	.815	1.03
500	6.08	34.27	26.99	.936	0.48
600	5.38	(34.31)	27.11	(1.045)	0.38
700	(4.90)	(34.35)	(27.19)	(1.145)	-

STATION 90.90 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°25' 121°59'; January 15, 1953; 1418 GCT; wire angle: 50°; sounding: 1000+ fms; depth of observation: 824 m; weather: partly cloudy; sea: rough; wind: 340°, force 5-6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5 s$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.32	33.20	24.54		.000	5.92
10	15.35	33.22	24.55		.034	6.00
20	15.31	33.21	24.55		.068	5.84
30	15.12	33.20	24.58		.102	5.85
50	13.62	33.08	24.80		.167	5.85
75	11.30	32.93	25.13		.243	5.83
100	9.66	33.11	25.56		.309	5.34
150	9.16	33.72	26.11		.419	3.59
200	8.36	34.00	26.46		.508	2.45
250	7.61	34.07	26.62		.585	1.96
300	7.13	34.09	26.71		.656	1.60
400	6.47	34.18	26.87		.789	1.09
500	5.68	34.23	27.01		.907	0.85
600	5.25	34.33	27.14		1.014	0.43
700	4.90	34.41	27.24		1.110	0.43
800	4.53	34.44	27.31		1.198	0.38

STATION 93.27 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°56' 117°19'; January 17, 1953; 1539 GCT; wire angle: 2°; sounding: 125 fms; depth of observation: 155 m; weather: partly cloudy; sea: smooth; wind: 90°, force 2.

0	14.38	33.19	24.73		.000	5.97
10	14.40	33.24	24.77		.032	5.76
20	14.40	33.17	24.71		.064	5.50
30	12.20	33.17	25.15		.095	5.24
50	10.92	33.33	25.51		.148	4.38
75	10.08	33.63	25.89		.206	3.41
100	9.92	33.72	25.99		.258	3.04
150	9.52	33.96	26.24		.355	2.39

STATION 93.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°50' 117°32'; January 17, 1953; 1757 GCT; wire angle: 1°; sounding: 500 fms; depth of observation: 609 m; weather: partly cloudy; sea: smooth; wind: 90°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.58	33.26	24.74		.000	5.72
10	14.54	33.24	24.74		.032	5.97
20	14.53	33.26	24.75		.064	5.84
30	14.51	33.24	24.74		.096	5.63
50	11.70	33.15	25.23		.156	5.11
75	10.30	33.38	25.66		.220	4.30
100	10.19	33.65	25.89		.276	3.30
150	9.96	33.98	26.18		.377	2.11
200	9.25	34.05	26.36		.467	2.18
250	8.93	34.21	26.53		.548	1.73
300	8.22	34.24	26.67		.623	1.25
400	7.30	34.25	26.81		.761	0.90
500	6.53	34.29	26.94		.886	0.47
600	5.82	34.37	27.10		.998	0.29

STATION 93.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°30' 118°12'; January 17, 1953; 2312 GCT; wire angle: 15°; sounding: 980 fms; depth of observation: 650 m; weather: cloudy; sea: moderate; wind: 270°, force 3.

0	14.59	33.27	24.75		.000	5.64
10	14.56	33.28	24.76		.032	5.75
20	14.48	33.26	24.76		.064	5.75
30	14.42	33.26	24.78		.096	5.75
50	12.00	33.19	25.21		.156	5.15
75	10.25	33.27	25.58		.221	4.65
100	10.15	33.69	25.92		.277	3.80
150	9.76	33.99	26.22		.376	2.51
200	8.89	34.04	26.40		.464	2.36
250	8.30	34.12	26.56		.543	1.95
300	7.85	34.18	26.67		.617	1.32
400	7.00	34.23	26.83		.753	0.56
500	6.39	34.31	26.98		.875	0.41
600	5.82	34.41	27.13		.984	0.38

STATION 93.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°10' 118°54'; January 18, 1953; 0450 GCT; wire angle: 36°; sounding: 720 fms; depth of observation: 533 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.63	33.14	24.64		.000	5.56
10	14.65	33.12	24.62		.033	5.72
20	14.65	33.14	24.64		.066	5.65
30	14.65	33.14	24.64		.100	5.74
50	13.70	33.06	24.77		.165	5.75
75	11.20	33.14	25.31		.238	5.13
100	9.81	33.21	25.61		.302	4.42
150	8.84	33.71	26.15		.410	3.28
200	8.12	33.90	26.41		.498	2.70
250	8.06	34.12	26.60		.577	1.48
300	7.65	34.19	26.71		.649	1.05
400	6.85	34.21	26.84		.783	0.60
500	6.18	(34.25)	(26.96)		(.905)	(0.45)

STATION 93.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°50' 119°34'; January 18, 1953; 1031 GCT; wire angle: 22°; sounding: 1000+ fms; depth of observation: 644 m; weather: clear; sea: rough; wind: 270°, force 5.

0	14.91	33.18	24.61	.000	5.96
10	14.92	33.18	24.61	.033	5.90
20	14.93	33.18	24.61	.067	6.00
30	14.93	33.16	24.59	.100	5.80
50	14.93	33.14	24.58	.168	5.81
75	11.55	33.02	25.16	.246	5.72
100	10.11	33.11	25.48	.313	5.00
150	8.93	33.69	26.13	.424	3.46
200	8.19	33.97	26.46	.513	2.36
250	7.93	34.13	26.62	.590	1.57
300	7.61	34.18	26.71	.661	1.23
400	6.98	34.26	26.86	.794	0.60
500	6.31	34.31	26.99	.914	0.36
600	5.63	34.34	27.10	1.024	0.30

STATION 97.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°15' 117°09'; January 19, 1953; 0953 GCT; wire angle: 0°; sounding: 33 fms; depth of observation: 30 m; weather: clear; sea: calm; wind: 45°, force 1.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	13.97	33.21	24.83		.000	5.97
10	13.96	33.22	24.84		.031	5.72
20	13.94	33.22	24.85		.062	5.76
30	13.38	33.25	24.98		.093	5.49

STATION 97.32 (Interpolated Values at Standard Depths)

YELLOWFIN: 32°12' 117°17'; January 19, 1953; 0755 GCT; wire angle: 10°; sounding: 700 fms; depth of observation: 587 m; weather: partly cloudy; sea: smooth; wind: calm.

0	14.74	33.25	24.70		.000	5.87
10	14.77	33.25	24.69		.033	5.78
20	14.70	33.23	24.69		.065	5.75
30	14.57	33.19	24.69		.098	5.69
50	11.74	33.18	25.25		.158	5.25
75	10.80	33.29	25.50		.224	3.98
100	10.25	33.64	25.87		.282	3.20
150	9.30	33.88	26.21		.382	2.75
200	8.50	34.03	26.46		.468	2.60
250	8.08	34.08	26.56		.547	2.01
300	8.22	34.21	26.64		.622	1.02
400	7.19	34.22	26.80		.761	0.70
500	6.33	34.24	26.93		.887	0.46
600	(6.01)	(34.31)	(27.03)		(1.003)	-

STATION 97.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°56' 117°50'; January 19, 1953; 0316 GCT; wire angle: 21°; sounding: 900 fms; depth of observation: 586 m; weather: overcast; sea: slight; wind: 320°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.66	33.32	24.77		.000	5.77
10	14.67	33.28	24.74		.032	5.85
20	14.64	33.36	24.81		.064	5.86
30	14.64	33.30	24.76		.096	5.80
50	12.28	33.19	25.15		.156	5.16
75	11.03	33.34	25.50		.223	4.49
100	10.61	33.59	25.77		.282	2.77
150	10.45	34.01	26.12		.387	2.28
200	9.26	34.02	26.33		.479	2.57
250	8.78	34.17	26.52		.562	1.81
300	8.39	34.20	26.61		.638	1.23
400	7.23	34.23	26.80		.779	0.77
500	6.10	34.27	26.98		.902	0.60
600	(5.52)	(34.32)	(27.10)		(1.012)	-

STATION 97.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°36' 118°30'; January 18, 1953; 2146 GCT; wire angle: 30°; sounding: 950 fms; depth of observation: 590 m; weather: overcast; sea: moderate; wind: 270°, force 4.

0	14.24	33.21	24.78		.000	5.98
10	14.24	33.18	24.75		.032	6.00
20	14.24	33.22	24.78		.064	6.00
30	14.22	33.21	24.78		.096	5.96
50	13.15	33.06	24.88		.158	5.93
75	11.00	33.20	25.40		.230	4.78
100	10.14	33.41	25.71		.291	4.12
150	8.92	33.75	26.17		.396	3.45
200	8.81	34.04	26.42		.484	2.47
250	8.32	34.14	26.57		.564	1.79
300	7.99	34.24	26.70		.637	1.30
400	7.11	34.30	26.87		.769	0.64
500	6.27	34.35	27.03		.887	0.44
600	(5.70)	(34.36)	(27.11)		(.995)	(0.34)

STATION 97.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°16' 119°10'; January 18, 1953; 1617 GCT; wire angle: 10°; sounding: 1000+ fms; depth of observation: 641 m; weather: overcast; sea: moderate; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.71	33.14	24.62		.000	5.56
10	14.72	33.14	24.62		.033	5.70
20	14.70	33.14	24.62		.067	5.61
30	14.70	33.13	24.62		.100	5.72
50	14.69	33.10	24.60		.167	5.83
75	11.30	33.04	25.22		.244	5.85
100	10.10	33.14	25.51		.310	4.82
150	8.98	33.66	26.09		.421	3.61
200	8.55	33.94	26.38		.512	2.74
250	8.04	34.05	26.54		.593	2.21
300	7.86	34.16	26.66		.668	1.45
400	7.17	34.25	26.83		.805	0.75
500	6.08	34.25	26.97		.927	0.43
600	5.36	34.30	27.10		1.038	0.36

STATION 100.29 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°42' 116°43'; January 19, 1953; 1418 GCT; wire angle: 0°; sounding: 74 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; wind: 320°, force 1.

0	12.91	33.25	25.08		.000	5.71
10	12.85	33.36	25.17		.028	5.51
20	12.81	33.30	25.13		.057	5.73
30	12.16	33.32	25.28		.084	4.68
50	10.79	33.49	25.66		.135	3.72

STATION 100.30 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°40' 116°46'; January 19, 1953; 1519 GCT; wire angle: 3°; sounding: 230 fms; depth of observation: 203 m; weather: partly cloudy; sea: smooth; 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	13.18	33.24	25.02		.000	5.43
10	13.16	33.26	25.03		.029	5.46
20	12.22	33.26	25.22		.058	4.95
30	11.58	33.26	25.34		.085	4.49
50	10.70	33.58	25.74		.134	3.53
75	9.96	33.77	26.02		.188	2.85
100	9.66	33.90	26.17		.236	2.51
150	9.44	34.11	26.37		.325	1.98
200	8.95	34.18	26.50		.407	1.62

STATION 100.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°21' 117°27'; January 19, 1953; 2034, 2048 GCT; wire angle: 12°, 10°; sounding: 970 fms; depth of observation: 1196 m; weather: cloudy; sea: moderate; wind: 270°, force 3.

0	14.71	33.27	24.72		.000	5.96
10	14.71	33.26	24.71		.032	6.20
20	14.72	33.26	24.71		.065	6.08
30	14.70	33.26	24.72		.097	5.98
50	14.05	33.26	24.85		.161	5.96
75	10.92	33.34	25.52		.231	4.47
100	10.54	33.67	25.84		.289	3.42
150	9.30	33.82	26.17		.391	3.02
200	8.72	34.00	26.40		.480	2.26
250	8.35	34.12	26.55		.560	1.89
300	7.90	34.16	26.65		.635	1.36
400	6.80	34.18	26.82		.772	0.90
500	6.20	34.32	27.01		.893	0.41
600	5.70	34.36	27.11		1.002	0.32
700	5.18	34.38	27.18		1.102	0.32
800	4.74	34.39	27.24		1.197	0.36
1000	4.03	34.45	27.37		1.370	0.62

STATION 100.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 31°01' 118°07'; January 20, 1953; 0243 GCT; wire angle: 16°; sounding: 750 fms; depth of observation: 647 m; weather: overcast; sea: moderate; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.72	33.28	24.73		.000	6.10
10	14.72	33.27	24.72		.032	6.02
20	14.73	33.27	24.72		.065	5.95
30	14.73	33.27	24.72		.097	5.91
50	14.72	33.26	24.71		.162	5.69
75	12.40	33.23	25.16		.238	4.93
100	11.04	33.44	25.58		.304	3.83
150	9.79	33.82	26.09		.414	3.04
200	9.10	33.99	26.33		.507	2.49
250	8.67	34.11	26.49		.590	1.99
300	7.92	34.15	26.64		.666	1.80
400	7.21	34.26	26.83		.804	0.98
500	6.38	34.31	26.98		.926	0.40
600	5.68	34.33	27.09		1.037	0.36

STATION 100.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°41' 118°48'; January 20, 1953; 0832 GCT; wire angle: 30°; sounding: 1000+ fms; depth of observation: 1046 m; weather: overcast; sea: slight; wind: 270°, force 4.

0	14.58	33.24	24.73		.000	5.77
10	14.58	33.21	24.70		.032	5.79
20	14.58	33.25	24.73		.065	5.80
30	14.55	33.26	24.75		.097	5.82
50	14.48	33.26	24.76		.161	5.73
75	11.35	33.33	25.43		.233	4.58
100	10.78	33.47	25.64		.295	3.66
150	10.09	33.81	26.03		.405	2.70
200	8.91	33.95	26.33		.499	2.57
250	8.28	34.03	26.49		.582	2.10
300	7.93	34.13	26.62		.659	1.40
400	7.09	34.24	26.83		.797	0.61
500	6.28	34.26	26.95		.921	0.41
600	5.59	34.30	27.07		1.033	0.33
700	5.00	34.36	27.19		1.135	0.33
800	4.58	34.39	27.26		1.228	0.44
1000	3.98	34.44	27.36		1.400	0.70

STATION 100.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°20' 119°27'; January 20, 1953; 1452 GCT; wire angle: 20°; sounding: 1000+ fms; depth of observation: 614 m; weather: cloudy; sea: slight; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.35	33.19	24.52		.000	5.69
10	15.36	33.20	24.53		.034	5.69
20	15.38	33.20	24.52		.068	5.73
30	15.38	33.19	24.52		.103	5.75
50	15.39	33.18	24.51		.172	5.71
75	15.00	33.17	24.58		.257	5.86
100	13.10	33.09	24.92		.338	5.86
150	9.54	33.28	25.71		.473	4.48
200	8.75	33.72	26.18		.578	3.69
250	7.96	33.95	26.48		.665	2.88
300	7.49	34.04	26.62		.742	2.37
400	6.46	34.09	26.80		.882	1.49
500	5.82	34.21	26.97		1.006	0.77
600	5.41	34.33	27.12		1.115	0.45

STATION 100.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°01' 120°07'; January 20, 1953; 2046 GCT; wire angle: 20°; sounding: 1000+ fms; depth of observation: 1201 m; weather: partly cloudy; sea: moderate; wind: 320°, force 4.

0	16.19	33.41	24.50	.000	5.66
10	16.19	33.44	24.53	.034	5.78
20	16.17	33.42	24.52	.069	5.72
30	16.14	33.40	24.51	.103	5.70
50	16.05	33.36	24.50	.172	5.71
75	15.70	33.28	24.51	.258	5.65
100	15.53	33.27	24.54	.344	5.68
150	11.12	33.28	25.44	.495	5.16
200	9.40	33.76	26.10	.608	4.09
250	8.41	33.91	26.38	.700	3.68
300	7.62	33.95	26.53	.781	3.09
400	6.64	34.12	26.80	.925	1.29
500	5.90	34.20	26.96	1.050	0.69
600	5.38	34.31	27.11	1.161	0.43
700	4.94	34.36	27.20	1.260	0.43
800	4.57	34.40	27.27	1.353	0.46
1000	3.96	34.48	27.40	1.520	0.62

STATION 100.90 (*Interpolated Values at Standard Depths*)

YELLOWFIN: 29°40' 120°47'; January 21, 1953; 0100 GCT; wire angle: 25°; sounding: 1000+ fms; depth of observation: 610 m; weather: cloudy; sea: moderate; wind: 340°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.20	33.51	24.58		.000	5.65
10	16.23	33.43	24.51		.034	5.43
20	16.28	33.43	24.50		.068	5.21
30	16.34	33.47	24.51		.103	5.51
50	16.40	33.43	24.47		.172	5.72
75	16.40	33.49	24.52		.259	5.76
100	14.10	33.19	24.79		.342	5.70
150	11.00	33.31	25.48		.485	5.11
200	9.30	33.56	25.96		.601	3.96
250	8.51	33.89	26.35		.696	3.52
300	7.70	34.00	26.55		.778	3.03
400	6.48	34.05	26.76		.922	1.59
500	5.72	34.16	26.95		1.049	0.75
600	5.31	34.27	27.08		1.161	0.38

STATION 105.32 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°45' 116°21'; January 22, 1953; 1620 GCT; wire angle: 0°; sounding: 41 fms; depth of observation: 50 m; weather: partly cloudy; sea: smooth; wind: 90°, force 1.

0	12.55	33.27	25.16	.000	5.56
10	12.56	33.26	25.15	.028	5.45
20	12.56	33.26	25.15	.056	5.46
30	12.48	33.29	25.19	.085	5.38
50	10.68	33.37	25.58	.137	5.38

STATION 105.35 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°39' 116°33'; January 22, 1953; 1414 GCT; wire angle: 1°; sounding: 520 fms; depth of observation: 616 m; weather: partly cloudy; sea: smooth; wind: 90°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.72	33.35	24.78		.000	5.74
10	14.73	33.35	24.78		.032	5.62
20	14.72	33.41	24.83		.063	5.87
30	14.72	33.42	24.84		.095	5.80
50	11.71	33.16	25.24		.154	5.47
75	10.50	33.34	25.59		.218	4.81
100	9.82	33.64	25.94		.275	3.83
150	9.12	33.99	26.33		.370	2.75
200	8.42	34.13	26.55		.452	2.41
250	8.25	34.25	26.67		.526	1.67
300	7.68	34.27	26.77		.595	1.38
400	7.30	34.47	26.98		.719	0.50
500	6.36	34.46	27.10		.829	0.38
600	5.65	34.47	27.20		.928	0.41

STATION 105.40 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°28' 116°54'; January 22, 1953; 1102 GCT; wire angle: 8°; sounding: 1000+ fms; depth of observation: 501 m; weather: clear; sea: slight; wind: 320°, force 2.

0	14.65	33.27	24.74		.000	5.94
10	14.65	33.29	24.75		.032	5.98
20	14.66	33.26	24.73		.064	5.86
30	14.67	33.29	24.75		.097	6.15
50	14.20	33.28	24.84		.160	5.88
75	10.50	33.37	25.62		.229	4.45
100	9.90	33.57	25.87		.286	3.70
150	9.26	33.88	26.22		.386	2.77
200	8.85	34.11	26.47		.472	2.35
250	8.21	34.23	26.64		.549	1.86
300	7.44	34.21	26.76		.618	1.28
400	6.65	34.28	26.92		.746	0.63
500	6.21	34.38	27.06		.860	0.41

STATION 105.50 (Interpolated Values at Standard Depths)

YELLOWFIN: 30°08' 117°34'; January 22, 1953; 0530 GCT; wire angle: 32°; sounding: 1000+ fms; depth of observation: 505 m; weather: clear; 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	15.41	33.31	24.60		.000	5.75
10	15.46	33.34	24.61		.033	5.68
20	15.51	33.35	24.61		.067	5.80
30	15.47	33.36	24.63		.100	5.75
50	15.42	33.35	24.63		.167	5.83
75	13.70	33.15	24.84		.248	5.95
100	11.90	33.33	25.33		.320	4.90
150	9.86	33.73	26.01		.438	3.45
200	8.40	33.89	26.36		.532	2.81
250	8.30	34.14	26.57		.612	2.20
300	8.02	34.18	26.65		.687	1.55
400	7.14	34.22	26.81		.825	0.83
500	6.28	34.28	26.97		.949	0.52

STATION 105.60 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°48' 118°14'; January 21, 1953; 2301 GCT; wire angle: 17°; sounding: 1000 fms; depth of observation: 646 m; weather: partly cloudy; sea: rough; wind: 340°, force 6.

0	15.71	33.41	24.61		.000	5.91
10	15.74	33.41	24.60		.033	6.00
20	15.74	33.42	24.61		.067	5.82
30	15.74	33.42	24.61		.100	5.74
50	15.72	33.40	24.60		.167	5.73
75	12.85	33.04	24.93		.248	5.93
100	10.99	33.07	25.30		.320	5.32
150	9.61	33.64	25.98		.439	4.02
200	9.13	34.02	26.35		.534	2.30
250	8.40	34.11	26.54		.615	1.80
300	7.86	34.15	26.65		.690	1.46
400	6.78	34.20	26.84		.827	0.90
500	6.03	34.26	26.99		.948	0.43
600	5.47	34.30	27.09		1.058	0.33

STATION 105.70 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°29' 118°54'; January 21, 1953; 1605 GCT; wire angle: 38°; sounding: 1000+ fms; depth of observation: 529 m; weather: clear; 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	14.86	33.21	24.64		.000	5.68
10	14.87	33.19	24.63		.033	5.75
20	14.88	33.20	24.63		.066	5.70
30	14.88	33.19	24.62		.100	5.74
50	14.87	33.18	24.62		.166	5.75
75	13.30	33.03	24.83		.248	5.80
100	11.35	33.02	25.19		.322	5.44
150	9.64	33.52	25.88		.446	4.32
200	8.43	33.85	26.33		.544	3.22
250	8.09	33.94	26.45		.628	3.22
300	7.75	34.05	26.59		.706	2.20
400	6.98	34.24	26.84		.846	0.80
500	6.22	34.27	26.97		.968	0.44

STATION 105.80 (Interpolated Values at Standard Depths)

YELLOWFIN: 29°09' 119°34'; January 21, 1953; 0935 GCT; wire angle: 30°; sounding: 1000+ fms; depth of observation: 579 m; weather: drizzle; sea: moderate; wind: 320°, force 5.

0	15.49	33.26	24.55		.000	5.69
10	15.49	33.25	24.54		.034	5.93
20	15.49	33.26	24.55		.068	6.03
30	15.49	33.26	24.55		.102	5.92
50	15.45	33.26	24.55		.170	6.05
75	14.55	33.36	24.83		.252	6.38
100	12.85	33.26	25.10		.328	5.73
150	10.90	33.50	25.65		.460	4.70
200	9.08	33.82	26.20		.566	3.89
250	8.26	33.96	26.44		.654	3.12
300	7.71	34.05	26.59		.732	2.23
400	7.22	34.26	26.83		.872	0.91
500	6.23	34.27	26.97		.995	0.56
600	(5.56)	(34.31)	(27.08)		(1.106)	-

STATION 110.50 (Interpolated Values at Standard Depths)

CREST: 29°17' 116°59'; January 20, 1953; 1155 GCT; wire angle: 25°; sounding: 1670 fms; depth of observation: 1073 m; weather: 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	16.08	33.46	24.57		.000	5.83
10	16.12	33.42	24.53		.034	5.76
20	16.12	33.43	24.53		.068	5.70
30	16.12	33.45	24.55		.102	5.63
50	16.11	33.47	24.57		.170	5.53
75	16.12	33.45	24.55		.255	5.36
100	16.08	33.42	24.54		.341	5.46
150	12.13	33.44	25.37		.493	4.59
200	10.14	33.83	26.04		.610	2.93
250	9.57	34.12	26.36		.704	2.05
300	9.08	34.21	26.51		.787	1.50
400	7.33	34.21	26.77		.933	0.99
500	6.30	34.23	26.93		1.061	0.58
600	5.82	34.33	27.07		1.175	0.37
700	5.38	34.38	27.16		1.279	0.34
800	4.91	34.40	27.23		1.376	0.35
1000	4.18	34.43	27.34		1.553	0.48

STATION 110.60 (Interpolated Values at Standard Depths)

CREST: 28°56' 117°39'; January 20, 1953; 0609 GCT; wire angle: 20°; sounding: 2000 fms; depth of observation: 608 m; weather: partly cloudy; sea: very rough; wind: 330°, force 5.

0	15.65	33.43	24.64		.000	5.74
10	15.66	33.42	24.63		.033	5.65
20	15.67	33.41	24.62		.066	5.54
30	15.68	33.43	24.63		.100	5.68
50	15.68	33.44	24.64		.166	5.55
75	14.03	33.35	24.93		.246	5.40
100	12.05	33.29	25.27		.318	4.78
150	10.34	33.73	25.92		.439	3.04
200	9.41	34.06	26.34		.536	2.58
250	9.43	34.29	26.51		.619	1.45
300	8.56	34.26	26.63		.695	1.25
400	7.65	34.32	26.81		.834	0.64
500	6.79	34.37	26.97		.958	0.35
600	6.07	34.38	27.08		1.070	0.27

STATION 110.70 (Interpolated Values at Standard Depths)

CREST: 28°37' 118°18'; January 20, 1953; 0032 GCT; wire angle: 15°; sounding: 1900+ fms; depth of observation: 1216 m; weather: cloudy; sea: very 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	15.66	33.42	24.63		.000	5.85
10	15.67	33.43	24.64		.033	5.73
20	15.64	33.44	24.65		.066	5.75
30	15.62	33.44	24.65		.099	5.75
50	15.58	33.44	24.66		.165	5.71
75	14.05	33.36	24.93		.245	5.30
100	11.97	33.37	25.35		.316	4.57
150	9.83	33.76	26.03		.433	3.26
200	9.37	34.07	26.35		.526	2.41
250	8.36	34.14	26.57		.607	1.91
300	8.20	34.28	26.70		.681	1.18
400	7.02	34.26	26.85		.814	0.84
500	6.52	34.36	27.00		.934	0.40
600	5.50	34.38	27.15		1.041	0.31
700	4.96	34.42	27.24		1.137	0.32
800	4.59	34.47	27.32		1.225	0.42
1000	3.95	34.52	27.43		1.384	0.65

STATION 110.80 (Interpolated Values at Standard Depths)

CREST: 28°17' 118°55'; January 19, 1953; 1915 GCT; wire angle: 19°; sounding: 2150 fms; depth of observation: 602 m; weather: cloudy; sea: rough; wind: 340°, force 4.

0	15.83	33.31	24.51		.000	5.50
10	15.84	33.32	24.51		.034	5.50
20	15.85	33.32	24.51		.069	5.55
30	15.84	33.32	24.51		.103	5.57
50	15.84	33.31	24.51		.172	5.66
75	13.67	33.19	24.88		.254	5.80
100	11.25	33.13	25.30		.326	5.47
150	9.87	33.58	25.89		.448	3.89
200	8.63	33.93	26.36		.545	3.23
250	8.13	34.07	26.55		.626	2.21
300	7.93	34.16	26.65		.701	1.40
400	6.98	34.21	26.82		.838	0.74
500	5.95	34.23	26.97		.961	0.54
600	5.45	34.33	27.11		1.071	0.39

STATION 113.30 (Interpolated Values at Standard Depths)

CREST: 29°17' 115°20'; January 20, 1953; 1843 GCT; wire angle: 10°; sounding: 56 fms; depth of observation: 50 m; weather: clear; sea: very rough; wind: 330°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.80	33.54	24.91		.000	5.35
10	14.80	33.52	24.90		.031	5.24
20	14.78	33.57	24.94		.061	5.36
30	14.20	33.53	25.03		.091	4.39
50	12.54	33.56	25.39		.147	3.41

STATION 113.35 (Interpolated Values at Standard Depths)

CREST: 29°12' 115°39'; January 21, 1953; 2112 GCT; wire angle: 30°; sounding: 500 fms; depth of observation: 614 m; weather: partly cloudy; sea: high; wind: 330°, force 6.

0	13.11	33.44	25.18	.000	5.56
10	13.17	33.42	25.16	.028	5.50
20	13.07	33.42	25.18	.056	5.44
30	13.03	33.43	25.19	.084	4.89
50	10.84	33.81	25.90	.133	3.00
75	10.61	33.91	26.02	.185	2.43
100	10.30	33.81	25.99	.236	1.65
150	9.97	34.20	26.35	.330	1.69
200	9.67	34.29	26.47	.413	1.18
250	9.00	34.34	26.62	.490	0.83
300	8.52	34.31	26.67	.562	0.65
400	7.56	34.32	26.83	.699	0.41
500	6.76	34.33	26.95	.823	0.28
600	6.10	34.34	27.04	.938	0.24

STATION 113.50 (Interpolated Values at Standard Depths)

CREST: 28°42' 116°37'; January 20, 1953; 1645 GCT; wire angle: 25°; sounding: 2000+ fms; depth of observation: 552 m; weather: overcast; sea: rough; wind: 360°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	15.96	33.44	24.58		.000	5.60
10	15.94	33.42	24.57		.034	5.31
20	16.00	33.43	24.56		.068	5.70
30	16.00	33.44	24.57		.101	5.77
50	15.99	33.40	24.54		.170	5.24
75	15.97	33.43	24.57		.255	5.62
100	14.60	33.42	24.86		.336	5.72
150	10.70	33.64	25.79		.471	4.16
200	10.45	33.93	26.06		.577	2.86
250	9.29	34.04	26.34		.670	2.36
300	8.56	34.15	26.54		.753	1.76
400	7.03	34.16	26.77		.898	1.05
500	6.32	34.20	26.90		1.026	0.65

STATION 117.26 (Interpolated Values at Standard Depths)

CREST: 28°55' 114°44'; January 21, 1953; 1250 GCT; wire angle: 5°; sounding: 47 fms; depth of observation: 50 m; weather: cloudy; sea: rough; wind: 320°, force 5.

0	15.06	33.44	24.78		.000	5.56
10	15.07	33.50	24.82		.032	5.38
20	15.07	33.51	24.83		.063	5.60
30	14.99	33.51	24.85		.094	5.40
50	13.37	33.51	25.19		.153	4.62

STATION 117.30 (Interpolated Values at Standard Depths)

CREST: 28°48' 114°56'; January 21, 1953; 1040 GCT; wire angle: 13°; sounding: 55 fms; depth of observation: 73 m; weather: overcast; sea: very rough; wind: 320°, force 6.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	14.44	33.49	24.95		.000	5.75
10	14.47	33.48	24.93		.030	5.90
20	14.48	33.49	24.94		.061	5.58
30	14.45	33.51	24.96		.091	5.63
50	13.45	33.50	25.16		.149	5.17
75	(11.66)	(33.53)	(25.53)		(.215)	(4.14)

STATION 117.35 (Interpolated Values at Standard Depths)

CREST: 28°39' 115°17'; January 21, 1953; 0710 GCT; wire angle: 30°; sounding: 130 fms; depth of observation: 185 m; weather: cloudy; sea: very rough; wind: 310°, force 5.

0	14.91	33.46	24.83	.000	5.92
10	14.95	33.44	24.80	.031	5.35
20	14.95	33.47	24.82	.063	5.55
30	14.87	33.47	24.84	.094	5.46
50	14.13	33.44	24.98	.156	4.82
75	11.74	33.59	25.56	.224	3.66
100	10.80	33.83	25.92	.281	2.82
150	10.42	34.24	26.31	.377	1.40

STATION 117.40 (Interpolated Values at Standard Depths)

CREST: 28°28' 115°35'; January 21, 1953; 0318, 0335 GCT; wire angle: 29°, 32°; sounding: 500 fms; depth of observation: 442 m; weather: overcast; 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	14.95	33.43	24.79		.000	6.61
10	14.99	33.44	24.79		.032	5.99
20	14.99	33.46	24.81		.063	5.86
30	14.98	33.43	24.79		.095	5.72
50	12.70	33.40	25.23		.154	4.62
75	11.40	33.58	25.62		.219	3.65
100	11.16	33.78	25.82		.276	3.06
150	10.91	34.12	26.13		.380	1.96
200	10.63	34.28	26.30		.472	1.34
250	9.89	34.44	26.55		.555	0.70
300	8.76	34.37	26.68		.629	0.68
400	7.73	34.33	26.81		.766	0.45

STATION 117.50 (Interpolated Values at Standard Depths)

CREST: 28°08' 116°15'; January 20, 1953; 2135 GCT; wire angle: 15°; sounding: 2000+ fms; depth of observation: 610 m; weather: cloudy; sea: rough; wind: 340°, force 4.

0	15.66	33.55	24.73		.000	5.57
10	15.68	33.58	24.75		.032	5.68
20	15.64	33.58	24.76		.064	5.50
30	15.62	33.56	24.75		.096	5.50
50	15.47	33.58	24.80		.160	5.40
75	12.55	33.41	25.27		.234	4.45
100	11.21	33.50	25.59		.298	4.27
150	10.21	33.86	26.05		.409	2.67
200	10.21	34.24	26.34		.503	1.54
250	9.61	34.35	26.53		.585	1.13
300	8.87	34.34	26.64		.661	0.82
400	7.85	34.36	26.81		.799	0.47
500	6.73	34.37	26.98		.923	0.43
600	6.38	34.38	27.04		1.037	0.26

STATION 120.25 (Interpolated Values at Standard Depths)

CREST: 28°23' 114°15'; January 17, 1953; 2216 GCT; wire angle: 2°; sounding: 33 fms; depth of observation: 50 m; weather: partly cloudy; sea: moderate; 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	15.74	33.61	24.76		.000	5.56
10	15.50	33.59	24.80		.032	5.45
20	15.47	33.58	24.80		.063	5.34
30	15.49	33.57	24.78		.095	5.64
50	14.04	33.52	25.06		.156	3.84

STATION 120.30 (Interpolated Values at Standard Depths)

CREST: 28°13' 114°34'; January 18, 1953; 0057 GCT; wire angle: 5°; sounding: 50 fms; depth of observation: 75 m; weather: partly cloudy; sea: slight; wind: 320°, force 5.

0	15.40	33.54	24.78		.000	5.66
10	15.34	33.55	24.80		.032	5.60
20	15.16	33.55	24.84		.063	5.40
30	15.17	33.55	24.84		.094	5.82
50	15.04	33.54	24.86		.157	5.35
75	12.52	33.60	25.42		.228	2.78

STATION 120.35 (Interpolated Values at Standard Depths)

CREST: 28°03' 114°54'; January 18, 1953; 0332 GCT; wire angle: 3°; sounding: 45 fms; depth of observation: 75 m; weather: clear; sea: moderate; wind: 340°, force 4.

0	15.38	33.55	24.79		.000	5.83
10	15.42	33.54	24.78		.032	5.83
20	15.25	33.53	24.81		.063	5.78
30	15.22	33.52	24.80		.095	5.64
50	15.20	33.54	24.82		.158	5.45
75	12.62	33.51	25.33		.231	3.13

STATION 120.45 (*Interpolated Values at Standard Depths*)

CREST: 27°43' 115°33'; January 18, 1953; 0850 GCT; wire angle: 35°; sounding: 1350 fms; depth of observation: 853 m; weather: clear; sea: moderate; 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	16.21	33.74	24.75		.000	5.78
10	16.21	33.72	24.74		.032	5.80
20	16.21	33.74	24.75		.064	5.71
30	16.21	33.75	24.76		.096	5.72
50	16.20	33.63	24.67		.161	5.19
75	13.50	33.68	25.29		.236	3.60
100	12.93	33.96	25.62		.300	2.40
150	11.20	34.22	26.15		.408	1.77
200	10.62	34.47	26.45		.496	1.39
250	9.82	34.38	26.52		.577	1.18
300	9.28	34.42	26.64		.653	0.92
400	8.26	34.44	26.82		.792	0.32
500	6.88	34.41	26.99		.915	0.25
600	6.12	34.40	27.08		1.026	0.25
700	5.57	34.41	27.16		1.129	0.28
800	5.02	34.44	27.25		1.225	0.40

STATION 120.50 (Interpolated Values at Standard Depths)

CREST: 27°33' 115°53'; January 18, 1953; 1230 GCT; wire angle: 16°; sounding: 2000+ fms; depth of observation: 612 m; weather: clear; sea: rough; wind: 340°, force 4.

0	16.84	33.86	24.70		.000	5.40
10	16.85	33.85	24.69		.033	5.42
20	16.86	33.88	24.71		.065	5.47
30	16.86	33.86	24.69		.098	5.39
50	16.86	33.89	24.72		.163	5.42
75	13.30	33.52	25.21		.239	4.78
100	12.55	33.74	25.53		.305	2.96
150	10.80	34.19	26.20		.413	2.15
200	10.37	34.32	26.30		.504	1.49
250	10.16	34.48	26.54		.587	0.58
300	9.65	34.53	26.66		.663	0.37
400	7.85	34.35	26.81		.801	0.40
500	6.85	34.40	26.99		.924	0.26
600	6.03	34.39	27.09		1.035	0.23

STATION 120.60 (Interpolated Values at Standard Depths)

CREST: 27°13' 116°32'; January 18, 1953; 1806 GCT; wire angle: 18°; sounding: 1900+ fms; depth of observation: 1185 m; weather: overcast; sea: rough; wind: 360°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	16.01	33.50	24.61		.000	5.63
10	16.03	33.49	24.60		.033	5.69
20	16.03	33.47	24.59		.067	5.68
30	16.03	33.47	24.59		.101	5.67
50	16.00	33.47	24.59		.168	5.85
75	16.01	33.47	24.59		.252	5.73
100	15.43	33.49	24.73		.335	5.70
150	10.79	33.71	25.83		.472	3.90
200	9.44	33.98	26.27		.572	2.80
250	8.76	34.15	26.51		.656	2.09
300	8.35	34.27	26.67		.732	1.05
400	7.28	34.29	26.84		.867	0.59
500	6.34	34.31	26.99		.989	0.31
600	5.78	34.34	27.08		1.100	0.23
700	5.34	34.38	27.17		1.203	0.27
800	4.90	34.42	27.25		1.298	0.31
1000	4.09	34.48	27.39		1.470	0.48

STATION 120.70 (Interpolated Values at Standard Depths)

CREST: 26°52' 117°11'; January 18, 1953; 2351 GCT; wire angle: 6°; sounding: 2000 fms; depth of observation: 641 m; weather: cloudy; sea: moderate; wind: 340°, force 4.

0	16.45	33.54	24.54		.000	5.82
10	16.46	33.56	24.56		.034	5.74
20	16.42	33.56	24.57		.068	5.66
30	16.40	33.56	24.57		.102	5.64
50	16.32	33.56	24.59		.169	5.74
75	16.14	33.53	24.61		.254	5.71
100	14.05	33.40	24.96		.333	5.00
150	10.37	33.65	25.86		.464	3.66
200	10.64	34.13	26.18		.565	2.03
250	10.59	34.47	26.46		.654	0.69
300	9.98	34.56	26.63		.732	0.27
400	7.47	34.39	26.89		.867	0.36
500	7.01	34.36	26.93		.989	0.37
600	6.79	34.35	26.96		1.109	0.43

STATION 120.80 (Interpolated Values at Standard Depths)

CREST: 26°32' 117°48'; January 19, 1953; 0500 GCT; wire angle: 12°; sounding: 2000 fms; depth of observation: 1164 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	16.18	33.48	24.56		.000	5.56
10	16.19	33.47	24.55		.034	5.70
20	16.20	33.47	24.55		.068	5.70
30	16.20	33.47	24.55		.102	5.71
50	16.11	33.44	24.54		.170	5.73
75	13.98	33.41	24.98		.250	5.44
100	12.11	33.45	25.39		.321	4.94
150	9.74	33.75	26.04		.436	3.38
200	9.39	34.12	26.39		.529	2.17
250	8.85	34.25	26.58		.609	1.33
300	7.95	34.18	26.66		.683	1.22
400	7.09	34.29	26.87		.818	0.50
500	6.28	34.29	26.98		.938	0.35
600	5.56	34.36	27.12		1.047	0.34
700	5.05	34.39	27.21		1.146	0.40
800	4.64	34.42	27.28		1.238	0.48
1000	3.98	34.48	27.40		1.404	0.62

STATION 123.37 (Interpolated Values at Standard Depths)

CREST: 27°24' 114°36'; January 15, 1953; 1848 GCT; wire angle: 4°; sounding: 30 fms; depth of observation: 30 m; weather: partly cloudy; sea: rough; wind, 350°, force 4.

0	16.69	33.88	24.75		.000	5.27
10	16.68	33.90	24.77		.032	5.42
20	15.64	33.82	24.94		.063	4.58
30	15.02	33.80	25.06		.093	4.06

STATION 127.34 (Interpolated Values at Standard Depths)

CREST: 26°55' 114°06'; January 15, 1953; 0806 GCT; wire angle: 8°; sounding: 47 fms; depth of observation: 50 m; weather: clear; 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	17.98	34.03	24.55		.000	5.78
10	17.99	34.04	24.56		.034	5.54
20	17.96	34.03	24.56		.068	5.63
30	17.82	34.04	24.60		.102	5.59
50	15.63	33.83	24.95		.165	4.68

STATION 127.40 (Interpolated Values at Standard Depths)

CREST: 26°43' 114°29'; January 15, 1953; 1134 GCT; wire angle: 35°; sounding: 1600 fms; depth of observation: 622 m; weather: clear; sea: rough; wind: 330°, force 6.

0	18.51	34.02	24.42	.000	5.88
10	18.52	34.00	24.40	.035	6.01
20	18.52	34.02	24.41	.071	5.76
30	18.52	34.02	24.41	.106	5.44
50	14.68	33.64	25.01	.171	4.83
75	12.50	33.90	25.66	.238	2.98
100	11.53	33.93	25.87	.294	2.89
150	11.70	34.49	26.27	.393	0.74
200	10.60	34.48	26.46	.479	0.72
250	9.88	34.48	26.59	.557	0.56
300	9.46	34.51	26.68	.631	0.36
400	8.15	34.48	26.86	.765	0.30
500	7.28	34.41	26.94	.889	0.19
600	6.31	34.41	27.07	1.004	0.20

STATION 130.30 (Interpolated Values at Standard Depths)

CREST: 26°32' 113°33'; January 14, 1953; 1514 GCT; wire angle: 10°; sounding: 38 fms; depth of observation: 49 m; weather: partly cloudy; sea: 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	18.41	34.10	24.50		.000	5.41
10	18.41	34.08	24.49		.034	5.23
20	18.43	34.11	24.50		.069	5.41
30	17.94	34.01	24.55		.103	5.07
50	(14.97)	(33.90)	(25.15)		(.166)	(3.10)

STATION 130.35 (Interpolated Values at Standard Depths)

CREST: 26°24' 113°46'; January 14, 1953; 1237 GCT; wire angle: 20°; sounding: 90 fms; depth of observation: 119 m; weather: clear; sea: high; wind: 340°, force 6.

0	18.62	34.05	24.41		.000	5.60
10	18.62	34.07	24.43		.035	5.38
20	18.63	34.05	24.41		.070	5.41
30	18.56	34.06	24.43		.106	5.30
50	15.10	33.82	25.06		.170	4.15
75	13.25	33.94	25.54		.238	2.40
100	12.63	34.13	25.81		.296	1.86

STATION 130.40 (Interpolated Values at Standard Depths)

CREST: 26°14' 114°06'; January 14, 1953; 0948 GCT; wire angle: 25°; sounding: 800 fms; depth of observation: 1116 m; weather: clear; 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	19.20	34.09	24.30		.000	5.35
10	19.21	34.08	24.29		.036	5.40
20	19.24	34.12	24.31		.073	5.18
30	19.23	33.96	24.19		.110	5.40
50	15.05	33.53	24.85		.179	5.72
75	13.30	33.62	25.28		.251	3.90
100	12.67	34.08	25.77		.314	2.25
150	11.97	34.56	26.27		.415	0.64
200	11.35	34.54	26.37		.503	0.45
250	10.77	34.57	26.50		.585	0.31
300	9.72	34.48	26.61		.663	0.33
400	8.36	34.44	26.80		.804	0.30
500	7.18	34.38	26.93		.931	0.27
600	6.32	34.35	27.02		1.048	0.21
700	5.65	34.37	27.12		1.157	0.26
800	5.10	34.43	27.23		1.256	0.31
1000	4.41	34.49	27.36		1.432	0.42

STATION 130.50 (Interpolated Values at Standard Depths)

CREST: 25°49' 114°45'; January 14, 1953; 0339 GCT; wire angle: 35°; sounding: 2000+ fms; depth of observation: 576 m; weather: cloudy; sea: rough; wind: 340°, force 6.

0	17.95	33.78	24.37		.000	5.50
10	17.95	33.77	24.36		.036	5.20
20	17.94	33.78	24.37		.071	5.34
30	17.94	33.75	24.35		.107	5.46
50	16.50	33.53	24.52		.178	5.54
75	12.20	33.23	25.20		.256	5.25
100	10.71	33.41	25.61		.321	4.56
150	10.00	33.96	26.16		.428	2.70
200	9.81	34.22	26.40		.518	1.50
250	9.61	34.42	26.58		.597	0.78
300	9.25	34.49	26.70		.670	0.58
400	7.62	34.34	26.83		.806	0.35
500	6.78	34.38	26.98		.928	0.20

STATION 130.60 (Interpolated Values at Standard Depths)

CREST: 25°33' 115°16'; January 13, 1953; 2241 GCT; wire angle: 20°; sounding: 2200 fms; depth of observation: 1193 m; weather: cloudy; sea: 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	18.34	33.85	24.33		.000	5.60
10	18.35	33.85	24.33		.036	6.09
20	18.35	33.84	24.32		.072	6.50
30	18.31	33.82	24.31		.109	6.49
50	18.09	33.82	24.37		.181	6.06
75	13.71	33.36	25.00		.263	6.06
100	11.50	33.43	25.48		.332	5.15
150	10.19	34.00	26.16		.442	2.73
200	9.24	34.18	26.46		.530	2.01
250	8.56	34.25	26.62		.608	1.33
300	8.50	34.40	26.75		.678	0.57
400	7.28	34.38	26.91		.807	0.29
500	6.51	34.40	27.03		.923	0.21
600	5.79	34.43	27.15		1.029	0.23
700	5.20	34.46	27.25		1.124	0.30
800	4.75	34.48	27.31		1.213	0.35
1000	4.01	34.48	27.39		1.377	0.54

STATION 133.25 (Interpolated Values at Standard Depths)

CREST: 26°03' 112°51'; January 13, 1953; 0412 GCT; wire angle: 5°; sounding: 50 fms; depth of observation: 75 m; weather: clear; sea: slight; wind: 300°, force 4.

0	19.04	34.07	24.32		.000	5.38
10	19.00	34.06	24.32		.036	5.28
20	18.82	34.09	24.39		.072	5.43
30	18.64	34.04	24.40		.107	5.46
50	16.04	33.78	24.82		.174	4.38
75	14.10	33.97	25.39		.247	2.59

STATION 133.30 (Interpolated Values at Standard Depths)

CREST: 25°54' 113°07'; January 13, 1953; 0610 GCT; wire angle: 8°; sounding: 100 fms; depth of observation: 149 m; weather: clear; 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	19.11	34.07	24.30		.000	5.28
10	19.14	34.10	24.32		.036	5.31
20	19.15	34.09	24.31		.072	5.28
30	19.11	34.07	24.30		.109	5.22
50	18.49	34.00	24.41		.181	5.07
75	14.90	33.90	25.17		.260	3.15
100	13.20	34.15	25.71		.325	2.05
150	(12.13)	(34.44)	(26.15)		(.430)	(0.77)

STATION 133.40 (Interpolated Values at Standard Depths)

CREST: 25°34' 113°46'; January 13, 1953; 1052 GCT; wire angle: 12°; sounding: 1320 fms; depth of observation: 627 m; weather: clear; sea: rough; wind: 330°, force 4.

0	19.31	34.10	24.27	.000	5.53
10	19.33	34.10	24.27	.037	5.75
20	19.35	34.09	24.26	.073	5.31
30	19.31	34.08	24.26	.110	5.34
50	19.07	34.01	24.27	.184	5.98
75	14.76	33.67	25.02	.267	4.65
100	12.30	33.86	25.67	.333	3.25
150	11.89	34.36	26.13	.441	1.07
200	11.27	34.52	26.37	.531	0.49
250	10.67	34.60	26.52	.613	0.27
300	9.64	34.49	26.63	.691	0.44
400	8.26	34.50	26.86	.828	0.33
500	7.37	34.41	26.92	.952	0.17
600	6.40	34.41	27.06	1.068	0.16

STATION 133.50 (Interpolated Values at Standard Depths)

CREST: 25°19' 114°21'; January 13, 1953; 1543 GCT; wire angle: 20°; sounding: 2000+ fms; depth of observation: 604 m; weather: cloudy; sea: moderate; wind: 320°, force 5.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.70	33.83	24.22		.000	5.45
10	18.70	33.83	24.22		.037	5.31
20	18.74	33.82	24.21		.074	5.49
30	18.92	34.01	24.31		.111	5.16
50	18.23	33.94	24.42		.183	5.30
75	13.11	33.37	25.13		.263	5.10
100	10.85	33.42	25.59		.329	4.46
150	10.02	34.04	26.22		.435	2.69
200	10.21	34.34	26.42		.523	1.17
250	9.68	34.44	26.59		.602	0.81
300	9.04	34.44	26.69		.675	0.69
400	8.24	34.48	26.85		.810	0.26
500	7.34	34.48	26.98		.932	0.17
600	6.27	34.45	27.10		1.043	0.22

STATION 137.23 (Interpolated Values at Standard Depths)

CREST: 25°35' 112°23'; January 12, 1953; 2347 GCT; wire angle: 0°; sounding: 40 fms; depth of observation: 50 m; weather: clear; sea: slight; wind: 320°, force 2.

0	19.27	34.09	24.28		.000	5.56
10	19.02	34.09	24.34		.036	5.64
20	18.88	34.09	24.38		.072	5.48
30	18.85	34.11	24.40		.108	5.41
50	-	34.12	-		-	5.44

STATION 137.30 (Interpolated Values at Standard Depths)

CREST: 25°23' 112°47'; January 12, 1953; 2042 GCT; wire angle: 5°; sounding: 170 fms; depth of observation: 150 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	19.43	34.09	24.24		.000	5.23
10	19.23	34.09	24.29		.037	5.19
20	18.98	34.09	24.35		.073	5.26
30	18.74	34.08	24.40		.109	5.27
50	15.46	33.80	24.97		.174	4.39
75	14.15	33.91	25.33		.245	3.10
100	13.27	34.26	25.78		.307	1.41
150	12.30	34.58	26.22		.409	-

STATION 137.40 (Interpolated Values at Standard Depths)

CREST: 25°00' 113°24'; January 12, 1953; 1545 GCT; wire angle: 10°; sounding: 2000+ fms; depth of observation: 585 m; weather: partly cloudy; sea: moderate; wind: 340°, force 3.

0	19.85	34.30	24.29		.000	5.30
10	19.86	34.29	24.28		.037	5.07
20	19.71	34.24	24.28		.073	5.07
30	19.38	34.15	24.30		.110	5.15
50	18.26	34.00	24.46		.181	5.47
75	15.05	33.88	25.12		.261	3.72
100	12.90	33.97	25.63		.326	2.82
150	12.22	34.61	26.26		.431	0.48
200	11.67	34.76	26.48		.516	0.18
250	10.88	34.65	26.54		.595	0.19
300	9.72	34.59	26.70		.670	0.29
400	8.31	34.59	26.93		.801	0.27
500	7.42	34.47	26.96		.921	0.21
600	(6.54)	(34.48)	(27.09)		(1.033)	-

STATION 137.50 (Interpolated Values at Standard Depths)

CREST: 24°40' 114°02'; January 12, 1953; 1050 GCT; wire angle: 8°; sounding: 2000+ fms; depth of observation: 585 m; weather: partly cloudy; sea: smooth; wind: 320°, force 4.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	18.91	33.88	24.21		.000	5.34
10	18.93	33.90	24.22		.037	5.33
20	19.03	34.00	24.27		.074	5.33
30	18.70	33.97	24.33		.110	5.31
50	15.42	33.49	24.74		.179	5.64
75	12.23	33.32	25.26		.254	4.90
100	10.36	33.47	25.72		.317	4.16
150	11.56	34.43	26.25		.420	1.11
200	10.88	34.55	26.47		.505	0.74
250	10.00	34.53	26.60		.583	0.58
300	9.33	34.52	26.71		.656	0.37
400	8.10	34.51	26.89		.788	0.26
500	7.08	34.47	27.01		.906	0.22
600	(6.25)	(34.48)	(27.13)		(1.014)	-

STATION 140.30 (Interpolated Values at Standard Depths)

CREST: 24°45' 112°24'; January 11, 1953; 1840 GCT; wire angle: 2°; sounding: 58 fms; depth of observation: 75 m; weather: fog; sea: slight; wind: 240°, force 3.

0	20.45	34.36	24.18	.000	5.34
10	19.75	34.22	24.25	.037	5.47
20	20.05	34.34	24.27	.074	5.32
30	19.64	34.28	24.33	.110	5.27
50	16.60	33.99	24.85	.178	4.12
75	14.99	34.19	25.37	.250	2.52

STATION 140.35 (Interpolated Values at Standard Depths)

CREST: 24°35' 112°43'; January 11, 1953; 2135 GCT; wire angle: 1°; sounding: 670 fms; depth of observation: 593 m; weather: partly cloudy; sea: slight; 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	21.05	34.42	24.06		.000	5.34
10	20.63	34.42	24.17		.038	5.31
20	19.96	34.37	24.31		.075	5.14
30	19.59	34.35	24.39		.111	5.02
50	17.24	33.92	24.65		.180	4.71
75	15.04	33.97	25.19		.256	3.54
100	12.86	33.94	25.62		.321	2.87
150	12.04	34.39	26.13		.430	1.15
200	11.54	34.64	26.42		.520	0.53
250	10.36	34.55	26.56		.600	0.60
300	9.86	34.55	26.64		.675	0.29
400	8.41	34.47	26.82		.814	0.26
500	7.14	34.45	26.99		.938	0.18
600	(6.37)	(34.44)	(27.08)		(1.049)	(0.21)

STATION 140.40 (Interpolated Values at Standard Depths)

CREST: 24°26' 113°02'; January 12, 1953; 0040 GCT; wire angle: 0°; sounding: 1870 fms; depth of observation: 589 m; weather: partly cloudy; sea: slight; wind: 10°, force 1.

0	20.54	34.23	24.05		.000	5.37
10	20.38	34.35	24.19		.038	5.38
20	20.25	34.29	24.17		.076	5.20
30	20.22	34.33	24.21		.113	5.25
50	20.03	34.28	24.23		.188	5.39
75	14.10	33.65	25.14		.270	4.45
100	12.56	33.74	25.52		.336	3.24
150	11.50	34.29	26.15		.446	1.39
200	10.80	34.47	26.42		.536	0.79
250	10.21	34.52	26.56		.616	0.45
300	9.50	34.45	26.63		.691	0.46
400	8.50	34.47	26.80		.832	0.15
500	7.31	34.47	26.98		.956	0.18
600	(6.28)	(34.37)	(27.04)		(1.070)	-

STATION 140.50 (Interpolated Values at Standard Depths)

CREST: 24°05' 113°40'; January 12, 1953; 0547 GCT; wire angle: 8°; sounding: 1650 fms; depth of observation: 1168 m; weather: clear; sea: smooth; wind: 310°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	19.50	33.90	24.07		.000	5.82
10	19.37	33.92	24.12		.038	5.34
20	19.33	33.92	24.13		.076	5.33
30	19.29	33.89	24.12		.114	5.40
50	17.90	33.73	24.34		.189	5.95
75	14.46	33.47	24.93		.272	5.40
100	12.74	33.86	25.58		.340	3.57
150	11.33	34.26	26.16		.449	1.65
200	10.65	34.39	26.38		.539	1.03
250	10.16	34.49	26.55		.620	0.62
300	9.45	34.46	26.64		.695	0.37
400	8.27	34.51	26.87		.832	0.23
500	7.09	34.42	26.97		.954	0.33
600	6.29	34.48	27.13		1.064	0.34
700	5.59	34.48	27.21		1.163	0.30
800	5.02	34.48	27.28		1.255	0.29
1000	4.26	34.54	27.41		1.421	0.43

STATION 143.26 (Interpolated Values at Standard Depths)

CREST: 24°20' 111°50'; January 11, 1953; 1412 GCT; wire angle: 0°; sounding: 45 fms; depth of observation: 51 m; weather: partly cloudy; sea: smooth; wind: 200°, force 1.

0	21.26	34.49	24.06		.000	5.04
10	21.12	34.50	24.10		.038	5.16
20	20.59	34.45	24.21		.076	5.06
30	20.38	34.38	24.21		.114	5.09
50	18.04	34.07	24.57		.185	4.68

STATION 143.30 (Interpolated Values at Standard Depths)

CREST: 24°11' 112°03'; January 11, 1953; 1205 GCT; wire angle: 0°; sounding: 120 fms; depth of observation: 151 m; weather: clear; sea: smooth; wind: 120°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.29	34.49	24.05		.000	5.12
10	21.18	34.48	24.07		.039	5.01
20	20.66	34.45	24.19		.077	5.03
30	20.09	34.38	24.29		.114	5.04
50	18.13	34.16	24.62		.184	4.65
75	14.87	34.01	25.26		.260	3.30
100	13.91	34.23	25.63		.324	2.10
150	12.74	34.56	26.12		.432	0.57

STATION 143.35 (Interpolated Values at Standard Depths)

CREST: 24°01' 112°22'; January 11, 1953; 0901 GCT; wire angle: 3°; sounding: 950 fms; depth of observation: 590 m; weather: clear; sea: smooth; wind: 310°, force 2.

0	21.18	34.47	24.06		.000	5.27
10	20.84	34.45	24.14		.038	5.03
20	20.74	34.44	24.16		.076	6.01
30	20.41	34.45	24.25		.113	5.71
50	18.34	34.19	24.59		.184	4.80
75	14.11	33.92	25.35		.259	3.60
100	12.89	34.21	25.82		.320	1.70
150	12.14	34.57	26.25		.421	0.59
200	11.44	34.63	26.43		.508	0.21
250	10.88	34.62	26.52		.589	0.20
300	9.95	34.57	26.64		.665	0.22
400	8.50	34.55	26.86		.802	0.13
500	7.33	34.47	26.98		.924	0.14
600	(6.55)	(34.46)	(27.08)		(1.036)	(0.14)

STATION 147.20 (Interpolated Values at Standard Depths)

CREST: 23°56' 111°03'; January 10, 1953; 2054 GCT; wire angle: 8°; sounding: 80 fms; depth of observation: 98 m; weather: clear; sea: slight; wind: 250°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.65	34.52	23.97		.000	4.99
10	21.28	34.53	24.08		.039	5.06
20	21.27	34.53	24.08		.077	5.07
30	21.16	34.54	24.12		.116	4.97
50	16.85	33.86	24.70		.187	4.99
75	14.92	34.30	25.47		.259	2.44
100	(14.41)	(34.44)	(25.69)		(.320)	(1.64)

STATION 147.25 (Interpolated Values at Standard Depths)

CREST: 23°45' 111°22'; January 10, 1953; 2348 GCT; wire angle: 3°; sounding: 135 fms; depth of observation: 200 m; weather: clear; sea: smooth; wind: 90°, force 2.

0	21.66	34.48	23.94	.000	5.12
10	21.35	34.49	24.03	.039	5.43
20	21.33	34.50	24.04	.078	5.00
30	21.33	34.49	24.04	.117	4.94
50	20.45	34.17	24.03	.195	5.08
75	16.76	34.08	24.88	.283	3.80
100	13.70	34.33	25.75	.350	1.80
150	12.54	34.63	26.22	.453	0.53
200	11.50	34.67	26.45	.540	0.24

STATION 147.30 (Interpolated Values at Standard Depths)

CREST: 23°39' 111°45'; January 11, 1953; 0355 GCT; wire angle: 0°; sounding: 300 fms; depth of observation: 152 m; weather: clear; sea: smooth; wind: 150°, force 2.

0	22.08	34.67	23.97	.000	4.87
10	21.90	34.67	24.02	.039	4.98
20	21.87	34.67	24.02	.078	4.93
30	21.84	34.66	24.02	.117	4.95
50	21.80	34.73	24.09	.195	5.06
75	20.20	34.44	24.30	.289	4.27
100	14.43	33.93	25.29	.369	3.56
150	12.02	34.38	26.12	.485	1.19

STATION 150.19 (Interpolated Values at Standard Depths)

CREST: 23°26' 110°37'; January 10, 1953; 1700 GCT; wire angle: 8°; sounding: 93 fms; depth of observation: 97 m; weather: clear; sea: smooth; wind: 85°, force 3.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	22.16	34.65	23.93		.000	4.92
10	21.65	34.61	24.04		.039	5.37
20	20.92	34.52	24.17		.078	5.12
30	18.73	34.23	24.52		.114	4.45
50	16.99	34.20	24.92		.178	3.70
75	14.90	34.41	25.56		.247	2.02
100	(13.88)	(34.55)	(25.88)		(.305)	(1.25)

STATION 150.25 (Interpolated Values at Standard Depths)

CREST: 23°12' 111°02'; January 10, 1953; 1340 GCT; wire angle: 10°; sounding: 550 fms; depth of observation: 586 m; weather: clear; sea: moderate; wind: 30°, force 4.

0	21.57	34.65	24.09		.000	5.05
10	21.58	34.52	23.99		.039	5.58
20	21.60	34.65	24.08		.078	5.18
30	21.60	34.62	24.06		.116	5.14
50	19.55	34.44	24.47		.190	4.50
75	15.17	34.24	25.37		.266	2.70
100	14.03	34.49	25.81		.327	1.50
150	12.48	34.56	26.17		.430	0.71
200	11.54	34.70	26.46		.518	0.29
250	11.04	34.71	26.56		.597	0.22
300	10.16	34.59	26.62		.673	0.17
400	8.71	34.57	26.85		.812	0.16
500	7.57	34.50	26.97		.935	0.14
600	(6.52)	(34.49)	(27.10)		(1.047)	-

STATION 150.30 (Interpolated Values at Standard Depths)

CREST: 23°02' 111°20'; January 10, 1953; 0939, 1010 GCT; wire angle: 5°; sounding: 1200 fms; depth of observation: 574 m; weather: clear; sea: moderate; wind: 340°, force 2.

Depth (m)	T (°C)	S (‰)	σ_t (mg/cm^3)	$10^5\delta$	ΔD (dyn.m.)	O_2 (ml/L)
0	21.86	34.60	23.97		.000	4.99
10	21.61	34.57	24.02		.039	4.92
20	21.36	34.53	24.06		.078	4.96
30	21.27	34.52	24.08		.117	4.95
50	20.59	34.52	24.26		.192	4.64
75	17.20	34.11	24.80		.278	3.59
100	14.85	34.44	25.59		.348	1.71
150	12.62	34.60	26.18		.456	0.60
200	11.48	34.60	26.40		.545	0.33
250	10.97	34.60	26.49		.628	0.26
300	10.07	34.59	26.64		.705	0.28
400	8.68	34.45	26.76		.847	0.21
500	7.57	34.41	26.89		.978	0.19

STATION 150.40 (Interpolated Values at Standard Depths)

CREST: 22°43' 111°57'; January 10, 1953; 0327, 0403 GCT; wire angle: 7°, 8°; sounding: 1800 fms; depth of observation: 1171 m; weather: clear; sea: smooth; wind: 320°, force 3.

0	21.88	34.60	23.97		.000	4.89
10	21.90	34.63	23.99		.039	4.77
20	21.85	34.64	24.01		.079	4.76
30	21.78	34.64	24.03		.118	4.77
50	21.73	34.61	24.02		.196	4.76
75	17.80	34.22	24.74		.286	3.70
100	13.44	33.90	25.47		.358	2.88
150	12.57	34.44	26.06		.471	0.90
200	12.13	34.64	26.30		.565	0.25
250	11.48	34.66	26.44		.651	0.22
300	10.41	34.57	26.57		.731	0.21
400	8.71	34.51	26.80		.875	0.20
500	7.51	34.49	26.97		1.001	0.14
600	6.50	34.47	27.09		1.113	0.14
700	5.76	34.48	27.19		1.215	0.17
800	5.17	34.49	27.27		1.309	0.20
1000	4.31	34.50	27.38		1.480	0.36

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