CORRECTIONS MADE :
STATION POSITIONS 48

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA
CCOFI CRUISE 5304
(MLR 47)
31 March - 19 April 1953

SIO Reference 58-13
20 February 1958

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5304

(MLR 47)

31 March - 19 April 1953

Sponsored by

Marine Research Committee

SIO Reference 58-13
20 February 1958

Approved for distribution

Roger Revelle

Roger Revelle, Director

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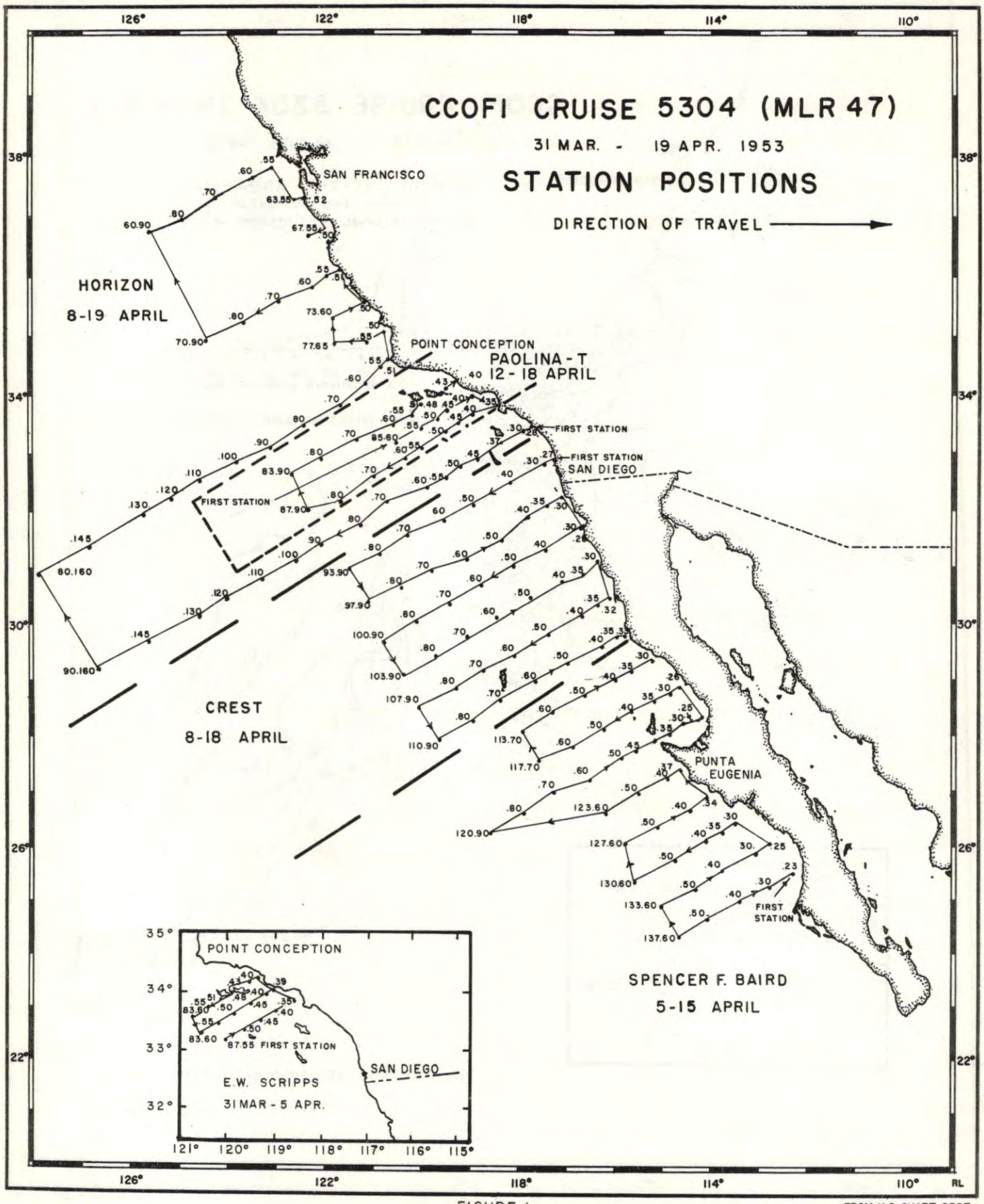


FIGURE 1

FROM H.O. CHART 0527

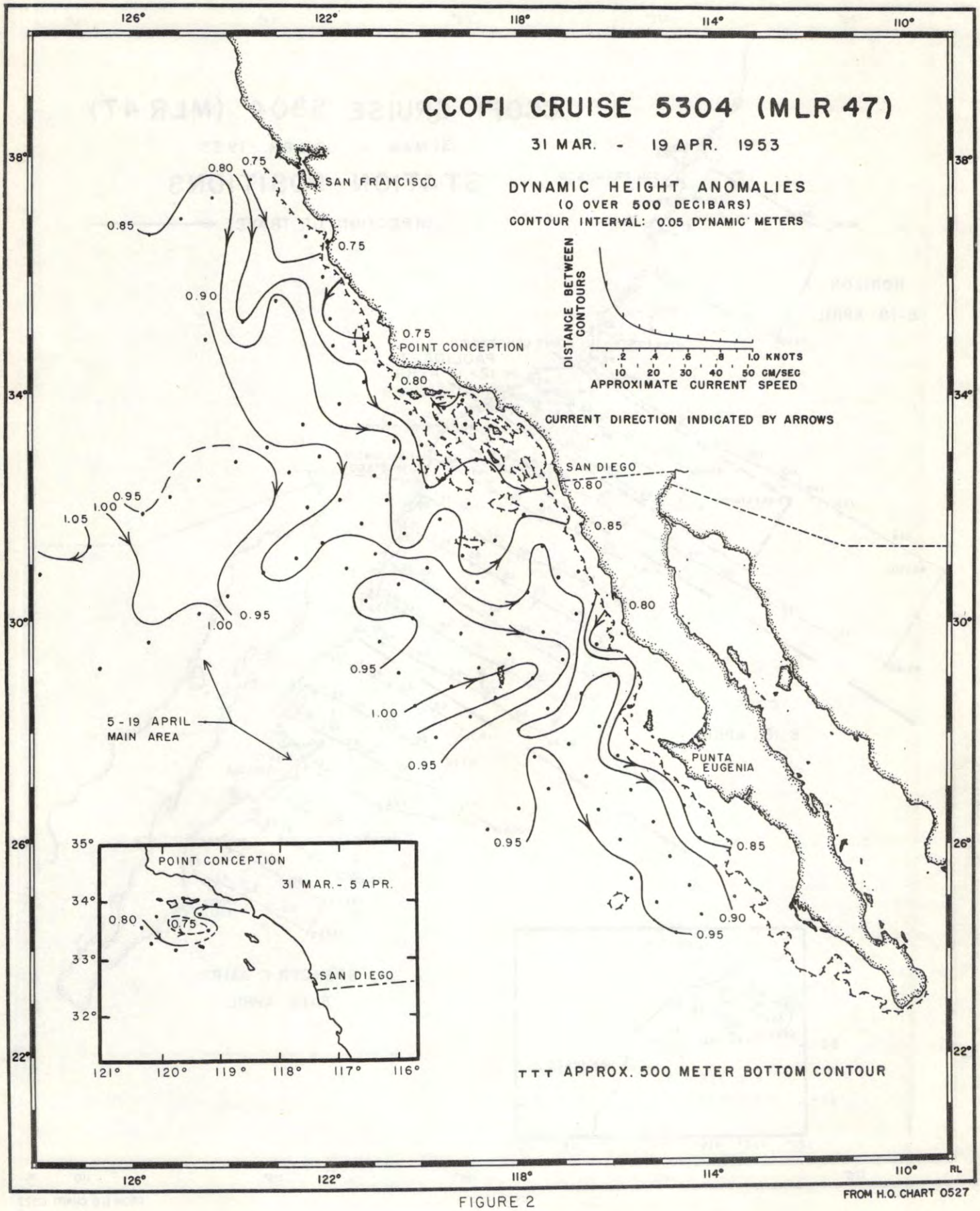


FIGURE 2

FROM H.O. CHART 0527

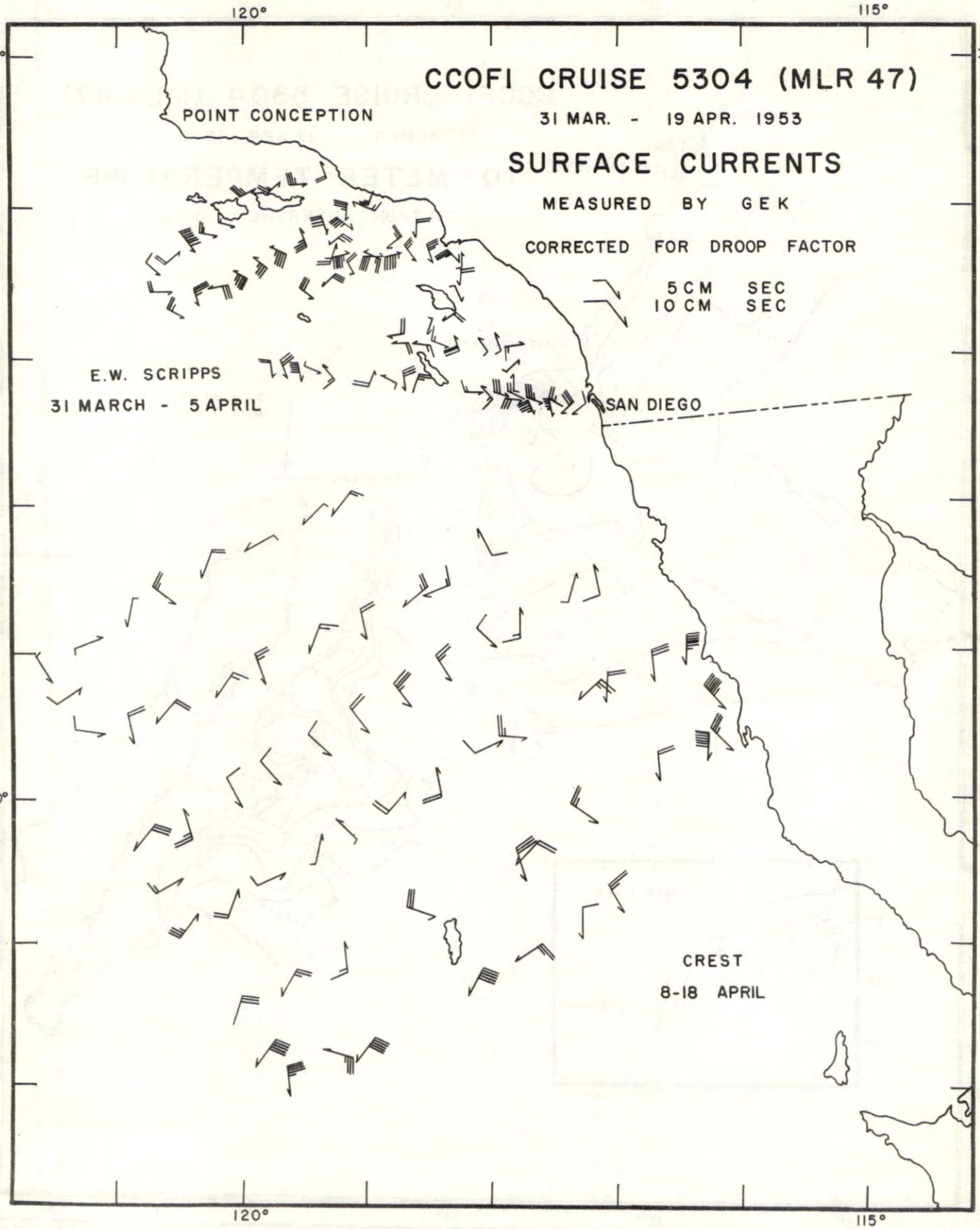
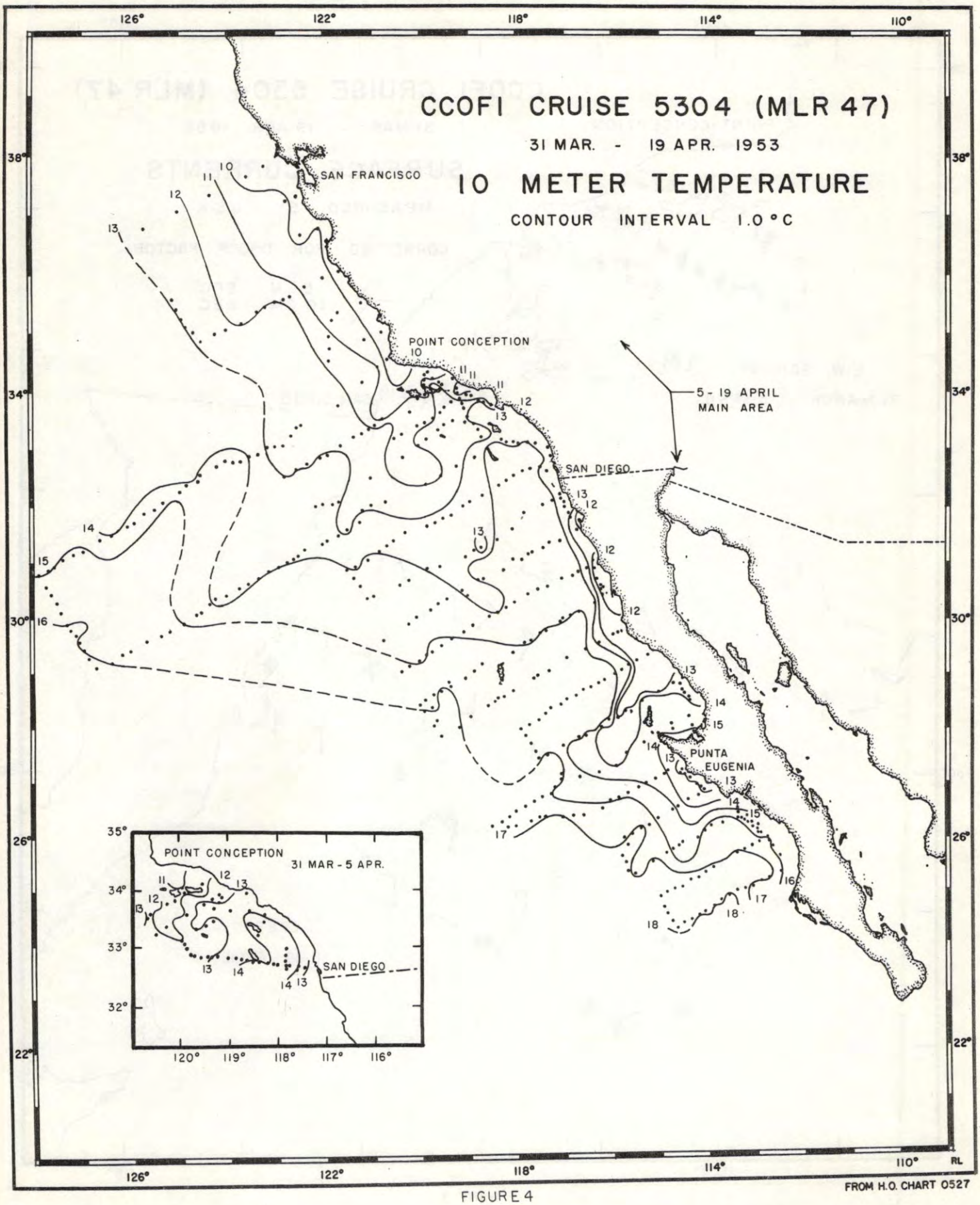

CCOFI CRUISE 5304 (MLR 47)
31 MAR. - 19 APR. 1953
SURFACE CURRENTS
MEASURED BY GEK
CORRECTED FOR DROOP FACTOR
5 CM SEC
10 CM SEC
POINT CONCEPTION
E.W. SCRIPPS
31 MARCH - 5 APRIL
SAN DIEGO
CREST
8-18 APRIL
120°
115°
35°
30°

FIGURE 3



FROM H.O. CHART 0527

FIGURE 4

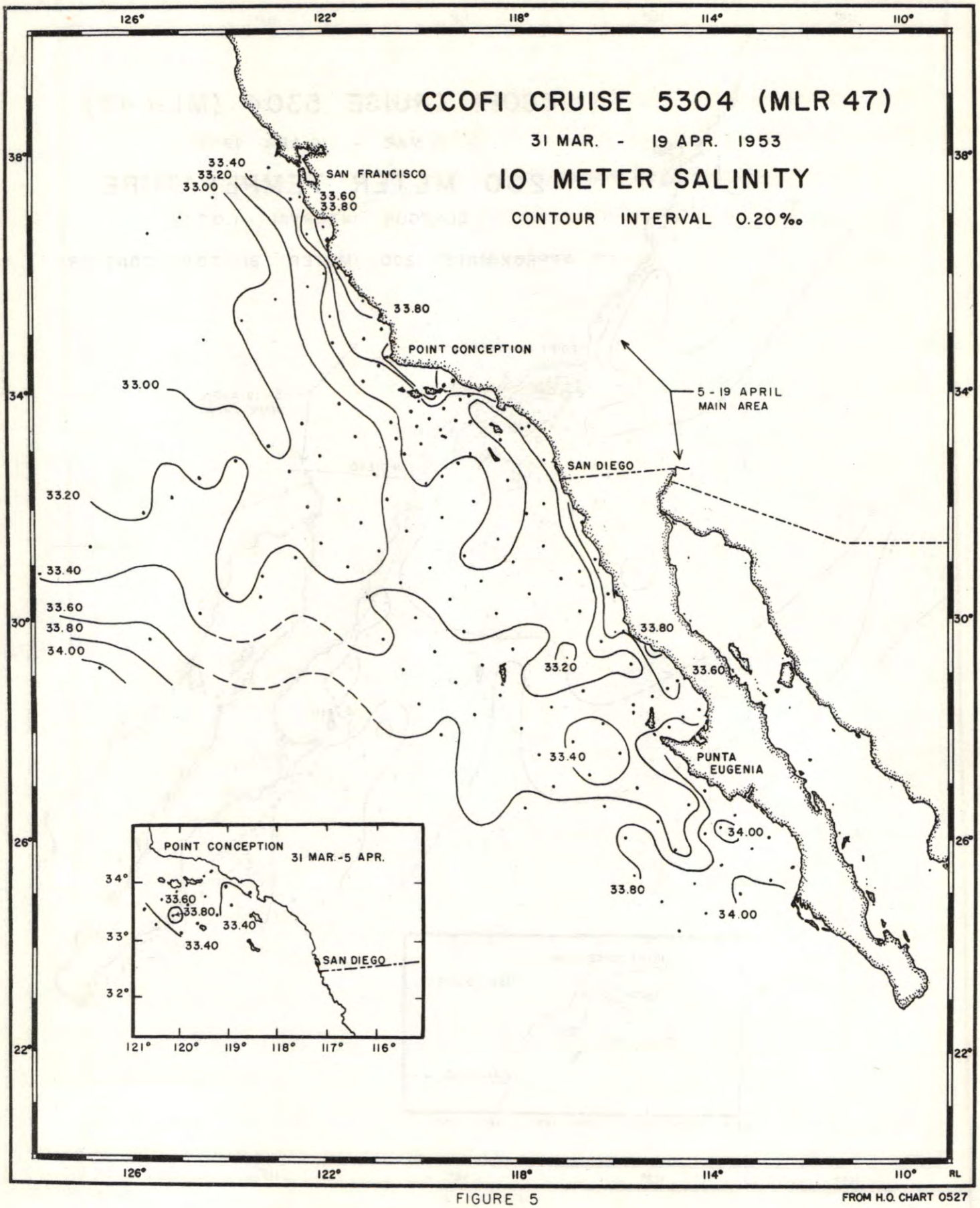


FIGURE 5

FROM H.O. CHART 0527

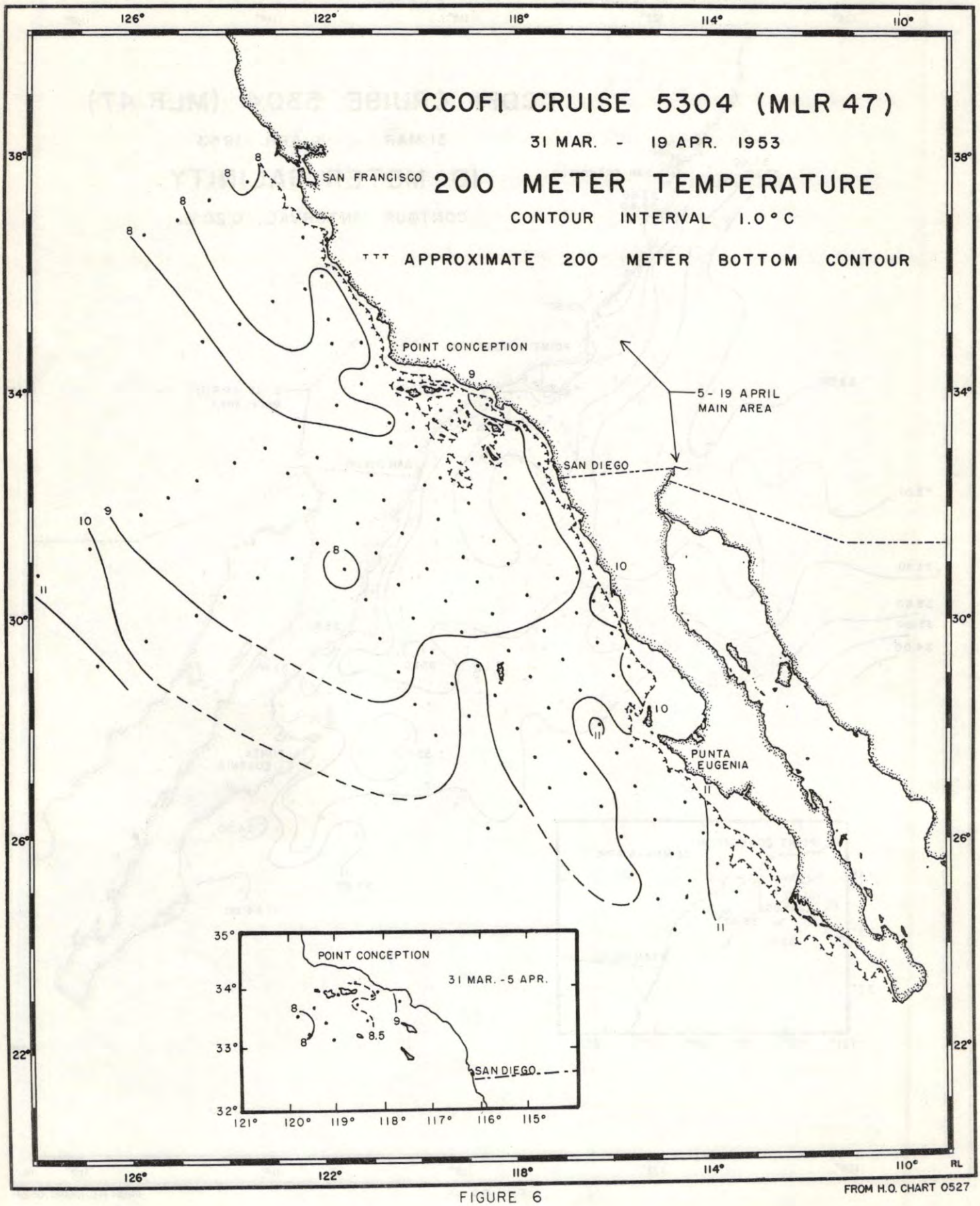


FIGURE 6

FROM H.O. CHART 0527

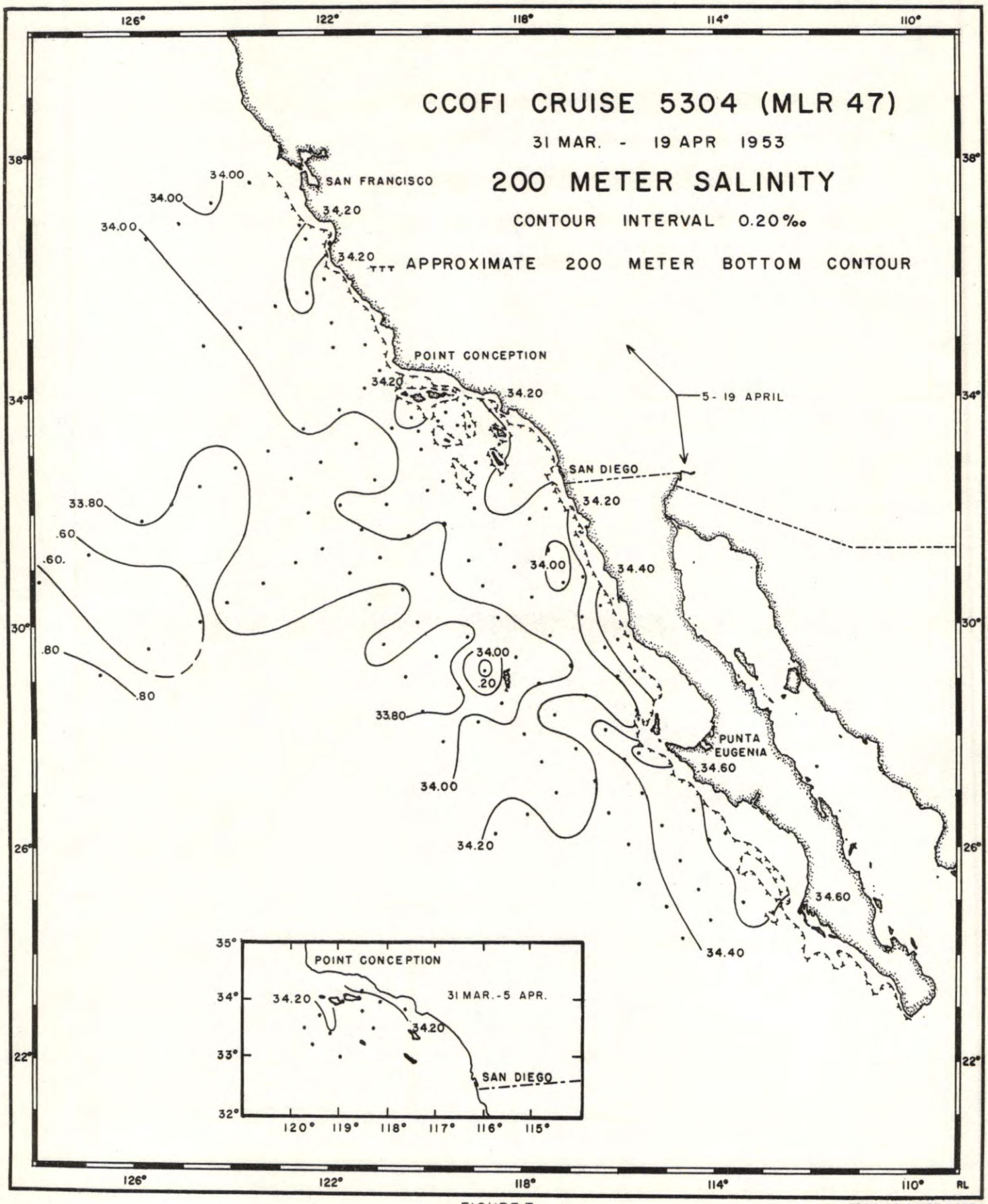


FIGURE 7

FROM H.O. CHART 0527

INTRODUCTION

The data in this report were collected on the forty-seventh consecutive cruise of the California Cooperative Oceanic Fisheries Investigations program. The five ships participating were the R/V Crest, the R/V E. W. Scripps, the R/V Horizon, the R/V Paolina-T and the R/V Spencer F. Baird of the Scripps Institution of Oceanography.

The data are tabulated at observed depths, and the interpolated and computed values are tabulated at standard depths accompanied by charts of horizontal distribution. The presentation of data in this report does not constitute publication, and the interpretations herein may be subject to modification as the program continues.

STANDARD PROCEDURES

To indicate degree of accuracy, temperatures are recorded in tenths of a degree when obtained by bucket thermometer, thermograph, or bathythermograph, while temperatures from reversing thermometers are recorded in hundredths of a degree. Extrapolated values and values interpolated between remote observations are entered within parentheses. A hyphen is used to indicate a missing observed value. The time is the time of messenger release. When more than one cast was made on a station, each messenger time and wire angle is given in the order of increasing depth of casts. A line is left blank between the observed data of each cast.

FOOTNOTES

In addition to standard footnotes, three special notations are used without footnotes because their meaning is always the same.

To indicate a premature or a delayed reversal of the water-sampling device which results in certain depth and property errors, the following notation is used.

p: pretrip or posttrip.

Values which are not drawn through because they seem to be in error without apparent reason are indicated by one of the following notations.

r: rejected value (value seems to be definitely wrong),

u: uncertain value (value may be correct; occasionally it can influence the drawing of the property curve).

FORMAT

Beginning with this report, these data will be typed in the format of the University of California Press publication, "Oceanic Observations of the Pacific." So that these pages can be used as copy for the 1953 volume, the first page of the Cruise 5304 data is numbered 111.

PERSONNEL

SHIPS' CAPTAINS

Davis, L. E., R/V Crest
Brandel, G., R/V E. W. Scripps
Ferris, Noel, R/V Horizon
Newbegin, R. C., R/V Paolina-T
Colbeth, C. W., R/V Spencer F. Baird

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V CREST

Cunningham, Leonard M., Jr., Senior Marine Technician
Greenbaum, Richard H., Marine Technician
Larimore, Wayne H., Marine Technician
Livingstone, Robert, Jr., Marine Biologist, U. S. Fish and Wildlife Service
Smith, James B., Student Chemist

R/V E. W. SCRIPPS

Cunningham, Leonard M., Jr., Senior Marine Technician
Payne, Miles M., Senior Marine Technician
Duiker, Wesley J., Marine Technician
Schwartzlose, Richard A., Laboratory Technician

R/V HORIZON

Gilkey, Robert W., Senior Marine Technician
Casey, Harold D., Fisheries Aid, U. S. Fish and Wildlife Service
Kircher, Robert J., Marine Technician
Person, David A., Marine Technician
Schwartzlose, Richard A., Laboratory Technician

R/V PAOLINA-T

Coolidge, Richard N., Senior Marine Technician
Payne, Miles M., Senior Marine Technician
Worrall, Charles G., Senior Marine Technician
Riber, Donald N., Marine Technician

R/V SPENCER F. BAIRD

Smith, Alan C., Senior Marine Technician
Counts, Robert C., Fisheries Research Biologist, U. W. Fish and Wildlife Service
Howell, Robert W., Marine Technician
King, Robert D., Marine Technician
Lance, James J., Marine Technician

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

HORIZON; April 18, 1953; 1710 GCT; 37°47.5'N, 123°15'W; sounding, 50 fm; wind, 040°, force 1; weather, cloudy; sea, moderate; wire angle, 00°. 60.55

0	9.76	33.36	6.14	0	9.76	33.36	6.14	25.73	227	0.00
10	9.36	33.45	6.03	10	9.36	33.45	6.03	25.87	214	0.02
20	8.69	33.65	5.10	20	8.69	33.65	5.10	26.13	189	0.04
30	8.35	33.68	4.17	30	8.35	33.68	4.17	26.21	182	0.06
50	8.40	33.90	3.42	50	8.40	33.90	3.42	26.37	167	0.10

HORIZON; April 18, 1953; 1343 GCT; 37°38'N, 123°36'W; sounding, 1900 fm; wind, 270°, force 1; weather, partly cloudy; sea, rough; wire angle, 09°. 60.60

0	10.20	33.28	6.27	0	10.20	33.28	6.27	25.60	240	0.00
10	9.37	33.41	5.47	10	9.37	33.41	5.47	25.84	217	0.02
25	8.94	33.48	5.02	20	9.07	33.46	5.20	25.92	209	0.04
54	8.34	33.60	3.82	30	8.80	33.50	4.90	26.00	202	0.06
77	8.34	33.68	3.20	50	8.35	33.58	4.00	26.13	190	0.10
104	7.96	33.90	2.74	75	8.33	33.68	3.21	26.21	183	0.15
152	7.46	33.93	2.94	100	8.04	33.89	2.73	26.42	164	0.19
200	7.24	34.03	2.06	150	7.48	33.93	2.95	26.53	154	0.27
253	6.83	34.04	1.63	200	7.24	34.03	2.06	26.64	144	0.35
298	6.33	34.04	1.67	250	6.89	34.04	1.64	26.70	139	0.42
400	5.50	34.07	0.99	300	6.31	34.04	1.65	26.78	132	0.49
499	5.15	34.21	0.58	400	5.50	34.07	0.99	26.90	121	0.61
598	4.78	34.24	0.41	500	5.14	34.21	0.59	27.06	107	0.73
789	4.20	34.43	0.36	600	4.77	34.24	0.42	27.12	101	0.83
981	3.64	34.49	0.59	700	4.45	34.34	0.36	27.24	91	0.93
1172	3.24	34.50	0.79	800	4.17	34.43	0.38	27.34	82	1.01
				1000	3.60	34.49	0.60	27.44	73	1.17

HORIZON; April 18, 1953; 0847 GCT; 37°18'N, 124°21'W; sounding, 2000+ fm; wind, 330°, force 1; weather, cloudy; sea, rough; wire angle, 05°. 60.70

0	11.52	32.94	6.61	0	11.52	32.94	6.61	25.10	287	0.00
10	11.38	32.88	6.56	10	11.38	32.88	6.56	25.08	289	0.03
20	10.94	32.97	6.72	20	10.94	32.97	6.72	25.23	275	0.06
35	10.63	-	6.45	30	10.70	32.96	6.58	25.26	272	0.08
54	10.42	32.89	6.42	50	10.47	32.89	6.42	25.25	274	0.14
68	10.31	33.04	6.38	75	10.20	33.07	6.32	25.43	257	0.20
82	10.04	33.10	6.25	100	9.62	33.20	6.00	25.63	238	0.27
104	9.52	33.23	5.87	150	8.69	33.66	4.10	26.14	191	0.38
125	9.06	33.41	4.92	200	8.70	33.96	2.22	26.37	170	0.46
152	8.67	33.68	4.04	250	8.27	34.05	1.92	26.51	158	0.55
198	8.70	33.95	2.25	300	7.74	34.16	1.68	26.67	143	0.62
251	8.24	34.05	1.92	400	6.80	34.22	1.07	26.85	126	0.76
295	7.78	34.15	1.69	500	5.91	34.22	0.68	26.97	116	0.88
400	6.80	34.22	1.07	600	5.19	34.25	0.60	27.08	106	0.99
502	5.88	34.22	0.68							
606	5.14	34.25	0.60							

SIO

CCOFI 5304

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
6080	HORIZON; April 18, 1953; 0355 GCT; 36°57'N, 125°04'W; sounding, 2000+ fm; wind, 360°, force 3; weather, cloudy; sea, rough; wire angle, 15°.									
0	12.33	32.82	6.45	0	12.33	32.82	6.45	24.86	310	0.00
9	12.14	32.87	6.46	10	12.10	32.87	6.45	24.94	303	0.03
24	11.64	32.87	6.51	20	11.75	32.87	6.50	25.00	297	0.06
52	11.31	32.83	6.50	30	11.57	32.87	6.51	25.04	294	0.09
75	11.18	32.78	6.37	50	11.34	32.84	6.51	25.06	292	0.15
100	8.79	32.95	5.69	75	11.18	32.78	6.37	25.04	295	0.22
150	8.33	33.62	3.62	100	8.79	32.95	5.69	25.57	244	0.29
198	7.90	34.04	2.61	150	8.33	33.62	3.62	26.16	189	0.40
252	7.16	34.06	2.22	200	7.88	34.04	2.60	26.56	152	0.48
296	6.83	34.09	1.76	250	7.17	34.06	2.25	26.68	141	0.56
397	6.00	34.14	1.12	300	6.80	34.09	1.73	26.75	135	0.62
495	5.32	34.15	0.62	400	5.97	34.14	1.10	26.90	121	0.75
591	4.92	34.34	0.42	500	5.30	34.15	0.60	26.99	114	0.87
781	4.29	34.42	0.30	600	4.90	34.35	0.40	27.19	95	0.96
970	3.64	34.52	0.45	700	4.54	34.39	0.32	27.27	89	1.07
1157	3.32	34.58	0.70	800	4.22	34.43	0.30	27.33	83	1.15
				1000	3.58	34.53	0.50	27.48	70	1.30
6090	HORIZON; April 17, 1953; 2255 GCT; 36°41'N, 125°43'W; sounding, 2000+ fm; wind, 310°, force 3; weather, overcast; sea, moderate; wire angle, 20°.									
0	12.71	32.93	6.45	0	12.71	32.93	6.45	24.87	309	0.00
9	12.60	32.92	6.37	10	12.60	32.92	6.38	24.88	308	0.03
19	11.72	32.93	6.56	20	11.66	32.93	6.57	25.07	291	0.06
33	11.33	32.98	6.58	30	11.40	32.97	6.58	25.15	283	0.09
50	11.08	33.00	6.70	50	11.08	33.00	6.70	25.23	276	0.14
63	10.85	33.04	6.26	75	9.99	33.12	5.69	25.51	250	0.21
75	9.99	33.12	5.69	100	8.90	33.34	4.65	25.86	217	0.27
95	9.12	33.29	4.74	150	8.23	33.72	3.64	26.26	180	0.37
114	8.57	33.48	4.42	200	7.99	34.00	2.39	26.51	156	0.45
140	8.26	33.65	3.90	250	7.00	34.03	2.50	26.68	141	0.53
180	8.16	33.96	2.53	300	6.40	34.03	2.42	26.76	134	0.60
232	7.41	34.03	2.29	400	5.63	34.10	1.36	26.91	120	0.72
274	6.62	34.02	2.68	500	5.11	34.19	0.83	27.04	108	0.84
370	5.87	34.07	1.59							
466	5.24	34.16	0.98							
566	4.94	34.27	0.54							
6352	HORIZON; April 18, 1953; 2305 GCT; 37°19'N, 122°35'W; sounding, 42 fm; wind, 270°, force 2; weather, partly cloudy; sea, slight; wire angle, 15°.									
0	10.80	33.54	6.28	0	10.80	33.54	6.28	25.70	230	0.00
9	9.87	33.51	6.18	10	9.55	33.51	6.10	25.88	213	0.02
19	9.13	33.58	5.00	20	9.15	33.58	5.00	26.00	202	0.04
29	9.24	33.78	5.79	30	9.24	33.78	5.78	26.15	188	0.06
49	8.40	33.92	3.49							
6355	HORIZON; April 18, 1953; 2105 GCT; 37°14.5'N, 122°48'W; sounding, 105 fm; wind, 270°, force 3; weather, partly cloudy; sea, rough; wire angle, 20°.									
0	11.55	33.35	6.37	0	11.15	33.35	6.37	25.49	250	0.00
9	10.61	33.40	6.41	10	10.60	33.40	6.41	25.62	238	0.02
23	10.18	33.40	6.18	20	10.30	33.40	6.30	25.67	233	0.05
47	9.16	33.58	4.28	30	9.94	33.41	5.94	25.74	227	0.07
71	8.74	33.77	3.66	50	9.10	33.61	4.15	26.04	199	0.11
94	8.45	33.93	3.26	75	8.70	33.80	3.60	26.25	179	0.16
118	8.26	34.01	2.31	100	8.39	33.95	3.10	26.41	164	0.20
147	8.22	34.14	1.84	150	(8.21)	(34.15)	(1.80)	(26.60)	(148)	(0.28)

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
HORIZON; April 19, 1953; 0311 GCT; 36°48.5'N, 122°04'W; sounding, 85 fm; wind, 220°, force 1; weather, cloudy; sea, moderate; wire angle, 02°.										67.50
0	10.03	33.84	5.61	0	10.03	33.84	5.61	26.06	196	0.00
10	10.00	33.90	5.61	10	10.00	33.90	5.61	26.11	191	0.02
20	9.70	33.96	5.09	20	9.70	33.96	5.09	26.21	182	0.04
30	9.56	33.99	4.39	30	9.56	33.99	4.39	26.26	178	0.06
48	8.84	34.00	2.74	50	8.80	34.00	2.71	26.39	166	0.09
71	8.60	34.03	2.32	75	8.61	34.04	2.30	26.45	160	0.13
92	8.63	34.14	2.10	100	8.60	34.13	2.05	26.52	154	0.17
115	8.48	34.09	1.93							
HORIZON; April 19, 1953; 0551 GCT; 36°39'N, 122°26'W; sounding, 1300 fm; wind, 200°, force 2; weather, cloudy; sea, moderate; wire angle, 05°.										67.55
0	11.01	33.59	5.94	0	11.01	33.59	5.94	25.70	230	0.00
10	9.83	33.77	5.25	10	9.83	33.77	5.25	26.04	198	0.02
20	9.44	33.82	4.51	20	9.44	33.82	4.51	26.14	188	0.04
35	9.32	33.86	4.27	30	9.36	33.84	4.35	26.17	186	0.06
49	9.23	33.91	3.43	50	9.21	33.92	3.42	26.26	178	0.10
63	9.04	34.01	3.37	75	8.90	34.08	2.89	26.43	162	0.14
77	8.88	34.07	2.81	100	8.63	34.09	2.35	26.48	157	0.18
95	8.68	34.09	2.44	150	8.46	34.09	1.78	26.51	156	0.26
117	8.54	34.06	2.09	200	8.17	34.25	1.53	26.68	140	0.33
143	8.48	34.07	1.80	250	8.01	34.28	1.21	26.73	137	0.40
187	8.22	34.22	1.61	300	7.75	34.29	1.10	26.77	133	0.47
230	8.07	34.28	1.30	400	6.90	34.33	0.82	26.93	120	0.59
275	7.94	34.28	1.13	500	6.38	34.31	0.52	26.98	116	0.71
370	7.06	34.33	0.96							
462	6.61	34.28	0.59							
562	5.86	34.39	0.47							
HORIZON; April 16, 1953; 1305 GCT; 36°00'N, 121°45'W; sounding, 221 fm; wind, 300°, force 1; weather, partly cloudy; sea. slight; wire angle, 00°.										70.51
0	9.51	33.87	4.48	0	9.51	33.87	4.48	26.17	185	0.00
10	9.50	33.90	4.38	10	9.50	33.90	4.38	26.20	183	0.02
25	8.91	33.91	2.94	20	9.20	33.91	3.38	26.25	178	0.04
49	8.74	33.96	2.66	30	8.83	33.92	2.85	26.32	172	0.05
73	8.72	33.97	2.37	50	8.73	33.96	2.64	26.37	168	0.09
96	8.62	34.01	2.14	75	8.71	33.97	2.36	26.38	167	0.13
146	8.54	34.07	2.02	100	8.60	34.02	2.12	26.43	162	0.17
193	8.45	34.16	1.76	150	8.52	34.08	2.00	26.49	157	0.25
				200	(8.44)	(34.17)	(1.70)	(26.58)	(150)	(0.33)
HORIZON; April 16, 1953; 1558 GCT; 36°03'N, 122°02'W; sounding, 800 fm; wind, 310°, force 4; weather, overcast; sea, rough; wire angle, 25°.										70.55
0	10.32	33.35	6.29	0	10.32	33.35	6.29	25.63	237	0.00
8	10.30	33.35	6.29	10	10.30	33.36	6.28	25.64	236	0.02
23	10.24	33.40	6.33	20	10.26	33.39	6.32	25.67	233	0.05
49	9.25	33.48	4.84	30	10.19	33.42	6.18	25.71	230	0.07
71	9.13	33.60	4.07	50	9.23	33.48	4.80	25.91	211	0.11
96	8.62	33.84	3.10	75	9.10	33.64	3.98	26.06	197	0.16
140	8.42	34.01	2.38	100	8.60	33.88	3.00	26.33	172	0.21
182	7.80	34.00	2.81	150	8.30	34.01	2.42	26.47	159	0.29
229	7.82	34.11	1.59	200	7.80	34.03	2.40	26.56	151	0.37
269	7.44	34.16	1.42	250	7.65	34.14	1.49	26.67	142	0.45
362	6.80	34.23	0.82	300	7.21	34.19	1.20	26.77	133	0.51
450	6.26	34.27	0.65	400	6.57	34.24	0.75	26.90	122	0.64
539	5.72	34.33	0.42	500	5.95	34.31	0.50	27.04	110	0.76
714	4.80	34.38	0.38	600	5.38	34.36	0.39	27.15	100	0.86
890	4.11	34.48	0.50	700	4.87	34.38	0.38	27.22	93	0.96
1080	3.58	34.50	0.66	800	4.45	34.43	0.43	27.31	86	1.05
				1000	3.79	34.49	0.61	27.42	75	1.21

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
70.60	HORIZON; April 16, 1953; 1913 GCT; 35°49'N, 122°25'W; sounding, 1900 fm; wind, 310°, force 1; weather, cloudy; sea, slight; wire angle, 35°.									
0	10.64	33.38	6.17	0	10.64	33.38	6.17	25.60	240	0.00
8	10.48	33.31	6.11	10	10.47	33.29	6.13	25.56	244	0.02
17	10.44	33.29	6.18	20	10.42	33.29	6.17	25.57	243	0.05
29	10.37	33.36	6.11	30	10.37	33.37	6.11	25.64	236	0.07
41	10.34	33.46	6.13	50	10.30	33.51	6.11	25.76	225	0.12
54	10.21	33.53	6.03	75	9.29	33.58	4.60	25.98	205	0.17
64	9.64	33.58	5.50	100	8.70	33.78	3.18	26.23	181	0.22
77	9.25	33.58	4.62	150	8.47	34.04	2.21	26.47	160	0.31
92	8.64	33.62	3.77	200	8.10	34.22	1.74	26.67	142	0.38
108	8.85	33.86	2.93	250	7.20	34.16	1.62	26.75	134	0.45
137	8.42	33.99	2.54	300	6.50	34.12	1.40	26.81	128	0.52
168	8.50	34.11	1.90	400	5.81	34.16	0.82	26.93	118	0.64
200	8.10	34.22	1.74							
273	6.82	34.13	1.54							
353	6.02	34.12	1.04							
444	5.66	34.22	0.64							
70.70	HORIZON; April 16, 1953; 2342 GCT; 35°34'N, 123°05'W; sounding, 2000+ fm; wind, 220°, force 4; weather, overcast; sea, slight; wire angle, 22°.									
0	12.10	33.04	6.56	0	12.10	33.04	6.56	25.07	290	0.00
9	11.86	33.04	6.60	10	11.84	33.04	6.60	25.12	286	0.03
23	11.68	33.02	6.55	20	11.72	33.02	6.59	25.13	285	0.06
50	11.19	33.18	6.45	30	11.60	33.02	6.54	25.15	283	0.09
72	11.00	33.38	6.32	50	11.19	33.18	6.45	25.35	265	0.14
98	10.29	33.41	5.67	75	10.98	33.39	6.31	25.55	246	0.20
144	9.14	33.73	3.30	100	10.22	33.42	5.60	25.70	232	0.26
191	8.29	33.99	3.22	150	9.01	33.76	3.30	26.17	188	0.37
243	8.11	34.15	1.69	200	8.24	34.03	3.07	26.50	158	0.46
286	7.62	34.19	1.42	250	8.07	34.16	1.64	26.62	146	0.53
385	7.00	34.28	0.78	300	7.50	34.21	1.32	26.75	135	0.60
481	5.76	34.27	0.64	400	6.85	34.28	0.74	26.89	123	0.73
577	5.44	34.35	0.45	500	5.67	34.28	0.60	27.05	108	0.85
764	4.54	34.47	0.34	600	5.35	34.37	0.41	27.16	99	0.95
955	3.84	34.47	0.46	700	4.85	34.44	0.33	27.27	89	1.04
1144	3.36	34.52	0.71	800	4.38	34.47	0.33	27.35	82	1.13
				1000	3.71	34.48	0.51	27.42	75	1.29
70.80	HORIZON; April 17, 1953, 0529 GCT; 35°14'N, 123°48'W; sounding, 2000+ fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 10°.									
0	12.02	33.12	6.42	0	12.02	33.12	6.42	25.15	283	0.00
10	11.94	33.09	5.95	10	11.94	33.09	5.95	25.14	284	0.03
20	11.22	33.16	6.05	20	11.22	33.16	6.05	25.33	266	0.06
35	10.93	33.25	5.97	30	10.94	33.22	6.00	25.42	257	0.08
54	10.98	33.35	5.95	50	10.98	33.33	5.98	25.50	250	0.13
68	10.40	33.48	5.31	75	10.15	33.50	4.88	25.78	224	0.19
83	9.96	33.52	4.14	100	9.39	33.70	2.80	26.06	198	0.24
104	9.23	33.75	2.75	150	8.35	33.95	2.40	26.42	164	0.34
125	8.64	33.90	2.56	200	7.95	34.05	1.90	26.56	152	0.41
151	8.34	33.95	2.36	250	7.76	34.17	1.41	26.68	141	0.49
199	7.97	34.04	1.94	300	7.13	34.15	1.23	26.75	135	0.56
250	7.76	34.17	1.41	400	6.31	34.19	0.78	26.89	122	0.68
294	7.20	34.15	1.26	500	5.53	34.22	0.60	27.02	111	0.80
397	6.34	34.19	0.79	600	4.98	34.29	0.41	27.14	100	0.91
497	5.56	34.22	0.60							
602	4.96	34.29	0.40							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
HORIZON; April 17, 1953; 1009 GCT; 34°55'N, 124°33'W; sounding, 2000+ fm; wind, 230°, force 4; weather, partly cloudy; sea, moderate; wire angle, 10°.										70.90
0	12.69	32.93	6.32	0	12.69	32.93	6.32	24.87	309	0.00
10	12.62	32.88	6.13	10	12.62	32.88	6.13	24.85	311	0.03
25	12.12	32.89	6.18	20	12.30	32.89	6.17	24.92	305	0.06
54	11.78	32.88	5.71	30	12.07	32.89	6.16	24.96	301	0.09
79	11.38	32.95	5.55	50	11.83	32.88	5.79	25.00	298	0.15
108	10.70	33.11	5.94	75	11.42	32.94	5.56	25.12	287	0.22
157	8.61	33.39	4.15	100	10.93	33.06	5.80	25.30	270	0.30
204	8.36	33.89	2.80	150	8.80	33.35	4.43	25.88	216	0.42
256	7.67	33.98	2.56	200	8.40	33.86	2.85	26.34	173	0.51
299	7.00	33.98	2.35	250	7.79	33.98	2.58	26.53	156	0.60
397	6.00	34.12	1.17	300	7.00	33.98	2.34	26.64	146	0.67
494	5.67	34.23	0.58	400	5.98	34.13	1.14	26.89	122	0.80
590	5.26	34.32	0.34	500	5.64	34.24	0.55	27.02	111	0.92
781	4.33	34.39	0.32	600	5.21	34.33	0.34	27.14	100	1.03
981	3.88	34.48	0.48	700	4.70	34.37	0.32	27.23	92	1.12
1177	3.35	34.54	0.70	800	4.30	34.40	0.32	27.30	86	1.21
				1000	3.83	34.49	0.50	27.42	75	1.37
HORIZON; April 16, 1953; 0832 GCT; 35°37'N, 121°17'W; sounding, 50 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 09°.										73.50
0	9.38	33.87	3.88	0	9.38	33.87	3.88	26.19	183	0.00
10	9.35	33.91	3.88	10	9.35	33.91	3.88	26.23	180	0.02
19	9.09	33.93	2.77	20	9.02	33.94	2.73	26.31	173	0.04
29	8.91	33.98	2.50	30	8.91	33.98	2.48	26.35	168	0.05
48	8.90	-	2.42	50	8.90	33.97	2.42	26.35	169	0.09
74	8.90	33.95	2.74							
HORIZON; April 16, 1953; 0354 GCT; 35°18'N, 121°57'W; sounding, 1300 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 21°.										73.60
0	10.55	33.58	6.26	0	10.55	33.58	6.26	25.77	223	0.00
9	10.53	33.59	6.32	10	10.54	33.59	6.33	25.78	223	0.02
18	10.52	33.58	6.33	20	10.51	33.58	6.34	25.79	222	0.04
33	10.27	33.58	6.24	30	10.40	33.58	6.30	25.80	222	0.07
50	9.52	33.75	4.80	50	9.52	33.75	4.80	26.08	195	0.11
64	9.43	33.78	4.59	75	9.36	33.86	4.31	26.19	185	0.16
76	9.35	33.86	4.30	100	9.05	33.87	3.30	26.25	180	0.20
96	9.12	33.86	3.50	150	8.38	34.01	2.42	26.46	160	0.29
114	8.79	33.95	2.59	200	7.48	34.04	2.55	26.62	146	0.36
138	8.57	33.99	2.42	250	6.65	34.03	2.33	26.72	136	0.43
181	7.78	34.04	2.50	300	6.27	34.06	1.79	26.80	130	0.50
229	6.96	34.04	2.56	400	5.69	34.17	1.03	26.96	116	0.62
270	6.46	34.03	2.06	500	5.22	34.24	0.54	27.07	106	0.73
368	5.85	34.14	1.24							
467	5.35	34.22	0.62							
570	5.02	34.26	0.47							
HORIZON; April 15, 1953; 1432 GCT; 35°04.5'N, 120°51.5'W; sounding, 79 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 15°.										77.50
0	9.98	33.74	5.02	0	9.98	33.74	5.02	25.99	202	0.00
9	9.86	33.78	5.01	10	9.83	33.78	4.99	26.05	197	0.02
19	9.68	33.81	4.48	20	9.67	33.82	4.37	26.11	192	0.04
28	9.61	33.85	4.21	30	9.62	33.86	4.21	26.15	188	0.06
48	9.61	33.89	4.24	50	9.61	33.89	4.23	26.17	186	0.10
72	9.54	33.85	4.21	75	9.50	33.86	4.18	26.17	186	0.14
96	8.88	33.96	2.87	100	(8.76)	(34.00)	(2.67)	(26.39)	(166)	(0.19)

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

77.55 HORIZON; April 15, 1953; 1750 GCT; 34°55'N, 121°13'W; sounding, 320 fm; wind, 310°, force 5; weather, overcast; sea, rough; wire angle, 10°.

0	10.58	33.69	5.52	0	10.58	33.69	5.52	25.85	216	0.00
10	10.56	33.69	5.47	10	10.56	33.69	5.47	25.85	216	0.02
25	10.56	33.63	5.56	20	10.58	33.64	5.54	25.81	220	0.04
49	10.48	33.69	5.39	30	10.56	33.63	5.55	25.81	221	0.06
72	10.25	33.66	5.98	50	10.48	33.69	5.39	25.87	215	0.11
95	9.66	33.71	4.34	75	10.21	33.66	5.97	25.89	213	0.16
142	8.39	34.04	2.47	100	9.50	33.74	4.10	26.07	197	0.21
186	8.06	34.11	1.98	150	8.32	34.06	2.36	26.51	156	0.30
230	7.65	34.30	1.04	200	7.95	34.18	1.74	26.66	142	0.38
275	7.39	34.34	0.94	250	7.51	34.33	0.99	26.84	126	0.44
323	7.14	34.31	0.82	300	7.27	34.33	0.87	26.87	123	0.51
368	6.86	34.33	0.73	400	6.60	34.35	0.65	26.98	114	0.62
413	6.49	34.35	0.62	500	(6.10)	(34.33)		(27.03)	(110)	(0.74)
459	6.24	34.33	0.59							

77.65 HORIZON; April 15, 1953; 2238 GCT; 34°52'N, 121°54'W; sounding, 2000+ fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 20°.

0	11.62	33.41	6.30	0	11.62	33.41	6.30	25.45	254	0.00
9	11.56	33.40	6.29	10	11.53	33.40	6.30	25.46	254	0.02
18	11.45	33.40	6.38	20	11.45	33.40	6.39	25.47	252	0.05
33	11.39	33.40	6.34	30	11.41	33.40	6.38	25.48	252	0.08
53	10.44	33.40	5.82	50	10.60	33.40	6.08	25.62	239	0.12
67	10.19	33.41	4.84	75	9.83	33.40	4.48	25.75	226	0.18
80	9.57	33.40	4.32	100	9.00	33.59	3.80	26.04	200	0.24
101	9.00	33.60	3.74	150	8.48	33.89	2.88	26.35	171	0.33
120	8.92	33.73	3.22	200	7.92	34.02	2.40	26.54	154	0.41
144	8.56	33.86	2.90	250	7.47	34.13	1.66	26.69	140	0.48
189	8.02	33.99	2.59	300	6.80	34.16	1.35	26.81	130	0.55
237	7.62	34.10	1.76	400	5.99	34.26	0.70	26.99	113	0.67
279	7.06	34.14	1.50	500	5.68	34.33	0.42	27.09	105	0.78
375	6.08	34.23	0.80							
473	5.73	34.32	0.45							
576	5.42	34.34	0.39							

80.51 HORIZON; April 15, 1953; 1047 GCT; 34°34.5'N, 120°45'W; sounding, 50 fm; wind, 310°, force 5; weather, cloudy; sea, rough; wire angle, 06°.

0	10.07	33.96	5.78	0	10.07	33.96	5.78	26.15	187	0.00
10	10.05	33.91	5.63	10	10.05	33.91	5.63	26.11	191	0.02
19	9.98	33.91	5.38	20	9.98	33.91	5.30	26.13	190	0.04
30	9.73	33.94	4.62	30	9.73	33.94	4.62	26.19	184	0.06
50	9.22	33.94	3.38	50	9.22	33.94	3.38	26.27	176	0.09
75	9.04	34.00	2.38	75	9.04	34.00	2.38	26.35	170	0.14

80.55 HORIZON; April 15, 1953; 0819 GCT; 34°28.5'N, 120°58'W; sounding, 450 fm; wind, 310°, force 5; weather, cloudy; sea, rough; wire angle, 38°.

0	11.30	33.50	6.21	0	11.30	33.50	6.21	25.57	242	0.00
8	11.28	33.50	6.04	10	11.28	33.51	6.05	25.59	241	0.02
15	11.26	33.52	6.26	20	11.26	33.52	6.27	25.60	240	0.05
27	11.25	33.49	6.29	30	11.23	33.49	6.27	25.58	242	0.07
43	10.96	33.53	5.78	50	10.61	33.54	5.42	25.73	228	0.12
55	10.43	33.54	4.97	75	9.60	33.65	3.80	25.99	204	0.17
67	10.04	33.60	4.54	100	9.12	33.78	3.21	26.17	188	0.22
86	9.25	33.69	3.34	150	8.40	33.97	2.67	26.43	164	0.31
106	9.10	33.82	3.15	200	8.08	34.04	2.28	26.53	154	0.39
131	8.68	33.94	2.76	250	7.75	34.15	1.80	26.66	143	0.46
172	8.19	33.99	2.56	300	7.43	34.20	1.42	26.75	135	0.53
221	7.98	-	2.05	400	6.80	34.26	0.85	26.88	124	0.66
261	7.67	34.17	1.68	500	5.95	34.36	0.52	27.07	106	0.78
355	7.18	34.22	1.05							
448	6.20	34.32	0.67							
547	5.79	34.39	0.40							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

HORIZON; April 15, 1953; 0434 GCT; 34°12'N, 121°16'W; sounding, 1250 fm; wind, 310°, force 6; weather, cloudy; sea, very rough; wire angle, 40°. 8060

0	11.56	33.58	6.17	0	11.56	33.58	6.17	25.59	241	0.00
8	11.56	33.59	6.19	10	11.55	33.59	6.20	25.60	240	0.02
22	11.55	33.56	6.22	20	11.55	33.57	6.21	25.58	242	0.05
46	11.55	33.55	6.19	30	11.55	33.55	6.21	25.57	243	0.07
68	11.34	33.57	5.94	50	11.52	33.55	6.18	25.57	243	0.12
88	10.40	33.64	4.42	75	11.02	33.59	5.48	25.70	232	0.18
126	9.27	33.88	2.80	100	9.91	33.73	3.83	26.00	204	0.24
166	8.96	34.03	2.27	150	9.09	34.00	2.38	26.34	172	0.33
206	8.16	34.04	2.31	200	8.24	34.04	2.33	26.51	157	0.41
252	7.78	34.10	1.76	250	7.79	34.09	1.80	26.61	148	0.49
328	7.29	34.21	1.02	300	7.50	34.19	1.23	26.73	137	0.56
415	6.44	34.23	0.72	400	6.56	34.23	0.78	26.89	122	0.69
500	5.96	34.30	0.49	500	5.96	34.30	0.49	27.03	111	0.80
680	5.08	34.39	0.30	600	5.46	34.36	0.33	27.14	101	0.91
866	4.34	34.45	0.43	700	4.98	34.40	0.30	27.22	93	1.01
1060	3.70	34.51	0.68	800	4.57	34.43	0.36	27.29	87	1.10
				1000	3.90	34.49	0.60	27.41	76	1.26

HORIZON; April 14, 1953; 2308, 2348 GCT; 33°49'N, 121°44'W; sounding, 2000+ fm; wind, 340°, force 5; weather, cloudy; sea, very rough; wire angle, 36°, 35°. 8070

0	12.50	33.18	6.17	0	12.50	33.18	6.17	25.10	286	0.00
8	12.46	33.18	6.26	10	12.44	33.18	6.26	25.11	286	0.03
22	12.34	33.22	6.32	20	12.38	33.21	6.31	25.15	283	0.06
33	12.04	33.29	6.23	30	12.20	33.29	6.30	25.24	274	0.08
49	11.66	33.24	6.04	50	11.61	33.23	6.00	25.31	268	0.14
60	10.86	33.14	5.70	75	10.37	33.20	5.45	25.51	250	0.20
77	10.30	33.22	5.44	100	9.18	33.62	3.55	26.03	200	0.26
98	9.19	33.60	3.58	150	8.55	33.91	2.71	26.36	170	0.35
				200	7.89	34.02	2.42	26.54	153	0.43
118	9.15	33.70	3.18	250	7.42	34.08	1.91	26.66	143	0.51
141	8.69	33.87	2.76	300	6.78	34.09	1.59	26.75	134	0.58
189	8.00	33.99	2.52	400	6.01	34.14	1.10	26.89	122	0.71
235	7.57	34.07	-	500	5.70	34.24	0.58	27.01	112	0.82
282	7.00	34.09	1.65	600	(5.10)	(34.34)		(27.16)	(98)	(0.93)
378	6.09	34.12	1.24							
483	5.78	34.22	0.62							
582	5.21	34.33	0.46							

HORIZON; April 14, 1953; 1656 GCT; 33°29.5'N, 122°31'W; sounding, 2000+ fm; wind, 340°, force 5; weather, cloudy; sea, very rough; wire angle, 34°. 8080

0	12.93	33.17	6.43	0	12.93	33.17	6.43	25.01	296	0.00
8	12.90	33.18	6.29	10	12.90	33.18	6.28	25.02	294	0.03
24	12.90	33.18	6.19	20	12.90	33.18	6.20	25.02	295	0.06
50	12.40	33.19	6.13	30	12.88	33.18	6.18	25.03	295	0.09
74	11.73	33.27	5.89	50	12.40	33.19	6.13	25.13	286	0.15
97	9.92	33.19	5.09	75	11.72	33.27	5.89	25.32	268	0.22
142	8.73	33.71	3.38	100	9.80	33.19	4.96	25.59	242	0.28
187	8.17	33.99	2.62	150	8.60	33.78	3.26	26.25	181	0.38
233	7.69	34.04	2.19	200	8.03	34.01	2.48	26.51	156	0.47
277	6.96	34.04	2.08	250	7.46	34.04	2.14	26.62	147	0.54
365	6.01	34.11	1.30	300	6.64	34.05	1.92	26.74	136	0.62
458	5.62	34.18	0.86	400	5.86	34.14	1.11	26.91	120	0.74
548	5.01	34.26	0.75	500	5.34	34.22	0.80	27.04	109	0.86
738	4.44	34.39	0.34	600	4.80	34.30	0.61	27.17	97	0.96
932	3.94	34.52	0.55	700	4.53	34.37	0.39	27.25	90	1.06
1129	3.41	34.49	0.95	800	4.27	34.44	0.37	27.33	83	1.14
				1000	3.75	34.51	0.69	27.44	73	1.30

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
80.90	HORIZON; April 14, 1953; 1105 GCT; 33°04'N, 123°12'W; sounding, 2000+ fm; wind, 300°, force 4; weather, partly cloudy; sea, moderate; wire angle, 35°.									
0	12.80	32.99	5.68[a]	0	12.80	32.99		24.90	306	0.00
8	12.80	32.98	4.98	10	12.80	32.98		24.89	307	0.03
16	12.78	32.98	5.53	20	12.78	32.98		24.89	307	0.06
28	12.72	32.92	5.22	30	12.71	32.92		24.86	311	0.09
42	12.50	32.94	6.16	50	12.50	32.94		24.92	306	0.15
53	12.50	32.94	6.04	75	11.95	33.09		25.14	285	0.23
63	12.23	33.05	5.41	100	11.02	33.19		25.38	262	0.30
78	11.85	33.09	5.30	150	8.89	33.56		26.03	201	0.41
94	11.36	33.19	5.23	200	8.13	33.92		26.43	164	0.50
114	9.74	33.15	4.56	250	7.58	34.00		26.57	151	0.58
149	8.90	33.54	3.67	300	7.28	34.14		26.72	138	0.66
188	8.34	33.92	2.88	400	6.27	34.13		26.85	126	0.79
221	7.80	33.91	3.36	500	(5.75)	(34.28)		(27.04)	(110)	(0.90)
296	7.31	34.14	1.55							
377	6.43	34.12	1.45							
471	5.88	34.25	0.75							
80.100	HORIZON; April 14, 1953; 0552 GCT; 32°50'N, 123°53'W; sounding, 2000+ fm; wind, 090°, force 4; weather, cloudy; sea, moderate; wire angle, 25°.									
0	14.25	33.22	5.98	0	14.25	33.22	5.98	24.78	318	0.00
8	14.24	33.21	5.87	10	14.24	33.21	5.90	24.78	318	0.03
23	14.04	33.25	6.08	20	14.10	33.24	6.06	24.83	314	0.06
49	13.92	33.18	5.98	30	14.00	33.25	6.05	24.86	311	0.10
72	13.88	33.22	6.10	50	13.91	33.18	5.99	24.82	315	0.16
98	13.87	33.23	6.10	75	13.87	33.22	6.10	24.86	312	0.24
144	10.27	33.22	5.22	100	13.65	33.23	6.01	24.91	308	0.31
187	8.76	33.67	4.00	150	9.94	33.22	5.09	25.59	243	0.45
234	8.17	33.96	3.18	200	8.56	33.78	3.77	26.25	181	0.56
276	7.74	34.04	2.64	250	8.00	34.00	2.97	26.51	157	0.64
369	6.94	34.13	1.60	300	7.51	34.07	2.35	26.64	146	0.72
457	6.28	34.19	0.86	400	6.70	34.16	1.30	26.82	130	0.86
548	5.58	34.27	0.59	500	5.94	34.22	0.72	26.97	116	0.98
728	4.73	34.37	0.34	600	5.28	34.31	0.50	27.12	102	1.09
914	4.14	34.46	0.46	700	4.83	34.36	0.37	27.21	94	1.19
1102	3.68	34.52	0.70	800	4.49	34.40	0.37	27.28	88	1.28
				1000	3.92	34.49	0.56	27.41	76	1.44
80.110	HORIZON; April 14, 1953; 0042 GCT; 32°30'N, 124°40'W; sounding, 2000+ fm; wind, 360°, force 2; weather, partly cloudy; sea, slight; wire angle, 10°.									
0	14.39	33.15	-	0	14.39	33.15	(6.00)	24.70	325	0.00
10	13.84	33.15	6.00	10	13.84	33.15	6.00	24.81	315	0.03
19	13.68	33.18	6.04	20	13.67	33.18	6.04	24.87	310	0.06
34	13.63	33.18	6.03	30	13.63	33.18	6.05	24.88	309	0.09
48	13.54	33.12	6.01	50	13.53	33.12	6.01	24.85	312	0.16
62	13.51	33.13	6.00	75	13.50	33.13	5.98	24.87	311	0.23
75	13.50	33.13	5.98	100	13.50	33.13	5.97	24.87	312	0.31
93	13.51	33.12	5.96	150	10.16	33.16	5.03	25.51	251	0.45
115	13.42	33.18	5.95	200	8.98	33.71	3.90	26.13	193	0.56
139	10.58	33.14	5.23	250	8.31	33.98	2.42	26.45	163	0.65
183	9.32	33.51	4.43	300	7.81	34.06	2.28	26.59	151	0.73
224	8.55	33.91	2.82	400	6.81	34.18	1.69	26.82	130	0.87
268	8.17	34.02	2.29	500	6.09	34.31		27.02	112	0.99
361	7.14	34.13	2.29							
449	6.44	34.25	0.85							
550	5.74	34.34	0.04r							

a) Oxygen values appear erratic; no interpolations made.

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

HORIZON; April 13, 1953; 2001 GCT; 32°11'N, 125°15'W; sounding, 2000+ fm; wind, 030°, force 2; weather, partly cloudy; sea, moderate; wire angle, 02°. 80.120

0	14.92	33.29	5.82	0	14.92	33.29	5.82	24.69	326	0.00
10	14.92	33.39	5.82	10	14.92	33.39	5.82	24.77	319	0.03
25	15.14	33.46	5.79	20	15.08	33.44	5.80	24.77	319	0.06
49	15.17	33.55	5.74	30	15.15	33.49	5.78	24.80	317	0.10
73	15.14	33.54	5.71	50	15.17	33.55	5.74	24.84	313	0.16
96	15.11	33.53	5.70	75	15.14	33.54	5.72	24.84	314	0.24
145	10.16	33.18	5.14	100	15.10	33.52	5.67	24.83	316	0.32
188	8.96	33.71	5.10	150	9.94	33.18	5.12	25.56	246	0.46
232	8.17	33.92	3.66	200	8.70	33.80	4.79	26.25	182	0.56
276	7.40	33.99	3.19	250	7.87	33.95	3.49	26.49	159	0.65
368	6.22	34.10	1.94	300	7.05	34.02	2.83	26.66	143	0.72
457	5.52	34.10	1.15	400	5.92	34.10	1.63	26.87	124	0.86
551	5.00	34.28	0.60	500	5.27	34.16	0.86	27.00	112	0.98
737	4.32	34.43	0.36	600	4.79	34.34	0.51	27.20	94	1.08
922	3.90	34.44	0.46	700	4.42	34.42	0.38	27.30	85	1.17
1119	3.45	34.50	0.82	800	4.16	34.43	0.38	27.34	82	1.25
				1000	3.72	34.46	0.60	27.41	76	1.41

HORIZON; April 13, 1953; 1552 GCT; 31°54'N, 125°48'W; sounding, 2000+ fm; wind, 090°, force 2; weather, cloudy; sea, slight; wire angle, 04°. 80.130

0	14.21	33.18	5.91	0	14.21	33.18	5.91	24.76	320	0.00
10	14.18	33.18	5.87	10	14.18	33.18	5.87	24.77	319	0.03
20	14.10	33.18	5.90	20	14.10	33.18	5.90	24.78	318	0.06
35	13.99	33.11	5.94	30	14.01	33.13	5.93	24.76	320	0.10
49	13.86	33.16	5.94	50	13.85	33.17	5.94	24.83	314	0.16
63	13.78	33.21	5.97	75	13.78	33.19	5.93	24.86	312	0.24
77	13.78	33.18	5.92	100	12.30	33.11	5.86	25.09	291	0.31
94	12.88	33.12	5.87	150	9.50	33.40	4.50	25.81	223	0.44
116	11.11	33.09	5.78	200	8.34	33.82	3.37	26.32	175	0.54
141	9.84	33.32	4.61	250	7.80	33.96	3.12	26.51	157	0.62
185	8.46	33.71	3.75	300	6.90	33.99	2.92	26.66	143	0.70
228	8.19	33.94	2.92	400	5.90	34.09	1.51	26.87	124	0.83
273	7.28	33.97	3.29	500	5.31	34.16	0.94	27.00	113	0.95
367	6.14	34.07	1.80							
461	5.52	34.12	1.08							
561	5.02	34.23	0.75							

HORIZON; April 13, 1953; 0745 GCT; 31°19'N, 126°57'W; sounding, 2000+ fm; wind, 060°, force 3; weather, cloudy; sea, slight; wire angle, 09°. 80.145

0	14.88	33.35	5.77	0	14.88	33.35	5.77	24.75	321	0.00
10	14.84	33.34	5.57	10	14.84	33.34	5.57	24.75	321	0.03
25	14.88	33.37	5.29	20	14.86	33.35	5.36	24.75	321	0.06
50	15.17	33.54	5.74	30	14.90	33.40	5.30	24.78	318	0.10
73	15.46	33.69	5.53	50	15.17	33.54	5.74	24.83	314	0.16
97	15.47	33.71	5.63	75	15.46	33.70	5.53	24.89	309	0.24
145	13.84	33.79	5.10	100	15.46	33.71	5.62	24.90	309	0.31
189	10.56	33.54	4.74	150	13.40	33.79	5.08	25.40	263	0.46
233	9.09	33.80	4.04	200	10.09	33.55	4.58	25.83	222	0.58
277	8.07	33.95	3.75	250	8.66	33.88	3.94	26.32	176	0.68
368	6.83	34.00	2.76	300	7.69	33.97	3.50	26.53	156	0.76
456	5.86	34.05	1.60	400	6.43	34.01	2.31	26.74	137	0.91
548	5.28	34.18	0.86	500	5.55	34.11	1.22	26.93	120	1.04
730	4.41	34.30	0.36	600	5.00	34.22	0.65	27.08	106	1.15
912	3.85	34.48	0.51	700	4.55	34.27	0.39	27.17	96	1.25
1109	3.48	34.54	0.88	800	4.15	34.38	0.38	27.30	86	1.34
				1000	3.68	34.52	0.68	27.46	72	1.50

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
80.160	HORIZON; April 12, 1953; 2350 GCT; 30°48'N, 127°58'W; sounding, 2000+ fm; wind, 110°, force 4; weather, cloudy; sea, moderate; wire angle, 20°.									
0	14.88	33.36	5.90	0	14.88	33.36	5.90	24.76	320	0.00
8	14.87	33.38	5.97	10	14.87	33.39	5.90	24.78	318	0.03
18	14.86	33.40	5.99	20	14.85	33.40	5.98	24.79	317	0.06
31	14.83	33.36	5.85	30	14.83	33.36	5.88	24.77	320	0.10
51	14.97	33.46	5.81	50	14.94	33.45	5.81	24.81	316	0.16
62	15.12	33.55	5.90	75	15.35	33.67	5.85	24.89	309	0.24
75	15.35	33.67	5.85	100	15.80	33.88	5.73	24.95	304	0.31
96	15.76	33.85	5.74	150	13.35	33.58	5.71	25.24	277	0.46
114	15.87	33.93	5.70	200	10.75	33.66	4.94	25.80	225	0.59
140	13.90	33.58	5.75	250	8.70	33.82	4.20	26.26	181	0.69
186	11.56	33.63	5.18	300	7.80	33.96	3.60	26.51	158	0.77
236	9.09	33.76	4.33	400	6.48	34.07	2.20	26.78	133	0.92
279	8.18	33.94	3.91	500	5.63	34.16	1.30	26.96	117	1.04
381	6.66	34.05	2.39	600	(5.01)	(34.22)		(27.08)	(106)	1.15
482	5.74	34.15	1.44							
587	5.08	34.21	0.75							
83.40	E. W. SCRIPPS; April 1, 1953; 1753 GCT; 34°14'N, 119°22'W; sounding, 14 fm; wind, calm; weather, thick fog; sea, slight; wire angle, 00°.									
0	12.38	33.57		0	12.38	33.57		25.43	256	0.00
10	11.10	33.56		10	11.10	33.56		25.66	234	0.02
20	10.29	33.66		20	10.29	33.66		25.88	214	0.05
83.40	PAOLINA-T; April 18, 1953; 0040 GCT; 34°14'N, 119°22'W; sounding, 30 fm; wind, 240°, force 3; weather, partly cloudy; sea, rough; wire angle, 10°.									
0	11.98	33.66		0	11.98	33.66		25.57	242	0.00
10	11.79	33.66		10	11.79	33.66		25.61	239	0.02
20	10.83	33.76		20	10.83	33.76		25.86	215	0.05
83.43	E. W. SCRIPPS; April 1, 1953; 1943 GCT; 34°08'N, 119°34'W; sounding, 130 fm; wind, 220°, force 1; weather, thick fog; sea, slight; wire angle, 12°.									
0	12.05	33.52		0	12.05	33.52		25.45	254	0.00
10	11.58	33.57		10	11.58	33.57		25.58	242	0.02
26	11.24	33.63		20	11.32	33.61		25.66	235	0.05
49	10.70	33.68		30	11.16	33.64		25.71	230	0.07
73	10.05	33.74		50	10.62	33.68		25.84	218	0.12
98	9.46	33.90		75	9.99	33.75		26.00	203	0.17
152	8.80	39.14		100	9.40	33.92		26.23	182	0.23
200	8.49	34.21		150	8.82	34.13		26.49	158	0.30
				200	8.49	34.21		26.60	148	0.38
83.43	PAOLINA-T; April 17, 1953; 2243 GCT; 34°08'N, 119°34'W; sounding, 150 fm; wind, 310°, force 6; weather, clear; sea, very rough; wire angle, 18°.									
0	10.74r	33.65		0	(11.35)	33.65		(25.68)	(232)	(0.00)
9	11.31	33.63		10	11.30	33.63		25.68	233	0.02
19	10.98	33.70		20	10.96	33.74		25.82	219	0.05
28	10.71	33.83		30	10.61	33.83		25.95	206	0.07
47	9.79	33.86		50	9.68	33.86		26.14	190	0.11
71	9.42	33.93		75	9.40	33.93		26.24	180	0.15
95	9.33	33.94		100	(9.33)	(33.94)		(26.26)	(179)	(0.20)
83.48	E. W. SCRIPPS; April 2, 1953; 1503 GCT; 33°58'N, 119°55'W; sounding, 130 fm; wind, 140°, force 1; weather, overcast; sea, slight; wire angle, 03°.									
0	12.08	33.45		0	12.08	33.45		25.39	259	0.00
10	12.10	33.44		10	12.10	33.44		25.38	261	0.03
25	11.86	33.43		20	12.01	33.43		25.39	260	0.05
50	10.30	33.58		30	11.38	33.44		25.51	248	0.08
75	9.88	33.66		50	10.30	33.58		25.81	220	0.12
100	9.64	33.78		75	9.88	33.66		25.95	208	0.18
155	8.90	34.10		100	9.64	33.78		26.08	196	0.23
204	8.40	34.15		150	8.98	34.08		26.42	164	0.32
				200	8.42	34.15		26.56	152	0.40

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
PAOLINA-T; April 17, 1953; 1534 GCT; 33°59'N, 119°55'W; sounding, 75 fm; wind, 320°, force 7; weather, partly cloudy; sea, rough; wire angle, 16°.										83.48
0	10.75	33.75		0	10.75	33.75		25.87	214	0.00
9	10.73	33.92		10	10.73	33.92		26.00	201	0.02
19	10.66	33.74		20	10.65	33.74		25.88	214	0.04
29	10.60	33.81		30	10.60	33.81		25.94	208	0.06
48	10.51	33.73		50	10.51	33.73		25.89	213	0.10
72	10.30	33.75		75	(10.26)	(33.75)		(25.95)	(208)	(0.16)
E. W. SCRIPPS; April 2, 1953; 1705 GCT; 33°52'N, 120°08'W; sounding, 137 fm; wind, calm; weather, fog; sea, moderate; wire angle, 00°.										83.51
0	11.49	33.48		0	11.49	33.48		25.52	247	0.00
10	11.37	33.52		10	11.37	33.52		25.58	242	0.02
25	10.91	33.56		20	11.11	33.54		25.64	236	0.05
50	9.11	34.02		30	10.60	33.59		25.77	224	0.07
75	8.82	34.06		50	9.11	34.02		26.35	169	0.11
100	8.63	34.12		75	8.82	34.06		26.43	162	0.15
125	8.56	34.18		100	8.63	34.12		26.51	155	0.19
155	8.28	34.21		150	8.35	34.21		26.62	145	0.27
PAOLINA-T; April 17, 1953; 1255, 1310 GCT; 33°52'N, 120°07'W; sounding, 73 fm; wind, 320°, force 8; weather, partly cloudy; sea, rough; wire angle, 12°, 12°.										83.51
0	12.07	33.46		0	12.07	33.46		25.40	258	0.00
9	12.09	33.50		10	12.08	33.50		25.43	256	0.03
				20	12.03	33.46		25.41	258	0.05
19	12.03	33.46		30	11.06	33.67		25.75	226	0.08
29	11.19	33.62		50	9.66	33.87		26.15	188	0.12
48	9.72	33.86		75	(9.13)	(33.94)		(26.29)	(176)	(0.16)
73	9.16	33.94								
E. W. SCRIPPS; April 2, 1953; 1940 GCT; 33°44'N, 120°24.5'W; sounding, 570 fm; wind, 270°, force 1; weather, fog; sea, moderate; wire angle, 16°.										83.55
0	12.10	-		0	12.10	(33.59)		(25.50)	(249)	(0.00)
10	12.06	33.50		10	12.06	33.50		25.43	256	0.02
24	11.90	33.41		20	11.95	33.42		25.39	260	0.05
48	10.83	-		30	11.75	33.41		25.42	257	0.08
72	10.00	33.51		50	10.66	33.43		25.63	237	0.13
96	9.62	33.83		75	9.93	33.53		25.84	218	0.18
149	8.74	39.10		100	9.56	33.88		26.17	187	0.23
197	8.26	34.19		150	8.71	34.11		26.49	158	0.32
292	7.39	34.29		200	8.20	34.19		26.63	145	0.40
392	6.84	34.29		250	7.73	34.26		26.75	134	0.47
489	6.22	34.31		300	7.33	34.29		26.83	127	0.53
591	5.91	34.30		400	6.78	34.29		26.91	121	0.66
				500	6.16	34.31		27.01	113	0.77
				600	(5.89)	(34.30)		(27.04)	(111)	(0.88)
PAOLINA-T; April 17, 1953; 0947 GCT; 33°40'N, 120°14.5'W; sounding, 600 fm; wind, 340°, force 3; weather, overcast; sea, rough; wire angle, 17°.										83.55
0	11.44	33.47		0	11.44	33.47		25.53	247	0.00
9	11.46	33.46		10	11.46	33.46		25.51	248	0.02
23	11.13	33.55		20	11.29	33.54		25.61	239	0.05
48	10.59	33.65		30	11.03	33.61		25.71	230	0.07
73	9.09	33.53		50	10.49	33.65		25.84	218	0.12
96	8.68	33.85		75	9.04	33.54		25.99	204	0.17
149	8.16	33.98		100	8.58	33.86		26.31	174	0.22
195	8.22	34.23		150	8.17	33.99		26.48	159	0.30
289	7.52	34.25		200	8.22	34.24		26.67	142	0.38
389	6.90	34.32		250	7.84	34.24		26.72	137	0.45
484	6.54	34.30		300	7.44	34.26		26.80	131	0.51
586	5.90	34.35		400	6.86	34.32		26.92	120	0.64
				500	6.47	34.30		26.96	118	0.76
				600	(5.73)	(34.36)		(27.10)	(104)	(0.87)

	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
83.60	E. W. SCRIPPS; April 2, 1953; 2255 GCT; 33°33'N, 120°44.5'W; sounding, 1000 fm; wind, 270°, force 1; weather, fog; sea, slight; wire angle, 07°.										
	0	12.57	-		0	12.57	(33.36)		(25.23)	(275)	(0.00)
	10	12.32	33.36		10	12.32	33.36		25.28	271	0.03
	24	12.25	33.39		20	12.27	33.38		25.30	268	0.05
	54	11.58	33.38		30	12.20	33.39		25.32	267	0.08
	79	10.33	33.39		50	11.76	33.38		25.37	262	0.13
	109	8.98	-		75	10.52	33.38		25.62	239	0.20
	164	8.26	33.91		100	9.14	33.43		25.89	214	0.25
	218	7.79	34.02		150	8.39	33.82		26.31	175	0.35
	325	6.92	34.15		200	7.93	33.99		26.51	156	0.43
	437	6.38	34.26		250	7.48	34.06		26.63	146	0.51
	544	5.76	34.32		300	7.10	34.12		26.73	136	0.58
	653	5.32	34.40		400	6.55	34.23		26.89	122	0.71
					500	6.01	34.30		27.02	111	0.82
					600	5.50	34.36		27.13	102	0.93
83.60	PAOLINA-T; April 17, 1953; 0543 GCT; 33°30'N, 120°39'W; sounding, 750 fm; wind, 310°, force 4; weather, drizzle; sea, rough; wire angle, 00°.										
	0	12.08	33.28		0	12.08	33.28		25.26	272	0.00
	10	12.10	33.26		10	12.10	33.26		25.24	274	0.03
	25	12.10	33.28		20	12.10	33.27		25.25	274	0.06
	56	10.63	33.39		30	12.05	33.29		25.27	271	0.08
	80	9.10	33.49		50	11.29	33.37		25.48	252	0.13
	110	8.71	33.74		75	9.20	33.47		25.91	212	0.19
	164	7.98	33.96		100	8.85	33.63		26.09	195	0.24
	219	7.60	34.07		150	8.11	33.92		26.43	163	0.33
	323	7.01	34.14		200	7.72	34.04		26.58	150	0.41
	435	6.32	34.23		250	7.41	34.09		26.67	142	0.48
	543	5.70	34.33		300	7.13	34.12		26.73	137	0.55
	650	5.38	34.36		400	6.54	34.20		26.87	124	0.68
					500	5.93	34.29		27.02	111	0.80
					600	5.50	34.35		27.12	102	0.91
83.70	PAOLINA-T; April 16, 1953; 2253 GCT; 33°12.5'N, 121°25.5'W; sounding, 2340 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 33°.										
	0	13.14	33.10		0	13.14	33.10		24.92	305	0.00
	8	13.14	33.09		10	13.14	33.09		24.91	306	0.03
	21	13.02	33.15		20	13.03	33.15		24.98	299	0.06
	46	12.84	33.09		30	12.94	33.13		24.98	299	0.09
	66	11.95	33.16		50	12.76	33.09		24.98	300	0.15
	88	11.18	33.19		75	11.56	33.18		25.28	272	0.22
	119p	9.52	33.29		100	10.62	33.21		25.47	254	0.29
	128	9.33	33.42		150	8.83	33.74		26.18	187	0.40
	167	8.47	33.85		200	8.11	33.92		26.43	164	0.49
	196p	8.14	33.91		250	7.68	33.97		26.53	155	0.57
	274p	7.49	34.00								
83.80	PAOLINA-T; April 16, 1953; 1553 GCT; 32°53.5'N, 122°07'W; sounding, 2400 fm; wind, 330°, force 4; weather, overcast; sea, rough; wire angle, 25°.										
	0	13.06	33.05		0	13.06	33.05		24.89	307	0.00
	9	13.08	33.05		10	13.09	33.05		24.89	308	0.03
	23	13.08	33.05		20	13.09	33.05		24.89	308	0.06
	49	12.60	32.99		30	13.03	33.03		24.88	308	0.09
	72	12.14	33.05		50	12.57	32.99		24.94	303	0.15
	99	11.74	33.20		75	12.10	33.07		25.09	289	0.23
	147	9.24	33.46		100	11.68	33.21		25.28	272	0.30
	194	8.52	33.82		150	9.18	33.48		25.92	212	0.42
	292	7.09	34.03		200	8.44	33.84		26.32	175	0.52
	395	6.20	34.06		250	7.64	33.97		26.54	154	0.60
	498	5.30	34.13		300	7.00	34.04		26.68	141	0.67
	604	4.89	34.20		400	6.15	34.06		26.81	130	0.81
					500	5.28	34.14		26.98	114	0.93
					600	4.91	34.20		27.07	106	1.04

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
PAOLINA-T; April 16, 1953; 0905 GCT; 32°34.5'N, 122°48'W; sounding, 2590 fm; wind, 310, force 3; weather, clear; sea, rough; wire angle, 13°.										83.90
0	13.29	33.04		0	13.29	33.04		24.84	312	0.00
10	13.30	33.05		10	13.30	33.05		24.84	312	0.03
25	12.80	33.10		20	13.04	33.09		24.93	304	0.06
54	12.12	33.09		30	12.68	33.10		25.01	297	0.09
78	11.76	-		50	12.20	33.09		25.09	289	0.15
107	10.22	33.12		75	11.82	33.09		25.16	283	0.22
159	8.70	33.54		100	10.60	33.11		25.40	261	0.29
212	8.22	33.92		150	8.82	33.42		25.93	211	0.41
317	7.00	34.04		200	8.32	33.87		26.36	171	0.50
438	5.87	34.08		250	7.88	33.99		26.52	156	0.58
535	5.28	34.18		300	7.20	34.03		26.65	145	0.66
644	4.77	34.25		400	6.15	34.06		26.81	130	0.80
				500	5.48	34.15		26.97	116	0.92
				600	4.93	34.23		27.10	104	1.03
E. W. SCRIPPS; April 3, 1953; 1914 GCT; 34°00'N; 119°04'W; sounding, 300 fm; wind, 270°, force 2; weather, fog; sea, slight; wire angle, 00°.										85.39
0	12.89	33.40		0	12.89	33.40		25.20	278	0.00
10	12.68	33.38		10	12.68	33.38		25.22	276	0.03
25	11.95	33.43		20	12.24	33.40		25.32	266	0.06
50	10.31	33.49		30	11.76	33.44		25.44	255	0.08
75	9.60	33.82		50	10.31	33.49		25.74	227	0.13
100	9.36	-		75	9.60	33.82		26.12	192	0.18
155	8.98	-		100	9.36					
206	8.66	-		150	9.00					
				200	8.69					
PAOLINA-T; April 13, 1953; 1422 GCT; 33°59.5'N, 119°02.5'W; sounding, 55 fm; wind, 110°, force 2; weather, overcast; sea, slight; wire angle, 00°.										85.39
0	11.38	33.57		0	11.38	33.57		25.61	238	0.00
10	11.13	33.58		10	11.13	33.58		25.67	233	0.02
20	10.74	33.66		20	10.74	33.66		25.80	221	0.05
30	10.58	33.59		30	10.58	33.59		25.77	224	0.07
50	10.22	33.64		50	10.22	33.64		25.87	214	0.11
75	9.80	34.69r		75	9.80					
E. W. SCRIPPS; April 3, 1953; 1650, 1709 GCT; 33°57'N, 119°10.5'W; sounding, 420 fm; wind, calm; weather, fog; sea, smooth; wire angle, 00°, 00°.										85.40
0	12.77	33.38		0	12.77	33.38		25.20	277	0.00
10	12.61	33.40		10	12.61	33.40		25.25	273	0.03
25	10.85	33.48		20	11.30	33.44		25.53	247	0.05
50	9.66	33.72		30	10.41	33.52		25.75	226	0.08
75	9.40	33.79		50	9.66	33.72		26.03	200	0.12
100	9.31	33.90		75	9.40	33.79		26.13	191	0.17
154	8.92	34.07		100	9.31	33.90		26.23	182	0.22
204	8.46	34.07		150	8.96	34.07		26.42	165	0.30
				200	8.49	34.07		26.49	158	0.38
301	7.82	34.25		250	8.13	34.18		26.63	146	0.46
402	7.11	34.29		300	7.82	34.25		26.73	131	0.53
500	6.42	34.32		400	7.13	34.29		26.86	126	0.66
605	5.88	34.38		500	6.42	34.32		26.98	115	0.78
				600	5.89	34.37		27.09	106	0.89

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OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
85.40	PAOLINA-T; April 13, 1953; 1110 GCT; 33°56'N, 119°10'W; sounding, 460 fm; wind, 340°, force 1; weather, partly cloudy; sea, slight; wire angle, 15°.									
0	11.59	33.52		0	11.59	33.52		25.54	246	0.00
9	11.58	33.52		10	11.58	33.52		25.54	246	0.02
24	11.10	33.54		20	11.28	33.53		25.60	240	0.05
48	10.66	33.54		30	10.97	33.54		25.67	234	0.07
72	10.01	33.77		50	10.60	33.54		25.73	228	0.12
97	9.58	33.85		75	9.94	33.78		26.03	200	0.17
149	9.06	34.01		100	9.53	33.86		26.16	188	0.22
198	8.69	34.13		150	9.05	34.01		26.36	171	0.31
293	7.98	34.28		200	8.66	34.13		26.51	157	0.39
393	7.21	34.27		250	8.30	34.23		26.65	145	0.47
490	6.65	34.32		300	7.91	34.28		26.74	136	0.54
591	6.19	34.44		400	7.16	34.27		26.84	128	0.67
				500	6.60	34.33		26.97	117	0.79
				600	(6.15)	(34.45)		(27.12)	(103)	(0.90)
85.45	E. W. SCRIPPS; April 3, 1953; 1252 GCT; 33°47'N, 119°31'W; sounding, 800 fm; wind, calm; weather, missing; sea, slight; wire angle, 00°.									
0	13.60	33.38		0	13.60	33.38		25.04	293	0.00
10	12.86	33.44		10	12.86	33.44		25.23	275	0.03
25	11.77	33.47		20	12.00	33.46		25.41	258	0.06
50	11.22	33.56		30	11.59	33.48		25.51	249	0.08
75	10.90	33.65		50	11.22	33.56		25.64	237	0.13
100	9.52	33.86		75	10.90	33.65		25.76	226	0.19
155	9.02	34.20		100	9.52	33.86		26.16	188	0.24
204	8.54	34.15		150	9.06	34.20		26.50	157	0.32
302	7.38	34.25		200	8.57	34.15		26.54	154	0.40
404	7.06	34.25		250	7.89	34.21		26.69	140	0.48
501	6.47	34.30		300	7.39	34.25		26.79	131	0.54
604	5.88	34.34		400	7.09	34.25		26.84	128	0.67
				500	6.48	34.30		26.96	118	0.80
				600	5.90	34.34		27.07	108	0.91
85.45	PAOLINA-T; April 13, 1953; 0551, 0628 GCT; 33°46'N, 119°33'W; sounding, 1100 fm; wind, 310°, force 2; weather, overcast; sea, slight; wire angle, 05°, missing.									
0	12.85	33.38		0	12.85	33.38		25.19	279	0.00
15	12.78	33.42		10	12.80	33.40		25.21	276	0.03
40	11.36	33.54		20	12.77	33.44		25.25	273	0.06
64	10.71	33.52		30	11.90	33.52		25.48	252	0.08
89	9.63	33.69		50	11.00	33.54		25.66	235	0.13
144	8.89	34.02		75	10.20	33.58		25.83	219	0.19
193	8.48	34.12		100	9.36	33.78		26.13	191	0.24
				150	8.85	34.04		26.41	165	0.33
288	7.90	34.27		200	8.42	34.13		26.55	153	0.41
389	7.12	34.32		250	8.11	34.21		26.66	143	0.48
486	6.26	34.35		300	7.81	34.28		26.76	135	0.55
589	5.66	34.37		400	7.03	34.32		26.90	122	0.68
				500	6.16	34.35		27.04	110	0.80
				600	(5.61)	(34.37)		(27.13)	(102)	(0.90)
85.50	E. W. SCRIPPS; April 3, 1953; 0855 GCT; 33°37'N, 119°52'W; sounding, 132 fm; wind, calm; weather, cloudy; sea, moderate; wire angle, 05°.									
0	12.88	33.46		0	12.88	33.46		25.24	273	0.00
10	11.84	33.52		10	11.84	33.52		25.49	250	0.02
25	11.62	33.52		20	11.70	33.52		25.52	248	0.05
50	9.95	33.70		30	11.43	33.53		25.57	243	0.08
75	9.31	33.92		50	9.95	33.70		25.97	206	0.12
100	8.84	34.47r		75	9.31	33.92		26.24	180	0.17
124	8.79	34.12		100	8.84	34.05		26.43	164	0.21
154	8.62	34.17		150	8.65	34.16		26.54	153	0.29

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn.m

PAOLINA-T; April 13, 1953; 0057, 0139 GCT; 33°35'N, 119°45'W; sounding, 360 fm; wind, 310°, force 2; weather, partly cloudy; sea, slight; wire angle, 21°, 20°. 85.50

0	12.51	33.45	0	12.51	33.45	25.31	267	0.00
9	11.80	33.42	10	11.62	33.42	25.45	254	0.03
23	11.34	33.50	20	11.38	33.48	25.54	245	0.05
47	11.24	33.56	30	11.31	33.52	25.59	241	0.08
70	9.62	33.76	50	11.12	33.59	25.68	233	0.12
94	9.22	33.89	75	9.47	33.81	26.13	190	0.18
144	8.70	34.05	100	9.12	33.91	26.27	178	0.22
189	8.34	34.17	150	8.64	34.07	26.47	160	0.31
252	7.97	34.21	200	8.26	34.18	26.61	147	0.38
			250	7.97	34.21	26.68	141	0.46
349	7.28	34.25	300	7.62	34.23	26.75	136	0.52
440	6.98	34.28	400	7.13	34.26	26.84	128	0.66
541	5.72	34.34	500	6.33	34.31	26.99	115	0.78

E. W. SCRIPPS; April 3, 1953; 0501 GCT; 33°27'N, 120°12.5'W; sounding, 650 fm; wind, calm; weather, overcast; sea, moderate; wire angle, 00°. 85.55

0	11.88	33.53	0	11.88	33.53	25.49	250	0.00
10	11.88	33.80	10	11.88	33.80	25.70	230	0.02
25	11.38	33.62	20	11.65	33.63	25.61	239	0.05
50	9.86	33.69	30	11.00	33.63	25.73	228	0.07
75	9.11	33.82	50	9.86	33.69	25.97	205	0.11
100	8.64	33.86	75	9.11	33.82	26.20	184	0.16
128p	8.45	33.95	100	8.64	33.86	26.30	174	0.21
159	8.42	34.15	150	8.44	34.12	26.54	153	0.29
207	8.24	34.20	200	8.26	34.20	26.63	146	0.36
297p	7.48	34.22	250	7.91	34.21	26.69	140	0.44
			300	(7.41)	(34.22)	(26.77)	(133)	(0.50)

PAOLINA-T; April 12, 1953; 1942 GCT; 33°26'N, 120°10'W; sounding, 700 fm; wind, 320°, force 4; weather, partly cloudy; sea, rough; wire angle, 43°. 85.55

0	11.21	33.46	0	11.21	33.46	25.56	243	0.00
8	11.14	33.48	10	11.11	33.48	25.59	240	0.02
20	11.04	33.46	20	11.04	33.46	25.59	241	0.05
39	11.04	33.45	30	11.04	33.45	25.59	242	0.07
58	11.01	33.53	50	11.03	33.50	25.62	239	0.12
78	10.32	33.44	75	10.40	33.45	25.70	232	0.18
111	8.91	33.70	100	9.03	33.58	26.02	201	0.23
143	8.87	34.04	150	8.86	34.07	26.43	163	0.32
197	8.66	34.15	200	8.62	34.15	26.53	155	0.40
258	8.12	34.20	250	8.18	34.19	26.63	146	0.48
338	7.60	34.27	300	7.83	34.24	26.72	138	0.55
432	6.94	34.29	400	7.18	34.29	26.86	127	0.68

E. W. SCRIPPS; April 3, 1953; 0135, 0152 GCT; 33°16.5'N, 120°33'W; sounding, 720 fm; wind, 310°, force 1; weather, overcast; sea, rough; wire angle, 10°, 12°. 85.60

0	12.38	33.33	0	12.38	33.33	25.24	274	0.00
10	12.26	33.33	10	12.26	33.33	25.26	272	0.03
25	12.20	33.37	20	12.21	33.36	25.30	269	0.05
49	12.17	33.39	30	12.20	33.37	25.31	268	0.08
73	11.17	33.42	50	12.14	33.39	25.33	266	0.14
98	9.41	33.66	75	10.92	33.42	25.58	243	0.20
153	8.41	33.95	100	9.32	33.69	26.06	198	0.25
202	8.00	34.02	150	8.44	33.94	26.40	166	0.34
			200	8.00	34.02	26.53	155	0.42
297	7.51	34.16	250	7.83	34.07	26.59	150	0.50
398	6.68	34.36u	300	7.48	34.17	26.72	138	0.57
495	6.20	34.27	400	6.66	34.25	26.90	121	0.70
601	5.64	34.34	500	6.18	34.27	26.97	116	0.81
			600	5.65	34.34	27.10	105	0.92

SIO

CCOFI 5304

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

85.60 PAOLINA-T; April 12, 1953; 1620 GCT; 33°12'N, 120°34'W; sounding, 970 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 31°.

0	11.83	33.35	0	11.83	33.35	25.36	262	0.00
9	11.88	33.28	10	11.86	33.28	25.30	268	0.03
23	11.87	33.37	20	11.85	33.35	25.36	263	0.05
51	11.62	33.41	30	11.83	33.39	25.39	260	0.08
74	11.24	33.34	50	11.64	33.41	25.44	256	0.13
103	10.90	33.49	75	11.21	33.34	25.47	254	0.20
154	8.88	33.80	100	10.94	33.46	25.61	240	0.26
204	8.13	34.01	150	8.95	33.78	26.19	186	0.36
253	7.56	34.06	200	8.19	34.00	26.48	159	0.45
406	6.41	34.19	250	7.61	34.06	26.61	147	0.53
506	6.08	34.34	300	7.11	34.09	26.71	139	0.60
606	5.64	34.39	400	6.45	34.18	26.87	125	0.73
			500	6.08	34.33	27.03	110	0.85
			600	5.66	34.39	27.13	101	0.95

87.35 E. W. SCRIPPS; April 1, 1953; 1138 GCT; 33°50'N, 118°37.5'W, sounding, 300 fm; wind, calm; weather, cloudy; sea, slight; wire angle, 05°.

0	13.50	33.35	0	13.50	33.35	25.04	293	0.00
10	13.22	33.49	10	13.22	33.49	25.20	278	0.03
25	11.58	33.38	20	12.10	33.40	25.35	264	0.06
50	10.14	33.56	30	10.96	33.39	25.47	252	0.08
99	9.39	33.94	50	10.14	33.56	25.83	220	0.13
154	9.21	34.11	75	9.61	33.80	26.10	193	0.18
204	9.00	34.21	100	9.38	33.95	26.26	179	0.23
254	8.82	34.29	150	9.22	34.11	26.41	166	0.31
302	8.04	34.24	200	9.02	34.20	26.51	157	0.39
356	7.48	34.25	250	8.85	34.29	26.61	149	0.47
405	7.19	34.27	300	8.08	34.24	26.69	142	0.54
455	6.82	34.29	400	7.20	34.27	26.84	128	0.68
			500	(6.53)	(34.30)	(26.95)	(118)	(0.80)

87.35 PAOLINA-T; April 13, 1953; 1806 GCT; 33°49'N, 118°36'W; sounding, 220 fm; wind, 140°, force 1; weather, partly cloudy; sea, slight; wire angle, 00°.

0	12.02	33.47	0	12.02	33.47	25.42	257	0.00
10	11.42	33.46	10	11.42	33.46	25.52	247	0.02
25	10.92	33.54	20	11.03	33.52	25.64	236	0.05
50	10.26	33.58	30	10.80	33.55	25.70	230	0.07
75	9.75	33.76	50	10.26	33.58	25.82	220	0.12
99	9.62	33.90	75	9.75	33.76	26.05	199	0.17
153	9.25	34.14	100	9.62	33.91	26.19	186	0.22
203	9.08	34.20	150	9.27	34.13	26.41	165	0.31
253	8.72	34.25	200	9.11	34.20	26.49	158	0.39
303	8.04	34.22	250	8.73	34.25	26.59	150	0.46
			300	8.12	34.23	26.67	143	0.54

87.40 E. W. SCRIPPS; April 1, 1953; 0810 GCT; 33°40'N, 118°58.5'W; sounding, 450 fm; wind, 120°, force 1; weather, clear; sea, slight; wire angle, 00°.

0	13.64	33.37	0	13.64	33.37	25.02	294	0.00
10	13.66	33.36	10	13.66	33.36	25.01	296	0.03
25	13.38	33.35	20	13.55	33.35	25.03	295	0.06
50	11.59	33.38	30	13.12	33.35	25.11	287	0.09
75	9.93	33.64	50	11.59	33.38	25.43	257	0.14
100	9.59	33.80	75	9.93	33.64	25.92	210	0.20
			100	9.59	33.80	26.10	194	0.25

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

PAOLINA-T; April 14, 1953; 1409 GCT; 33°41'N, 119°02'W; sounding, 360 fm; wind, 090°, force 1; weather, clear; sea, moderate; wire angle, 05°. 87.40

0	13.47	33.39	0	13.47	33.39	25.07	290	0.00
10	13.23	33.38	10	13.23	33.38	25.11	286	0.03
25	12.22	33.41	20	12.50	33.39	25.26	272	0.06
50	10.63	33.49	30	11.94	33.42	25.39	260	0.08
75	9.64	33.79	50	10.63	33.49	25.69	232	0.13
100	9.60	33.96	75	9.64	33.79	26.09	195	0.19
154	9.18	34.23	100	9.60	33.96	26.23	182	0.23
203	8.54	34.16	150	9.22	34.23	26.50	157	0.32
271	7.94	34.25	200	8.57	34.16	26.55	153	0.40
401	6.72	34.26	250	8.15	34.22	26.66	143	0.47
498	6.18	34.32	300	7.60	34.26	26.77	133	0.54
601	5.73	34.32	400	6.74	34.26	26.89	123	0.67
			500	6.16	34.32	27.02	112	0.78
			600	5.74	34.32	27.07	108	0.89

E. W. SCRIPPS; April 1, 1953; 0440 GCT; 33°30'N, 119°19'W; sounding, 850 fm; wind, 300°, force 3; weather, clear; sea, moderate; wire angle, 05°. 87.45

0	13.09	33.46	0	13.09	33.46	25.20	277	0.00
10	12.76	33.41	10	12.76	33.41	25.23	275	0.03
25	10.92	33.84	20	11.23	33.83	25.84	217	0.05
56	9.28	33.79	30	10.49	33.84	25.98	204	0.07
81	8.98	33.94	50	9.38	33.80	26.14	189	0.11
110	8.86	33.98	75	9.00	33.91	26.29	176	0.16
165	8.54	34.09	100	8.91	33.97	26.35	170	0.20
219	8.24	34.17	150	8.61	34.06	26.46	160	0.28
325	7.37	34.25	200	8.36	34.15	26.57	151	0.36
438	6.76	34.30	250	7.96	34.20	26.67	142	0.44
546	6.02	34.41	300	7.54	34.23	26.76	134	0.50
653	5.57	34.36	400	6.98	34.28	26.88	124	0.63
			500	6.33	34.37	27.03	110	0.75
			600	5.78	34.39	27.12	103	0.86

PAOLINA-T; April 14, 1953; 1740 GCT; 33°32'N, 119°20'W; sounding, 1010 fm; wind, calm; weather, clear; sea, moderate; wire angle, 03°. 87.45

0	13.04	33.43	0	13.04	33.43	25.19	279	0.00
11	12.86	33.46	10	12.87	33.46	25.25	273	0.03
25	12.72	33.42	20	12.75	33.43	25.25	274	0.06
50	9.80	33.67	30	12.66	33.43	25.26	272	0.08
75	9.24	33.86	50	9.80	33.67	25.97	206	0.13
92p	9.20	33.90	75	9.24	33.86	26.21	183	0.18
99	9.10	33.94	100	9.08	33.94	26.30	175	0.22
153	8.69	34.09	150	8.72	34.09	26.47	160	0.31
171p	8.52	34.09	200	8.45	34.12	26.54	154	0.39
203	8.43	34.13	250	8.01	34.17	26.64	145	0.46
247p	8.05	34.17	300	7.53	34.20	26.74	137	0.53
331p	7.36	34.22						

E. W. SCRIPPS; April 1, 1953; 0129 GCT; 33°20.5'N, 119°39'W; sounding, 45 fm; wind, 300°, force 3; weather, clear; sea, moderate: wire angle, 20°. 87.50

0	13.02	33.50	0	13.02	33.50	25.25	273	0.00
9	12.86	33.41	10	12.80	33.41	25.22	276	0.03
18	12.68	33.46	20	12.60	33.50	25.33	266	0.06
38	12.38	33.56	30	12.25	33.56	25.44	255	0.08
47	11.13	33.51	50	10.49	33.52	25.73	228	0.13
70	9.22	33.84						

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
87.50 PAOLINA-T; April 14, 1953; 2126 GCT; 33°21'N, 119°39.5'W; sounding, 53 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 00°.										
0	13.10	33.48		0	13.10	33.48		25.22	276	0.00
10	12.46	33.46		10	12.46	33.46		25.33	266	0.03
20	11.38	33.53		20	11.38	33.53		25.58	242	0.05
30	10.81	33.56		30	10.81	33.56		25.71	230	0.08
50	9.85	33.70		50	9.85	33.70		25.98	204	0.12
87.55 E. W. SCRIPPS; March 31, 1953; 2235 GCT; 33°10.5'N, 120°01'W; sounding, 620 fm; wind, 300°, force 3; weather, partly cloudy; sea, rough; wire angle, 23°.										
0	12.17	33.39		0	12.17	33.39		25.33	265	0.00
9	12.14	33.41		10	12.14	33.41		25.35	264	0.03
23	11.88	33.40		20	11.97	33.41		25.38	261	0.05
51	11.68	33.47		30	11.80	33.40		25.41	259	0.08
74	10.03	33.45		50	11.70	33.47		25.48	252	0.13
101	9.22	33.63		75	9.97	33.45		25.77	225	0.19
152	8.60	33.95		100	9.26	33.62		26.02	202	0.24
202	8.32	34.15		150	8.62	33.94		26.37	169	0.34
304	7.56	34.28		200	8.33	34.14		26.57	151	0.42
410	6.88	34.31		250	7.98	34.23		26.69	140	0.49
514	6.06	34.33		300	7.58	34.28		26.79	131	0.56
620	5.66	34.37		400	6.94	34.31		26.90	122	0.68
				500	6.16	34.33		27.02	111	0.80
				600	5.71	34.36		27.11	104	0.91
87.55 PAOLINA-T; April 15, 1953; 0053 GCT; 33°07.5'N, 120°03'W; sounding, 710 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 18°.										
0	12.12	33.50		0	12.12	33.50		25.42	256	0.00
9	12.11	33.51		10	12.10	33.51		25.43	256	0.03
23	11.71	33.51		20	11.90	33.51		25.47	252	0.05
52	10.14	33.59		30	11.20	33.52		25.61	240	0.08
75	9.50	33.62		50	10.20	33.58		25.83	219	0.12
104	9.20	33.86		75	9.50	33.62		25.98	205	0.17
156	8.82	34.04		100	9.23	33.80		26.16	188	0.22
207	8.46	34.12		150	8.88	34.03		26.40	166	0.31
309	7.52	34.20		200	8.51	34.11		26.52	156	0.39
414	6.44	34.27		250	8.08	34.16		26.62	147	0.47
517	6.06	34.31		300	7.61	34.19		26.72	138	0.54
624	5.48	34.32		400	6.55	34.26		26.92	120	0.67
				500	6.12	34.31		27.01	112	0.79
				600	5.67	34.32		27.08	107	0.88
87.60 PAOLINA-T; April 15, 1953; 0512, 0547 GCT; 32°55.5'N, 120°24'W; sounding, 420 fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 34°, 28°.										
0	11.59	33.46		0	11.59	33.46		25.49	250	0.00
8	11.58	33.47		10	11.55	33.49		25.52	247	0.02
21	11.46	33.52		20	11.47	33.52		25.56	244	0.05
45	11.24	33.48		30	11.40	33.51		25.56	244	0.07
66	10.95	33.48		50	11.20	33.48		25.58	243	0.12
91	9.98	33.50		75	10.72	33.48		25.66	235	0.18
133	8.59	33.92		100	9.27	33.55		25.96	207	0.24
175	8.40	34.05		150	8.52	33.96		26.40	166	0.33
				200						
138[a)]	8.55	33.93		250						
512	6.26	34.30		300						
614	5.68	34.33		400						
				500	(6.33)	(34.30)		(26.98)	(116)	(0.82)
				600	5.77	34.33		27.07	107	(0.94)

a) It was assumed that cast 2 started with this depth.

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
PAOLINA-T; April 15, 1953; 1220 GCT; 32°32'N, 121°04'W; sounding, 2350 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 30°.										87.70
0	12.66	33.11		0	12.66	33.11		25.02	295	0.00
8	12.66	33.13		10	12.65	33.13		25.03	294	0.03
22	12.58	33.14		20	12.59	33.14		25.05	292	0.06
48	12.43	33.15		30	12.53	33.15		25.07	290	0.09
70	11.02	33.11		50	12.43	33.15		25.09	289	0.15
96	9.78	33.25		75	10.55	33.11		25.41	260	0.21
143	8.78	33.69		100	9.65	33.29		25.70	232	0.28
190	8.24	33.91		150	8.70	33.74		26.20	185	0.38
283	7.54	34.06		200	8.16	33.94		26.44	163	0.47
384	6.80	34.20		250	7.77	34.01		26.55	153	0.55
479	6.24	34.29		300	7.42	34.08		26.66	144	0.62
578	5.60	34.32		400	6.72	34.22		26.86	125	0.76
				500	6.10	34.31		27.02	112	0.87
PAOLINA-T; April 15, 1953; 2020 GCT; 32°09.5'N, 121°44'W; sounding, 2120 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 15°.										87.80
0	13.44	33.12		0	13.44	33.12		24.87	309	0.00
9	13.40	33.11		10	13.38	33.11		24.88	309	0.03
24	13.29	33.10		20	13.32	33.10		24.88	309	0.06
53	12.86	33.15		30	13.21	33.10		24.90	307	0.09
77	12.43	34.40r		50	12.92	33.15		25.00	298	0.15
106	11.06	33.13		75	12.45	33.15		25.09	290	0.23
159	8.86	33.92		100	11.40	33.13		25.27	273	0.30
213	8.06	34.07		150	9.05	33.88		26.25	180	0.41
318	7.31	34.13		200	8.21	34.05		26.51	157	0.49
428	6.59	34.26		250	7.78	34.10		26.62	147	0.57
533	5.94	34.32		300	7.42	34.12		26.69	141	0.64
640	5.28	34.32		400	6.76	34.23		26.87	125	0.78
				500	6.15	34.31		27.01	112	0.89
				600	5.52	34.33		27.10	104	1.00
PAOLINA-T; April 16, 1953; 0201 GCT; 32°00'N, 122°24'W; sounding, 2450 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 20°.										87.90
0	13.52	33.09		0	13.52	33.09		24.83	313	0.00
9	13.53	33.06		10	13.54	33.06		24.80	316	0.03
23	13.08	33.04		20	13.30	33.04		24.84	313	0.06
52	12.50	33.02		30	12.87	33.03		24.91	306	0.09
74	12.40	33.09		50	12.54	33.02		24.97	301	0.15
103	11.70	33.12		75	12.40	33.09		25.05	293	0.23
154	8.93	-		100	12.30	33.11		25.09	291	0.30
210	8.28	33.94		150	9.05	33.67		26.09	196	0.42
304	7.11	34.05		200	8.38	33.91		26.38	169	0.51
410	6.14	34.24		250	7.85	34.00		26.53	155	0.60
512	5.24	34.12		300	7.18	34.04		26.66	144	0.67
616	5.04	34.28		400	6.23	34.23		26.94	118	0.80
				500	5.32	34.13		26.97	115	0.92
				600	5.04	34.25		27.10	104	1.03
HORIZON; April 8, 1953; 0544 GCT; 33°29'N, 117°48'W; sounding, 310 fm; wind, 300°, force 4; weather, clear; sea, rough; wire angle, 17°.										90.28
0	13.30	33.44	6.22	0	13.30	33.44	6.22	25.15	283	0.00
9	13.26	33.42	6.44	10	13.22	33.42	6.43	25.15	283	0.03
24	11.92	33.49	6.17	20	12.85	33.46	6.33	25.25	273	0.06
48	10.33	33.59	3.47	30	11.40	33.53	5.62	25.58	242	0.08
71	10.05	33.78	3.12	50	10.31	33.60	3.45	25.83	219	0.13
94	9.64	33.92	2.80	75	10.00	33.81	3.07	26.04	199	0.18
141	9.48	34.14	1.98	100	9.60	33.96	2.71	26.23	182	0.23
185	9.43	34.26	2.22r	150	9.47	34.17	1.90	26.41	165	0.32
231	9.20	34.35	1.25	200	9.38	34.29	1.48	26.52	156	0.40

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn.m
90.30	**HORIZON**; April 8, 1953; 0755 GCT; 33°25'N, 117°55'W; sounding, 340 fm; wind, 300°, force 4; weather, partly cloudy; sea, rough; wire angle, 23°.									
0	13.51	33.56	7.74a)	0	13.51	33.56	7.74	25.20	278	0.00
8	13.52	33.55	8.47a)	10	13.51	33.55	8.45	25.19	279	0.03
23	11.24	33.56	4.97	20	12.12	33.55	6.15	25.46	253	0.05
46	9.92	33.71	2.98	30	10.65	33.58	4.00	25.75	226	0.08
69	9.82	33.86	2.71	50	9.90	33.74	2.93	26.01	202	0.12
90	9.63	33.97	2.40	75	9.79	33.90	2.62	26.15	189	0.17
134	9.34	34.13	2.12	100	9.54	34.01	2.33	26.28	177	0.22
173	9.17	34.25	1.80	150	9.29	34.20	2.00	26.47	160	0.30
214	8.68	34.26	1.62	200	8.83	34.26	1.70	26.59	150	0.38
256	8.54	34.21	1.23	250	8.57	34.30	1.30	26.66	144	0.45
303	8.13	-	0.88	300	8.17	34.36	0.91	26.77	134	0.52
346	7.98	34.39	0.67	400	(7.15)	(34.34)	(0.66)	(26.90)	(122)	(0.65)
390	7.32	34.34	0.66							
90.37	**HORIZON**; April 8, 1953; 1226 GCT; 33°11'N, 118°24'W; sounding, 700 fm; wind, 310°, force 4; weather, clear; sea, very rough; wire angle, 25°.									
0	14.03	33.40	6.16	0	14.03	33.40	6.16	24.97	300	0.00
10	14.01	33.39	5.67	10	14.01	33.39	5.67	24.96	300	0.03
18	14.02	33.38	6.22	20	14.02	33.38	6.22	24.95	302	0.06
31	12.78	33.41	5.38	30	13.00	33.41	5.60	25.18	280	0.09
49	10.88	33.48	4.15	50	10.85	33.48	4.15	25.64	237	0.14
63	10.40	33.55	3.79	75	9.99	33.72	3.30	25.98	205	0.20
76	9.99	33.72	3.29	100	9.71	33.84	2.90	26.12	192	0.25
93	9.82	33.81	2.77	150	9.22	34.02	2.39	26.34	172	0.34
109	9.61	33.88	2.53	200	8.70	34.14	1.94	26.51	157	0.42
132	9.41	33.95	2.16	250	8.33	34.18	1.58	26.60	149	0.50
172	8.96	34.10	1.81	300	7.90	34.21	1.20	26.69	141	0.58
216	8.56	34.16	1.52							
255	8.28	34.18	0.78							
349	7.40	34.25	1.70r							
90.45	**HORIZON**; April 8, 1953; 1747 GCT; 32°54'N, 118°57'W; sounding, 970 fm; wind, 300°, force 5; weather, partly cloudy; sea, very rough; wire angle, 21°.									
0	13.36	33.38	5.76	0	13.36	33.38	5.76	25.09	289	0.00
9	13.34	33.40	5.86	10	13.34	33.40	5.85	25.11	287	0.03
23	13.33	33.36	5.78	20	13.34	33.37	5.83	25.08	289	0.06
51	10.77	33.48	4.38	30	13.34	33.36	5.60	25.08	290	0.09
74	9.88	33.59	3.63	50	10.80	33.48	4.49	25.65	236	0.14
101	9.68	33.78	2.86	75	9.87	33.59	3.60	25.89	213	0.20
147	9.01	33.98	2.50	100	9.71	33.77	2.90	26.06	198	0.25
193	8.63	34.13	1.99	150	8.99	33.99	2.47	26.35	171	0.34
243	8.07	34.21	1.35	200	8.58	34.14	1.92	26.53	155	0.42
285	7.74	34.27	1.00	250	8.01	34.22	1.30	26.68	141	0.49
381	6.94	34.31	0.56	300	7.62	34.28	0.92	26.79	132	0.56
476	6.40	34.34	0.47	400	6.80	34.32	0.52	26.93	119	0.69
568	5.86	34.37	0.32	500	6.27	34.35	0.42	27.03	111	0.80
755	4.84	34.41	0.43	600	5.67	34.38	0.34	27.13	102	0.91
947	4.11	34.46	0.47	700	5.12	34.40	0.40	27.21	95	1.01
1137	3.84	34.52	0.59	800	4.64	34.42	0.43	27.28	89	1.10
				1000	4.00	34.48	0.49	27.39	78	1.27

a) No apparent reason for high oxygen values; same value obtained from each sample on second titration.

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

HORIZON; April 8, 1953; 2213 GCT; 32°45'N, 119°17'W; sounding, 270 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 33°. 90.50

0	12.37	33.42	6.11	0	12.37	33.42	6.11	25.31	267	0.00
8	12.34	33.39	6.10	10	12.32	33.39	6.10	25.30	268	0.03
17	12.30	33.38	6.14	20	12.29	33.38	6.12	25.30	269	0.05
29	12.24	33.41	6.02	30	12.22	33.41	6.03	25.33	266	0.08
45	12.14	33.41	5.98	50	11.40	33.41	5.92	25.49	251	0.13
57	10.57	33.43	4.52	75	9.50	33.59	3.72	25.96	207	0.19
69	9.66	33.55	3.83	100	9.11	33.76	3.08	26.15	189	0.24
84	9.34	33.64	3.56	150	8.81	34.02	2.32	26.40	166	0.33
100	9.11	33.76	3.08	200	8.40	34.19	1.59	26.60	148	0.41
119	8.89	33.92	2.67	250	8.03	34.26	1.20	26.71	138	0.48
153	8.80	34.04	2.23	300	7.48	34.29	0.83	26.81	129	0.54
190	8.46	34.17	1.66							
221	8.30	34.22	1.42							
292	7.55	34.29	0.88							
362	7.04	34.28	0.55							

HORIZON; April 9, 1953; 0215 GCT; 32°33'N, 119°38'W; sounding, 550 fm; wind, 300°, force 4; weather, clear; sea, rough; wire angle, 35°. 90.55

0	12.14	33.31	6.14	0	12.14	33.31	6.14	25.27	271	0.00
8	12.13	33.33	6.17	10	12.14	33.34	6.18	25.29	269	0.03
16	12.14	33.36	6.22	20	12.13	33.36	6.21	25.31	267	0.05
28	12.12	33.33	6.19	30	12.12	33.33	6.18	25.29	270	0.08
44	12.06	33.38	6.09	50	11.99	33.37	5.92	25.35	265	0.13
55	11.50	33.36	5.50	75	10.20	33.44	4.55	25.72	230	0.20
66	10.66	-	3.45r	100	9.43	33.67	3.43	26.03	200	0.25
82	9.94	33.49	4.25	150	8.57	33.94	1.88	26.38	168	0.34
97	9.51	33.65	3.69	200	8.39	34.19	1.81	26.60	148	0.42
118	9.18	33.75	2.56	250	7.89	34.27	1.10	26.74	136	0.49
155	8.51	33.97	1.85	300	7.58	34.29	0.78	26.80	131	0.56
194	8.44	34.17	1.86	400	6.88	34.32	0.71	26.92	120	0.69
227	8.08	34.25	1.33	500	(6.31)	(34.34)	(0.34)	(27.01)	(112)	(0.80)
306	7.53	34.29	0.76							
393	6.91	34.32	0.72							
490	6.37	34.34	0.38							

HORIZON; April 9, 1953; 0525 GCT; 32°24.5'N, 119°55'W; sounding, 925 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 26°. 90.60

0	12.31	-	6.13	0	12.31	(33.40)	6.13	(25.31)	(267)	(0.00)
9	12.34	33.40	6.13	10	12.34	33.40	6.13	25.30	268	0.03
18	12.34	33.36	6.08	20	12.33	33.36	6.08	25.27	271	0.05
31	12.32	33.40	6.10	30	12.32	33.40	6.10	25.31	268	0.08
49	12.34	33.39	5.97	50	12.33	33.39	5.97	25.30	270	0.13
63	12.29	33.38	5.93	75	10.70	33.31	4.65	25.85	218	0.20
76	10.68	33.31	4.59	100	9.56	33.60	3.80	25.95	208	0.25
96	9.78	33.55	3.91	150	8.62	33.94	2.80	26.37	169	0.34
116	8.96	33.74	3.37	200	8.40	34.19	1.74	26.60	148	0.42
140	8.68	33.86	2.98	250	7.90	34.27	1.29	26.74	136	0.49
185	8.51	34.18	1.98	300	7.55	34.35	1.01	26.85	126	0.56
233	8.02	34.22	1.35	400	6.71	34.39	0.46	27.00	113	0.68
274	7.75	34.32	1.19	500	6.22	34.41	0.31	27.08	106	0.79
370	6.92	34.38	0.52							
465	6.36	34.41	0.35							
566	6.01	34.39	0.30							

	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
90.70	**HORIZON; April 9, 1953; 1054 GCT; 32°09'N, 120°46'W; sounding, 2000 fm; wind, 340°, force 5; weather, partly cloudy; sea, rough; wire angle, 20°.**										
	0	12.93	33.21	6.21	0	12.93	33.21	6.21	25.04	293	0.00
	9	12.92	33.22	5.98	10	12.92	33.23	5.99	25.06	291	0.03
	23	12.94	33.24	6.14	20	12.93	33.24	6.10	25.07	291	0.06
	51	12.92	33.19	6.02	30	12.93	33.24	6.15	25.07	291	0.09
	73	11.95	33.24	5.68	50	12.92	33.19	6.05	25.03	295	0.15
	97	10.01	33.26	5.05	75	11.80	33.25	5.66	25.29	271	0.22
	144	8.79	33.87	3.21	100	9.81	33.26	4.95	25.65	237	0.28
	189	8.27	34.00	2.71	150	8.71	33.89	3.15	26.32	174	0.38
	239	7.81	34.17	2.09	200	8.15	34.04	2.57	26.52	156	0.47
	281	7.75	34.24	1.62	250	7.79	34.19	1.98	26.69	140	0.54
	377	7.08	34.32	0.75	300	7.67	34.26	1.45	26.76	134	0.61
	468	6.31	34.40	0.43	400	6.87	34.34	0.61	26.94	118	0.74
	560	5.76	34.40	0.32	500	6.11	34.40	0.39	27.09	105	0.85
	739	4.75	34.47	0.34	600	5.51	34.41	0.32	27.17	98	0.95
	921	4.18	34.50	0.45	700	4.92	34.46	0.32	27.28	88	1.04
	1114	3.70	-	0.75	800	4.53	34.48	0.38	27.34	83	1.13
					1000	3.99	(34.51)	0.51	(27.42)	(76)	(1.29)
90.80	**HORIZON; April 9, 1953; 1605 GCT; 31°45'N, 121°18.5'W; sounding, 2000 fm; wind, 320°, force 3; weather, cloudy; sea, rough; wire angle, 10°.**										
	0	12.97	33.22	5.97	0	12.97	33.22	5.97	25.04	293	0.00
	10	12.98	33.17	6.04	10	12.98	33.17	6.04	25.00	297	0.03
	20	12.95	33.20	6.18	20	12.95	33.20	6.18	25.03	294	0.06
	34	12.92	33.28	5.96	30	12.94	33.27	6.03	25.09	289	0.09
	53	12.90	33.28	6.00	50	12.91	33.28	6.00	25.10	288	0.15
	67	12.71r	33.26	6.03	75	11.90	33.25	5.70	25.27	273	0.22
	80	11.49	33.24	5.29	100	10.23	33.42	4.10	25.70	232	0.28
	103	9.84	33.45	3.97	150	8.89	33.89	2.86	26.29	177	0.38
	124	9.23	33.64	3.56	200	8.29	33.98	2.53	26.45	162	0.47
	152	8.86	33.90	2.83	250	7.88	34.12	1.95	26.62	147	0.54
	199	8.30	33.98	2.53	300	7.34	34.17	1.42	26.74	136	0.61
	253	7.84	34.13	1.89	400	6.77	34.28	0.80	26.90	122	0.74
	298	7.36	34.17	1.43	500	5.98	34.30	0.28	27.02	111	0.86
	402	6.76	34.28	0.79	600	5.57	34.37	0.42	27.13	102	0.97
	504	5.74	34.30	0.29							
	609	5.54	34.38	0.43							
90.90	**HORIZON; April 9, 1953; 2108 GCT; 31°22'N, 122°05'W; sounding, 2000+ fm; wind, 330°, force 3; weather, partly cloudy; sea, rough; wire angle, 28°.**										
	0	13.62	33.13	5.81	0	13.62	33.13	5.81	24.84	312	0.00
	8	13.22	33.18	5.98	10	13.14	33.18	6.00	24.98	299	0.03
	22	12.92	33.13	6.06	20	12.95	33.13	6.05	24.98	299	0.06
	49	12.85	33.14	6.03	30	12.89	33.13	6.05	24.99	298	0.09
	70	12.88	33.20	6.13	50	12.85	33.14	6.05	25.00	298	0.15
	92	12.12	33.18	5.81	75	12.89	33.20	6.13	25.04	294	0.22
	133	9.67	33.33	4.64	100	11.58	33.18	5.60	25.28	273	0.30
	172	8.73	33.73	3.89	150	9.19	33.52	4.29	25.95	209	0.42
	216	8.04	33.95	3.39	200	8.26	33.90	3.58	26.39	168	0.51
	253	7.48	33.98	2.78	250	7.55	33.98	2.89	26.56	152	0.59
	339	6.20	34.07	1.51	300	6.79	34.03	2.06	26.71	139	0.66
	421	5.58	34.17	0.88	400	5.70	34.15	1.03	26.94	117	0.79
	505	5.31	34.23	0.46	500	5.33	34.23	0.48	27.05	108	0.90
	667	4.84	34.37	0.42	600	5.03	34.32	0.43	27.15	99	1.01
	843	4.35	34.47	0.38	700	4.74	34.39	0.40	27.24	91	1.10
	1030	3.80	34.51	0.63	800	4.48	34.45	0.38	27.32	84	1.19
					1000	3.89	34.51	0.59	27.43	75	1.35

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

HORIZON; April 10, 1953; 0133 GCT; 31°06'N, 122°39'W; sounding, 2000+ fm; wind, 330°, force 3; weather, partly cloudy; sea, rough; wire angle, 12°. 90.100

0	13.63	33.18	5.89	0	13.63	33.18	5.89	24.88	308	0.00
10	13.61	33.21	5.88	10	13.61	33.21	5.88	24.91	306	0.03
19	13.35	33.20	5.95	20	13.34	33.20	5.95	24.95	302	0.06
34	13.32	33.17	5.94	30	13.31	33.18	5.97	24.94	303	0.09
53	13.24	33.15	5.87	50	13.27	33.15	5.88	24.93	305	0.15
67	13.09	33.17	5.93	75	11.89	33.18	5.59	25.22	278	0.22
80	11.47	33.18	5.37	100	10.30	33.22	4.90	25.53	248	0.29
102	10.12	33.22	4.82	150	8.84	33.74	3.74	26.18	187	0.40
123	9.28	33.49	4.27	200	8.31	33.97	2.70	26.44	163	0.49
148	8.89	33.72	3.78	250	7.39	34.06	2.34	26.65	144	0.56
195	8.36	33.95	2.73	300	6.58	34.02	2.07	26.73	137	0.63
247	7.44	34.06	2.36	400	5.75	34.15	1.04	26.93	118	0.76
290	6.69	34.02	2.15	500	5.34	34.28	0.48	27.09	104	0.87
390	5.81	34.14	1.11	600	(5.05)	(34.36)	(0.27)	(27.18)	(96)	(0.97)
491	5.38	34.27	0.50							
595	5.06	34.35	0.28							

HORIZON; April 10, 1953; 0709 GCT; 30°45.5'N, 123°20.5'W; sounding, 2000+ fm; wind, 290°, force 2; weather, clear; sea, slight; wire angle, 08°. 90.110

0	13.95	33.18	6.02	0	13.95	33.18	6.02	24.81	314	0.00
10	13.94	33.22	6.21	10	13.94	33.22	6.21	24.85	312	0.03
25	13.75	33.22	6.05	20	13.83	33.22	6.11	24.87	310	0.06
49	13.65	33.14	6.10	30	13.72	33.22	6.05	24.89	308	0.09
72	13.46	33.18	6.08	50	13.63	33.14	6.10	24.85	312	0.16
95	11.51	33.18	5.62	75	13.44	33.18	6.07	24.92	306	0.23
144	9.30	33.52	4.30	100	11.13	33.18	5.46	25.36	265	0.30
187	8.44	33.89	3.76	150	9.19	33.57	4.25	25.99	205	0.42
230	7.87	34.04	2.65	200	8.22	33.96	3.42	26.45	163	0.51
276	7.44	34.09	1.92	250	7.66	34.07	2.30	26.61	147	0.59
370	6.49	34.20	1.03	300	7.20	34.11	1.69	26.71	139	0.66
458	5.91	34.29	0.62	400	6.27	34.24	0.89	26.94	118	0.79
553	5.32	34.32	0.43	500	5.64	34.31	0.53	27.07	106	0.90
737	4.60	34.49	0.35	600	5.10	34.36	0.40	27.18	97	1.00
921	4.00	34.50	0.53	700	4.72	34.48	0.34	27.32	84	1.09
1112	3.56	34.54	0.71	800	4.39	34.50	0.40	27.37	80	1.18
				1000	3.80	34.52	0.60	27.45	73	1.33

HORIZON; April 10, 1953; 1253 GCT; 30°26'N, 124°05'W; sounding, 2000+ fm; wind, 290°, force 2; weather, clear; sea, slight; wire angle, 03°. 90.120

0	13.66	33.14	0	13.66	33.14		24.84	312	0.00
10	13.66	33.16	10	13.66	33.16		24.86	310	0.03
20	13.66	33.16	20	13.66	33.16		24.86	311	0.06
35	13.54	33.18	30	13.60	33.17		24.88	309	0.09
49	13.50	33.16	50	13.50	33.16		24.89	308	0.16
63	13.01	33.14	75	12.44	33.09		25.04	294	0.23
78	12.37	33.09	100	11.78	33.16		25.22	278	0.30
95	11.91	33.15	150	9.53	33.34		25.76	228	0.43
117	10.81	33.18	200	8.61	33.84		26.29	177	0.53
141	9.72	33.26	250	7.80	33.98		26.52	156	0.61
185	8.86	33.76	300	7.25	34.03		26.64	145	0.69
230	8.04	33.94	400	6.14	34.13		26.87	124	0.82
274	7.54	34.01	500	5.56	34.24		27.03	110	0.94
367	6.46	34.09							
459	5.76	34.20							
559	5.38	34.29							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
90.130	HORIZON; April 10, 1953; 1755 GCT; 30°04'N, 124°39'W; sounding, 2000+ fm; wind, 330°, force 2; weather, partly cloudy; sea, moderate; wire angle, 08°.									
0	14.76	33.38	5.92	0	14.76	33.38	5.92	24.80	316	0.00
10	14.69	33.37	5.92	10	14.69	33.37	5.92	24.80	316	0.03
25	14.67	33.38	5.92	20	14.67	33.38	5.93	24.82	315	0.06
49	14.71	33.38	5.66	30	14.67	33.38	5.90	24.82	315	0.10
73	15.30	33.58	5.69	50	14.73	33.38	5.67	24.80	317	0.16
96	15.38	33.65	5.59	75	15.32	33.60	5.68	24.84	314	0.24
144	12.36	33.55	5.33	100	15.40	33.65	5.57	24.86	312	0.32
188	9.61	33.55	4.27	150	11.91	33.55	5.29	25.50	252	0.46
232	8.53	33.86	3.38	200	9.20	33.57	4.02	25.99	206	0.57
276	7.97	34.02	2.53	250	8.30	33.94	3.02	26.42	166	0.66
369	6.88	34.10	1.53	300	7.65	34.05	2.26	26.60	149	0.74
457	6.17	34.16	0.89	400	6.57	34.12	1.30	26.81	131	0.88
550	5.64	34.31	0.51	500	5.92	34.22	0.70	26.97	116	1.01
734	4.68	34.44	0.34	600	5.36	34.36	0.44	27.15	100	1.11
917	4.13	34.53	0.56	700	4.83	34.42	0.34	27.26	90	1.21
1109	3.61	34.55	0.75	800	4.46	34.48	0.41	27.35	82	1.30
				1000	3.91	34.54	0.63	27.45	73	1.45
90.145	HORIZON; April 11, 1953; 0135 GCT; 29°36'N, 125°40.5'W; sounding, 2000+ fm; wind, 020°, force 3; weather, cloudy; sea, moderate; wire angle, 08°.									
0	16.06	33.68	5.69	0	16.06	33.68	5.69	24.74	321	0.00
10	15.95	33.70	5.63	10	15.95	33.70	5.63	24.78	318	0.03
20	15.72	33.70	5.70	20	15.72	33.70	5.70	24.83	313	0.06
34	15.65	33.69	5.80	30	15.66	33.69	5.79	24.84	313	0.10
48	15.66	33.72	5.71	50	15.64	33.72	5.71	24.86	311	0.16
63	15.66	33.73	5.68	75	15.72	33.73	5.63	24.85	313	0.24
75	15.72	33.73	5.63	100	15.90	33.85	5.68	24.91	308	0.31
92	15.91	33.84	5.68	150	12.86	33.67	5.30	25.41	261	0.46
115	15.62	33.85	5.61	200	9.38	33.48	4.12	25.89	216	0.58
141	13.64	33.75	5.39	250	8.40	33.91	3.20	26.38	170	0.67
184	9.90	33.46	4.56	300	7.68	34.00	2.60	26.56	154	0.75
227	8.81	33.80	3.52	400	6.56	34.15	1.48	26.83	128	0.89
271	8.08	33.96	2.92	500	5.84	34.25	0.78	27.00	113	1.01
363	6.92	34.08	1.88							
454	6.12	34.22	0.95							
554	5.56	34.27	0.63							
90.160	HORIZON; April 11, 1953; 0853 GCT; 29°07'N, 126°42'W; sounding, 2000+ fm; wind, 045°, force 2; weather, partly cloudy; sea, moderate; wire angle, 12°.									
0	16.88	34.14	5.49	0	16.88	34.14	5.49	24.90	306	0.00
10	16.85	34.16	5.49	10	16.85	34.16	5.49	24.92	304	0.03
24	16.76	34.13	5.31	20	16.79	34.13	5.38	24.92	305	0.06
53	16.77	34.16	5.44	30	16.75	34.13	5.32	24.93	305	0.09
77	16.79	34.14	5.47	50	16.76	34.16	5.41	24.95	303	0.15
104	16.78	34.14	5.44	75	16.79	34.14	5.47	24.92	306	0.23
152	15.28	34.11	5.15	100	16.80	34.14	5.45	24.92	307	0.30
199	11.34	33.88	4.72	150	15.42	34.12	5.16	25.22	280	0.45
251	9.72	33.96	4.52	200	11.30	33.88	4.71	25.87	218	0.58
296	8.26	33.99	3.85	250	9.80	33.96	4.54	26.19	188	0.68
396	6.86	34.05	2.05	300	8.18	33.99	3.75	26.48	162	0.77
493	5.77	34.13	2.02	400	6.80	34.05	2.05	26.72	139	0.92
591	5.16	34.26	0.53	500	5.72	34.14	1.97	26.93	120	1.04
780	4.40	34.42	0.36	600	5.11	34.27	0.52	27.11	103	1.16
972	3.87	34.54	0.69	700	4.69	34.36	0.40	27.23	93	1.26
1164	3.39	34.54	0.90	800	4.33	34.44	0.40	27.33	83	1.34
				1000	3.80	34.54	0.72	27.46	71	1.50

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
CREST; April 8, 1953; 0032 GCT; 32°56'N, 117°19'W; sounding, 165 fm; wind, 250°, force 4; weather, cloudy; sea, moderate; wire angle, 05°.										93.27
0	14.53	33.45	6.27	0	14.53	33.45	6.27	24.90	306	0.00
10	13.52	33.60	6.44	10	13.52	33.60	6.44	25.22	276	0.03
25	11.26	33.59	4.17	20	11.90	33.59	5.50	25.53	247	0.06
50	9.95	-	2.70	30	10.81		3.70			
74	9.72	-	2.42	50	9.95		2.70			
98	9.60	-	2.64	75	9.71		2.44			
150	9.40	-	1.73	100	9.58		2.64			
198	9.40	34.36	1.12	150	9.40		1.73			
245	9.13	-	1.08	200	9.38		1.12			
				250	(9.09)		(1.07)			
CREST; April 8, 1953; 0239 GCT; 32°50'N, 117°31.5'W; sounding, 500 fm; wind, 270°, force 5; weather, partly cloudy; sea, moderate; wire angle, 18°.										93.30
0	14.25	33.43	6.16	0	14.25	33.43	6.16	24.94	302	0.00
10	13.96	33.41	6.21	10	13.96	33.41	6.21	24.99	298	0.03
19	12.90	33.47	5.97	20	12.89	33.47	5.89	25.25	273	0.06
33	11.87	33.45	5.35	30	12.11	33.46	5.49	25.40	260	0.09
47	10.70	33.44	3.71	50	10.51	33.44	3.55	25.67	234	0.13
62	10.12	-	3.37	75	9.75	33.64	3.29	25.96	208	0.19
75	9.75	-	3.29	100	9.69	33.89	2.47	26.16	189	0.24
94	9.67	33.84	2.59	150	9.39	34.14	1.87	26.40	167	0.33
118	9.75	34.01	2.31	200	9.21	(34.21)	1.66	(26.50)	(160)	(0.41)
146	9.42	34.13	1.92	250	8.96		1.25			
192	-	34.20	1.70	300	8.60		0.89			
239	9.03	-	1.39	400	7.79		0.72			
285	8.70	34.45	0.93	500	6.76		0.52			
383	7.96	34.34	0.74							
477	6.98	-	0.55							
578	6.10	-	0.40							
CREST; April 8, 1953; 0823 GCT; 32°30'N, 118°12.5'W; sounding, 1000 fm; wind, 300°, force 5; weather, clear; sea, very rough; wire angle, 29°.										93.40
0	15.65r	-	5.67	0	(14.62)	(33.46)	5.67	(24.89)	(307)	(0.00)
8	14.61	33.46	5.75	10	14.61	33.47	5.74	24.90	307	0.03
17	14.60	33.51	5.70	20	14.59	33.51	5.71	24.93	303	0.06
30	14.57	33.46	5.73	30	14.57	33.46	5.73	24.90	307	0.09
48	12.24	33.36	4.99	50	11.15	33.36	4.81	25.49	251	0.15
61	10.49	33.45	4.15	75	10.06	33.56	3.65	25.84	218	0.21
74	10.08	33.56	3.69	100	9.65	33.86	3.12	26.14	190	0.26
96	9.68	33.83	3.27	150	9.20	34.13	2.25	26.43	164	0.35
118	9.58	33.96	2.70	200	8.61	34.26	1.99	26.62	146	0.42
144	9.28	34.10	2.30	250	8.06	34.29	1.48	26.73	137	0.49
193	8.70	34.26	2.03	300	7.64	34.35	1.00	26.84	127	0.56
242	8.12	34.28	1.54	400	6.89	34.40	0.52	26.98	114	0.68
285	7.76	34.34	1.13	500	6.22	34.48	0.34	27.14	101	0.79
385	6.98	34.39	0.56	600	(5.60)	(34.49)	(0.33)	(27.22)	(93)	(0.89)
486	6.30	34.48	0.37							
596	5.62	34.49	0.32							

	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
93.50	CREST; April 8, 1953; 1447 GCT; 32°07.5'N, 118°59'W; sounding, 800 fm; wind, 320°, force 3; weather, cloudy; sea, rough; wire angle, 14°.										
	0	13.05	33.37	6.09	0	13.05	33.37	6.09	25.14	283	0.00
	10	13.08	33.35	5.93	10	13.08	33.35	5.93	25.12	285	0.03
	19	13.07	33.31	5.48	20	13.07	33.31	5.47	25.09	288	0.06
	34	13.07	33.32	5.82	30	13.07	33.32	5.79	25.10	288	0.09
	53	12.02	33.32	5.58	50	12.18	33.32	5.61	25.27	272	0.14
	67	11.34	33.32	5.37	75	10.80	33.31	4.84	25.52	249	0.21
	82	10.30	33.31	4.63	100	9.63	33.46	4.28	25.83	219	0.27
	107	9.46	33.53	4.26	150	8.74	33.83	3.45	26.26	179	0.36
	130	9.06	33.71	5.09	200	8.24	34.17	2.22	26.61	147	0.45
	158	8.65	33.89	3.00	250	8.11	34.23	1.69	26.67	142	0.52
	207	8.21	34.19	2.14	300	7.79	34.34	1.02	26.81	130	0.59
	262	8.08	34.24	1.54	400	6.91	34.34	0.82	26.93	119	0.71
	309	7.69	34.36	0.96	500	6.21	34.42	0.45	27.09	105	0.82
	415	6.80	34.34	0.79	600	5.64	34.46	0.38	27.19	96	0.92
	518	6.10	34.43	0.40							
	623	5.52	34.46	0.38							
93.60	CREST; April 8, 1953; 2006 GCT; 31°50'N, 119°34'W; sounding, 1400 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 10°.										
	0	13.50	33.30	5.87	0	13.50	33.30	5.87	25.00	297	0.00
	10	13.46	33.22	5.98	10	13.46	33.22	5.98	24.94	302	0.03
	20	13.40	33.27	6.16	20	13.40	33.27	6.16	24.99	298	0.06
	34	13.40	33.28	5.78	30	13.40	33.28	5.83	25.00	297	0.09
	53	12.84	33.25	5.78	50	13.32	33.25	5.79	25.00	298	0.15
	67	11.98	33.27	5.53	75	11.78	33.27	5.58	25.31	269	0.22
	82	11.60	33.28	5.62	100	10.50	33.31	5.11	25.57	244	0.28
	105	9.97	33.33	4.61	150	8.75	33.76	3.48	26.21	184	0.39
	128	9.09	33.61	3.76	200	8.09	34.00	2.70	26.50	158	0.48
	156	8.68	33.80	3.41	250	7.54	34.12	1.98	26.67	142	0.55
	206	9.83r	34.02	2.59	300	7.29	34.22	1.49	26.79	132	0.62
	260	7.48	34.14	1.86	400	6.62	34.30	0.69	26.94	118	0.75
	306	7.26	34.23	1.44	500	6.03	34.37	0.40	27.07	106	0.86
	412	6.54	34.31	0.63	600	5.55	34.40	0.28	27.16	99	0.96
	516	5.95	34.38	0.38							
	623	5.44	34.41	0.27							
93.70	CREST; April 9, 1953; 0200 GCT; 31°33'N, 120°21'W; sounding, 1850 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 17°.										
	0	13.38	33.32	5.98	0	13.38	33.32	5.98	25.04	293	0.00
	9	13.37	33.32	5.76	10	13.36	33.22	5.74	25.04	293	0.03
	19	13.32	33.29	5.73	20	13.31	33.29	5.77	25.03	294	0.06
	33	13.20	33.36	6.00	30	13.21	33.35	5.96	25.09	288	0.09
	52	13.24	33.37	6.04	50	13.23	33.37	6.06	25.11	288	0.14
	67	11.57	33.27	5.62	75	11.30	33.32	5.54	25.44	257	0.21
	81	11.14	33.35	5.48	100	9.98	33.41	4.10	25.74	229	0.27
	105	9.76	33.44	4.01	150	9.10	33.91	2.96	26.27	179	0.38
	128	9.37	33.60	4.27	200	8.28	34.00	2.68	26.47	160	0.46
	155	9.04	33.93	2.87	250	7.64	34.09	2.10	26.63	146	0.54
	205	8.20	34.01	2.65	300	7.17	34.21	1.48	26.79	131	0.61
	260	7.55	34.11	1.94	400	6.54	34.31	0.67	26.96	116	0.73
	306	7.11	34.22	1.41	500	6.08	34.35	0.45	27.05	109	0.84
	411	6.49	34.32	0.61	600	5.53	34.40	0.38	27.16	99	0.95
	516	6.01	34.36	0.44							
	621	5.40	34.41	0.35							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

CREST; April 9, 1953; 0654, 0717 GCT; 31°13'N, 120°56'W; sounding, 2000+ fm; wind, 350°, force 4; weather, clear; sea, rough; wire angle, 10°, 14°. 93.80

0	13.87	33.15	5.75	0	13.87	33.15	5.75	24.81	315	0.00
10	13.85	33.14	5.78	10	13.85	33.14	5.78	24.80	316	0.03
19	13.84	33.12	5.76	20	13.83	33.12	5.75	24.79	317	0.06
34	13.83	33.12	5.84	30	13.83	33.12	5.82	24.79	317	0.10
54	13.84	33.12	5.78	50	13.84	33.12	5.80	24.79	318	0.16
68	13.78	33.12	5.74	75	13.73	33.07	5.69	24.77	320	0.24
83	12.47	33.06	5.65	100	11.24	33.10	5.40	25.28	273	0.31
107	10.88	33.12	5.24	150	8.97	33.56	4.12	26.02	203	0.43
132	9.63	33.19	4.68	200	8.35	33.96	3.27	26.43	165	0.52
160	8.78	33.73	3.87	250	7.44	33.99	2.87	26.58	150	0.60
				300	6.75	34.03	2.12	26.71	138	0.67
208	8.26	33.97	3.20	400	6.12	34.19	0.84	26.92	120	0.80
263	7.23	34.00	2.72	500	5.55	34.28	0.47	27.06	107	0.92
310	6.66	34.05	1.86	600	5.04	34.39	0.37	27.21	94	1.02
416	6.04	34.21	0.77							
520	5.44	34.29	0.44							
625	4.96	34.42	0.36							

CREST; April 9, 1953; 1218 GCT; 30°55.5'N, 121°32.5'W; sounding, 2000+ fm; wind, 350°, force 4; weather, partly cloudy; sea, moderate; wire angle, 10°. 93.90

0	13.88	33.19	5.78	0	13.88	33.19	5.78	24.83	312	0.00
10	13.88	33.16	5.81	10	13.88	33.16	5.81	24.81	315	0.03
20	13.86	33.19	5.86	20	13.86	33.19	5.86	24.84	312	0.06
35	13.86	33.39r	5.79	30	13.85	33.19	5.80	24.84	312	0.09
54	13.90	33.16	5.78	50	13.90	33.17	5.75	24.82	316	0.16
68	13.87	33.15	5.82	75	13.84	33.17	5.84	24.83	315	0.24
83	13.78	33.19	5.80	100	11.40	33.14	5.28	25.28	272	0.31
108	10.66	33.13	5.05	150	9.18	33.60	4.16	26.02	203	0.43
132	9.77	33.38	4.70	200	7.93	33.94	3.20	26.47	160	0.52
160	8.85	33.69	3.84	250	7.74	34.08	2.31	26.61	148	0.60
214	7.84	34.00	3.01	300	7.12	34.04	2.20	26.67	143	0.67
270	7.59	34.09	2.12	400	5.95	34.12	1.07	26.89	123	0.80
316	6.80	34.01	2.24	500	5.34	34.25	0.56	27.06	106	0.92
424	5.78	34.16	0.91	600	4.94	34.36	0.37	27.20	95	1.02
530	5.20	34.29	0.49							
636	4.82	34.39	0.37							

CREST; April 9, 1953; 1338, 1421 GCT; 30°55.5'N, 121°32.5'W; sounding, 2000+ fm; wind, 350°, force 4; weather, partly cloudy; sea, moderate; wire angle 10°, 11°. 93.90

0	13.89	0	13.89
10	13.85	10	13.85
24	13.90	20	13.90
49	13.89	30	13.90
98	11.57	50	13.89
152	8.99	75	13.80
201	8.22	100	11.32
300	7.03	150	9.03
394	6.04	200	8.23
		250	7.77
486	5.38	300	7.03
582	5.09	400	5.98
768	4.46	500	5.32
952	3.92	600	5.05
1145	3.44	700	4.72
1462	2.79	800	4.35
		1000	3.79
		1200	3.29

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
97.30	CREST; April 11, 1953; 0440 GCT; 32°16'N, 117°09'W; sounding, 33 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 10°.									
0	13.67	33.36	6.34	0	13.67	33.36	6.34	25.01	296	0.00
10	13.70	33.43	6.56	10	13.70	33.43	6.56	25.06	292	0.03
20	12.81	33.38	5.70	20	12.81	33.38	5.70	25.20	278	0.06
30	11.37	33.36	4.58	30	11.37	33.36	4.58	25.45	254	0.08
49	10.40	33.60	3.57	50	(10.39)	(33.61)	(3.50)	(25.82)	(220)	(0.13)
97.35	CREST; April 11, 1953; 0135 GCT; 32°05.5'N, 117°29'W; sounding, 550 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 35°.									
0	14.55	-	6.22	0	14.55	(33.37)	6.22	(24.83)	(313)	(0.00)
8	14.56	33.37	6.22	10	14.57	33.37	6.22	24.83	313	0.03
15	14.56	33.37	5.92	20	14.55	33.37	5.85	24.83	313	0.06
28	14.49	33.37	5.81	30	14.47	33.37	5.82	24.85	312	0.09
44	13.80	33.34	5.84	50	12.72	33.26	5.80	25.12	286	0.15
56	11.90	33.22	5.32	75	10.62	33.37	4.38	25.59	242	0.22
69	10.92	33.29	4.67	100	9.54	33.57	3.87	25.93	210	0.28
88	10.15	33.53	4.11	150	9.00	33.98	2.85	26.34	172	0.37
106	9.38	33.59	3.77	200	8.47	34.09	2.00	26.51	157	0.45
125	9.13	33.81	3.15	250	8.06	34.29	1.55	26.73	137	0.53
163	8.91	34.02	2.70	300	7.67	34.32	1.22	26.81	130	0.59
203	8.43	34.10	2.06	400	7.00	34.31	0.66	26.90	123	0.72
237	8.18	34.26	1.67	500	(6.34)	(34.40)	(0.40)	(27.06)	(108)	(0.84)
317	7.54	34.32	1.11							
404	6.96	34.31	0.66							
498	6.34	34.40	0.40							
97.40	CREST; April 10, 1953; 2232 GCT; 31°55'N, 117°50'W; sounding, 780 fm; wind, 310°, force 6; weather, partly cloudy; sea, rough; wire angle, 25°.									
0	14.47	33.42	5.81	0	14.47	33.42	5.81	24.89	307	0.00
8	14.48	33.40	6.18	10	14.48	33.40	6.17	24.87	309	0.03
17	14.48	33.40	6.04	20	14.47	33.41	6.04	24.88	308	0.06
31	14.44	33.42	6.09	30	14.45	33.42	6.08	24.89	308	0.09
49	13.94	33.37	5.77	50	13.72	33.37	5.73	25.01	297	0.15
63	12.06	33.27	5.49	75	10.66	33.35	4.74	25.57	244	0.22
75	10.79	33.35	4.81	100	9.98	33.49	4.25	25.80	223	0.28
97	10.07	33.47	4.36	150	8.86	33.88	3.67	26.28	177	0.38
118	9.39	33.62	3.88	200	8.84	34.12	2.30	26.48	160	0.46
143	8.88	33.82	3.77	250	8.04	34.21	1.77	26.67	142	0.54
187	8.95	34.08	2.53	300	7.82	34.27	1.32	26.75	136	0.60
235	8.13	34.19	1.92	400	6.98	34.30	0.70	26.89	123	0.74
276	7.93	34.25	1.52	500	6.13	34.36	0.43	27.05	108	0.85
373	7.26	34.29	0.85							
471	6.32	34.34	0.46							
573	5.70	34.40	0.35							
97.50	CREST; April 10, 1953; 1645 GCT; 31°27'N, 118°26'W; sounding, 1480 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 20°.									
0	14.17	33.49	5.81	0	14.17	33.49	5.81	25.01	296	0.00
9	14.20	33.45	5.75	10	14.21	33.45	5.75	24.97	300	0.03
19	14.20	33.45	5.78	20	14.21	33.45	5.78	24.97	300	0.06
33	13.76	33.44	5.67	30	14.14	33.45	5.69	24.98	299	0.09
52	11.14	33.36	4.67	50	11.30	33.36	4.71	25.47	253	0.14
66	10.50	33.44	4.19	75	10.14	33.53	3.90	25.80	222	0.20
79	10.04	33.55	3.82	100	9.75	33.80	3.16	26.08	196	0.26
102	9.72	33.81	3.12	150	9.16	34.00	2.69	26.33	173	0.35
125	9.37	33.93	2.79	200	8.65	34.19	2.05	26.56	152	0.43
152	9.15	34.01	2.69	250	8.24	34.23	1.60	26.65	144	0.50
203	8.61	34.19	2.00	300	7.78	34.27	1.25	26.75	135	0.57
258	8.18	34.24	1.55	400	6.87	34.31	0.67	26.91	121	0.70
304	7.74	34.27	1.23	500	6.18	34.38	0.42	27.06	108	0.82
408	6.80	34.31	0.65	600	5.58	34.46	0.33	27.20	95	0.92
510	6.12	34.39	0.41							
613	5.52	34.47	0.32							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

CREST; April 10, 1953; 1045 GCT; 31°09'N, 119°07'W; sounding, 2000+ fm; wind, 330°, force 5; weather, clear; sea, very rough; wire angle, 22°. 97.60

0	13.51	33.45	5.75	0	13.51	33.45	5.75	25.11	286	0.00
9	13.50	33.48	5.74	10	13.50	33.49	5.74	25.14	283	0.03
18	13.50	33.55	5.72	20	13.50	33.55	5.73	25.19	279	0.06
32	13.50	33.45	5.76	30	13.50	33.49	5.76	25.14	284	0.08
49	13.54	33.33	5.70	50	13.54	33.33	5.66	25.01	297	0.14
62	12.60	33.33	5.12	75	10.61	33.50	3.70	25.70	232	0.21
76	10.60	33.51	3.71	100	9.94	33.66	3.13	25.94	210	0.26
96	10.04	33.63	3.23	150	9.34	34.03	2.44	26.32	174	0.36
118	9.66	33.86	2.83	200	8.52	34.17	2.08	26.56	152	0.44
144	9.42	34.00	2.48	250	8.22	34.21	1.68	26.64	145	0.52
191	8.61	34.16	2.14	300	7.83	34.25	1.30	26.73	137	0.59
243	8.24	34.21	1.74	400	6.83	34.36	0.56	26.96	116	0.71
288	7.94	34.24	1.39	500	6.11	34.35	0.37	27.05	109	0.83
392	6.89	34.36	0.59	600	(5.45)	(34.39)	(0.28)	(27.16)	(99)	(0.93)
494	6.14	34.35	0.38							
599	5.45	34.39	0.29							

CREST; April 10, 1953; 0513 GCT; 30°55'N, 119°51'W; sounding, 2000+ fm; wind, 340°, force 4; weather, clear; sea, rough; wire angle, 25°. 97.70

0	13.84	33.28	5.19r	0	13.84	33.28	(6.23)	24.91	305	0.00
8	13.80	33.29	6.23	10	13.79	33.29	6.20	24.93	303	0.03
17	13.78	33.19	6.01	20	13.77	33.19	6.05	24.86	311	0.06
31	13.74	33.27	6.35	30	13.76	33.27	6.33	24.92	305	0.09
44	13.56	33.27	6.52	50	13.48	33.27	6.36	24.98	300	0.15
57	13.43	33.33	6.01	75	13.39	33.23	5.87	24.97	302	0.23
69	13.40	33.82r	6.99r	100	11.80	33.21	5.66	25.26	274	0.30
85	12.58	33.19	5.81	150	9.00	33.57	4.60	26.02	202	0.42
105	11.62	33.22	5.61	200	8.41	33.94	2.94	26.40	167	0.51
128	10.18	33.36	5.20	250	7.88	34.06	2.53	26.57	151	0.59
166	8.65	33.72	3.99	300	7.40	34.07	1.82	26.65	144	0.66
205	8.37	33.97	2.87	400	6.65	34.22	0.94	26.87	124	0.80
245	7.94	34.06	2.58	500	6.04	34.37	0.45	27.07	107	0.92
332	7.15	34.07	1.39							
418	6.54	34.26	0.85							
513	5.98	34.38	0.38							

CREST; April 10, 1953; 0003 GCT; 30°37'N, 120°28'W; sounding, 2000+ fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle 17°. 97.80

0	14.30	33.32	6.23	0	14.30	33.32	6.23	24.85	311	0.00
9	14.28	33.30	6.07	10	14.27	33.30	6.07	24.84	312	0.03
18	14.17	33.29	6.10	20	14.16	33.29	6.14	24.85	311	0.06
32	14.13	33.31	6.19	30	14.13	33.31	6.18	24.88	309	0.09
45	14.14	33.33	5.79	50	14.13	33.33	5.85	24.89	308	0.16
58	14.11	33.32	6.52	75	14.09	33.26	5.99	24.85	313	0.23
70	14.10	33.25	5.98	100	13.50	33.27	6.33	24.97	302	0.31
85	14.06	33.27	6.07	150	9.73	33.35	5.50	25.73	230	0.44
104	13.29	33.27	6.34	200	8.77	33.79	3.92	26.23	183	0.55
124	11.83	33.27	6.17	250	7.98	34.00	2.51	26.51	157	0.63
157	9.52	33.42	5.31	300	7.51	34.13	2.00	26.68	142	0.71
193	8.90	33.74	4.16	400	6.51	34.21	1.12	26.88	123	0.84
229	8.20	33.93	2.89	500	(5.82)	(34.25)	(0.51)	(27.00)	(113)	(0.96)
309	7.43	34.14	1.92							
390	6.60	34.20	1.18							
480	5.95	34.24	0.60							

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OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
97.90	CREST; April 9, 1953; 1923 GCT; 30°22'N, 121°08.5'W; sounding, 2000+ fm; wind, 340°, force 4; weather, partly cloudy; sea, moderate; wire angle, 10°.									
0	14.54	33.37	6.46	0	14.54	33.37	6.46	24.84	312	0.00
10	14.56	33.41	6.16	10	14.56	33.41	6.16	24.86	310	0.03
20	14.55	33.40	5.86	20	14.55	33.40	5.86	24.86	311	0.06
34	14.54	34.03r	5.70	30	14.54	33.39	5.71	24.85	312	0.09
49	14.56	33.37	5.82	50	14.55	33.37	5.83	24.83	314	0.16
63	14.53	33.37	6.32	75	14.54	33.39	6.23	24.85	313	0.23
77	14.54	33.39	6.23	100	14.52	33.39	6.36	24.86	313	0.31
97	14.52	33.39	6.37	150	11.00	33.44	5.62	25.58	244	0.45
120	13.33	33.37	5.92	200	8.70	33.74	4.71	26.20	186	0.56
148	11.20	33.43	5.65	250	8.15	33.97	3.15	26.46	162	0.65
194	8.85	33.70	4.89	300	7.49	34.09	2.63	26.65	144	0.72
241	8.28	33.94	3.27	400	6.43	34.17	1.31	26.86	125	0.86
289	7.62	34.08	2.76	500	5.67	34.29	0.64	27.05	108	0.97
388	6.53	34.16	1.42	600	(5.10)	(34.32)		(27.15)	(100)	(1.08)
484	5.77	34.28	0.71							
587	5.16	34.32	0.43							
100.29	CREST; April 11, 1953; 0854 GCT; 31°42'N, 116°43.5'W; sounding, 60 fm; wind, 070°, force 3; weather, clear; sea, moderate; wire angle, 07°.									
0	12.07	33.68	4.99	0	12.07	33.68	4.99	25.57	242	0.00
10	10.35	33.79	2.84	10	10.35	33.79	2.84	25.97	205	0.02
20	9.89	33.91	2.51	20	9.89	33.91	2.51	26.14	189	0.04
30	9.87	33.96	2.27	30	9.87	33.96	2.27	26.18	185	0.06
50	9.84	34.09	1.93	50	9.84	34.09	1.93	26.29	175	0.10
74	9.74	34.22	1.70	75	(9.73)	(34.22)	(1.69)	(26.41)	(164)	(0.14)
100.30	CREST; April 11, 1953; 0950 GCT; 31°40.5'N, 116°47'W; sounding, 210 fm; wind, 070°, force 2; weather, clear; sea, moderate; wire angle, 15°.									
0	12.39	33.55	5.85	0	12.39	33.55	5.85	25.41	258	0.00
9	12.12	33.59	4.81	10	12.10	33.60	4.66	25.50	249	0.02
24	9.97	33.82	2.63	20	10.01	33.75	2.97	26.00	202	0.05
48	9.91	33.98	2.14	30	9.92	33.87	2.41	26.10	192	0.07
71	9.80	34.08	2.05	50	9.90	33.99	2.12	26.20	184	0.10
94	9.85	34.17	1.71	75	9.80	34.10	2.00	26.30	174	0.15
144	9.66	34.29	1.22	100	9.85	34.19	1.64	26.37	169	0.19
191	9.22	34.34	1.17	150	9.63	34.30	1.22	26.49	158	0.28
238	8.92	34.36	0.89	200	9.17	34.35	1.12	26.60	148	0.35
285	8.56	34.41	0.67	250	8.84	34.37	0.82	26.67	143	0.42
100.40	CREST; April 11, 1953; 1600 GCT; 31°20'N, 117°29'W; sounding, 1030 fm; wind, 320°, force 4; weather, partly cloudy; sea, rough; wire angle, 20°.									
0	14.26	33.28	5.21	0	14.26	33.28	5.21	24.83	313	0.00
9	14.30	33.32	5.23	10	14.30	33.32	5.25	24.85	311	0.03
23	14.28	33.29	5.53	20	14.28	33.30	5.53	24.84	313	0.06
51	14.28	33.24	5.35	30	14.27	33.28	5.53	24.82	314	0.09
74	12.70	33.16	5.45	50	14.27	33.24	5.35	24.79	318	0.16
103	11.22	33.29	4.93	75	12.60	33.16	5.44	25.07	292	0.23
153	9.07	33.75	2.95	100	11.40	33.26	5.03	25.37	264	0.30
203	8.19	-	2.67	150	9.14	33.73	2.97	26.12	193	0.42
256	8.07	34.14	1.74	200	8.22	34.00	2.70	26.48	160	0.50
300	7.38	34.13	1.47	250	8.08	34.13	1.80	26.60	149	0.58
400	6.97	34.29	0.52	300	7.38	34.13	1.47	26.70	140	0.65
495	6.15	34.31	0.36	400	6.97	34.29	0.52	26.89	124	0.79
591	5.57	34.35	0.31	500	6.10	34.31	0.34	27.02	112	0.90
782	4.74	34.48	0.34	600	5.53	34.35	0.32	27.12	103	1.01
974	4.04	34.57	0.54	700	5.07	34.43	0.33	27.24	92	1.11
1163	3.50	34.60	0.67	800	4.66	34.49	0.37	27.33	84	1.20
				1000	3.96	34.58	0.58	27.48	70	1.35

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

CREST; April 11, 1953; 2144 GCT; 31°02'N, 118°07'W; sounding, 950 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 22°. 100.50

0	14.06	33.32	5.49	0	14.06	33.32	5.49	24.90	306	0.00
9	14.06	-	5.35	10	14.06	33.35	5.35	24.92	304	0.03
18	13.90	33.37	5.55	20	13.89	33.37	5.78	24.97	300	0.06
32	13.83	33.37	5.82	30	13.83	33.37	5.83	24.98	299	0.09
51	13.06	33.28	5.10	50	13.28	33.28	5.18	25.03	295	0.15
65	11.15	33.30	4.38	75	10.30	33.34	3.88	25.63	238	0.22
78	10.20	-	3.86	100	9.62	33.45	3.71	25.83	220	0.27
100	9.62	33.45	3.71	150	8.92	33.56	2.70	26.03	202	0.38
123	9.22	33.38	3.68	200	8.35	34.00	2.63	26.46	162	0.47
149	8.92	-	2.70	250	7.98	34.19	1.59	26.66	143	0.55
198	8.37	33.99	2.63	300	(7.85)	(34.26)	(1.22)	(26.74)	(137)	(0.62)
251	7.98	34.19	1.58							
296	7.86	34.26	1.24							

CREST; April 12, 1953; 0342 GCT; 30°42.5'N, 118°48'W; sounding, 1550 fm; wind, 340°, force 5; weather, clear; sea, rough; wire angle, 40°. 100.60

0	13.59	33.32	5.36	0	13.59	33.32	5.36	24.99	297	0.00
7	13.62	-	5.76	10	13.62	33.29	5.73	24.97	300	0.03
19	13.60	33.29	5.58	20	13.60	33.29	5.57	24.97	300	0.06
41	13.56	33.33	5.97	30	13.58	33.31	5.77	24.99	298	0.09
60	12.04	33.13	5.55	50	13.50	33.25	5.87	24.96	302	0.15
84	10.91	33.28	4.81	75	11.36	33.20	5.05	25.33	267	0.22
125	9.33	33.51	3.76	100	10.10	33.37	4.34	25.68	234	0.28
168	8.90	33.84	3.04	150	9.05	33.70	3.33	26.11	194	0.39
214	8.50	34.05	2.22	200	8.63	34.01	2.48	26.42	165	0.48
252	8.04	34.09	1.63	250	8.08	34.09	1.66	26.57	152	0.56
336	6.91	-	0.96	300	7.34	34.16	1.25	26.73	137	0.63
415	6.47	34.31	0.56	400	6.55	34.30	0.60	26.95	117	0.76
494	5.82	34.33	0.39	500	5.78	34.33	0.38	27.07	106	0.87
656	5.09	34.36	0.30	600	5.33	34.35	0.30	27.14	100	0.97
831	4.44	34.46	0.43	700	4.93	34.38	0.32	27.21	94	1.07
1012	3.86	34.49	0.62	800	4.55	34.44	0.40	27.30	86	1.16
				1000	3.90	34.49	0.61	27.41	76	1.32

CREST; April 12, 1953; 0921 GCT; 30°22'N, 119°28'W; sounding, 2000+ fm; wind, 340°, force 4; weather, clear; sea, rough; wire angle, 11°. 100.70

0	14.53	33.38	6.81[a]	0	14.53	33.38		24.85	311	0.00
9	14.57	33.36	6.23	10	14.57	33.36		24.82	314	0.03
19	14.54	33.33	7.37	20	14.54	33.33		24.80	316	0.06
34	14.53	33.30	6.19	30	14.54	33.31		24.79	318	0.09
53	14.22	33.35	6.17	50	14.30	33.34		24.86	311	0.16
68	13.97	33.25	4.84	75	13.35	33.23		24.97	301	0.23
83	12.60	33.22	6.36	100	11.82	33.23		25.27	273	0.31
125p	10.71	33.28	6.06	150	9.70	33.40		25.77	226	0.43
165p	9.33	33.51	3.49	200	8.78	33.88		26.30	177	0.53
199p	8.80	33.87	3.44	250	8.22	34.07		26.53	155	0.61
283p	7.98	34.16	1.75	300	7.86	34.19		26.68	142	0.69
367p	7.30	34.28	0.88	400	6.94	34.28		26.88	124	0.82
453p	6.36	34.28	0.53	500	(5.85)	(34.28)		(27.02)	(111)	(0.94)

a) Oxygen values appear erratic; no interpolations made.

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
100.80 CREST; April 12, 1953; 1442 GCT; 30°~~20~~ 02'N, 120°08'W; sounding, 2000+ fm; wind, 350°, force 4; weather, partly cloudy; sea, rough; wire angle, 15°.										
0	14.88	33.45	5.32	0	14.88	33.45	5.32	24.82	313	0.00
9	14.90	33.49	5.14	10	14.90	33.49	5.15	24.85	311	0.03
23	14.90	33.48	5.31	20	14.90	33.48	5.28	24.84	312	0.06
53	14.91	33.48	5.28	30	14.91	33.48	5.32	24.84	313	0.09
77	14.58	33.41	5.39	50	14.92	33.48	5.28	24.84	313	0.16
105	12.37	33.32	5.11	75	14.60	33.42	5.39	24.86	312	0.23
158	9.42	33.57	3.64	100	13.50	33.33	5.19	25.02	297	0.31
210	8.51	33.91	2.81	150	9.59	33.50	3.80	25.87	217	0.44
267	7.78	34.08	2.30	200	8.69	33.86	2.93	26.30	177	0.54
313	7.08	34.19	1.94	250	7.97	34.02	2.43	26.53	155	0.62
419	5.98	34.17	1.03	300	7.27	34.17	2.04	26.75	135	0.69
519	5.80	34.30	0.53	400	6.12	34.17	1.15	26.90	121	0.82
621	5.34	34.37	0.30	500	5.87	34.27	0.60	27.01	112	0.94
820	4.52	34.53	0.40	600	5.46	34.36	0.32	27.14	101	1.04
1023	3.83	34.56	0.69	700	5.00	34.43	0.32	27.25	91	1.14
1222	3.36	34.61	0.85	800	4.62	34.52	0.38	27.36	81	1.23
				1000	3.93	34.56	0.66	27.47	72	1.38
100.90 CREST; April 12, 1953; 2027 GCT; 29°39'N, 120°49'W; sounding, 2100 fm; wind, 340°, force 3; weather, cloudy; sea, moderate; wire angle, 05°.										
0	14.86	33.28	5.41	0	14.86	33.28	5.41	24.70	325	0.00
10	14.54	33.34	5.36	10	14.54	33.34	5.36	24.81	315	0.03
20	14.52	33.28	5.34	20	14.52	33.28	5.34	24.77	319	0.06
35	14.49	33.32	5.24	30	14.52	33.31	5.26	24.79	317	0.10
50	14.28	33.26	5.26	50	14.28	33.26	5.26	24.81	316	0.16
64	13.85	33.25	5.28	75	12.85	33.20	5.41	25.05	294	0.24
79	12.68	33.18	5.43	100	11.47	33.17	4.81	25.29	271	0.31
98	11.64	33.16	4.90	150	9.23	33.53	3.84	25.95	209	0.43
122	10.29	33.31	4.41	200	8.55	33.91	2.77	26.36	171	0.52
150	9.23	33.53	3.84	250	7.93	34.03	2.49	26.54	154	0.60
197	8.59	33.90	2.82	300	7.24	34.07	1.95	26.67	142	0.68
244	8.01	34.02	2.54	400	6.29	34.17	1.00	26.88	123	0.81
292	7.32	34.07	2.02	500	5.62	34.25	0.51	27.03	110	0.93
390	6.38	34.16	1.14	600	(5.14)	(34.35)	(0.42)	(27.17)	(98)	(1.03)
487	5.70	34.24	0.54							
589	5.18	34.34	0.43							
100.90 CREST; April 12, 1953; 2133, 2230 GCT; 29°39'N, 120°49'W; sounding, 2100 fm; wind, 340°, force 3; weather, cloudy; sea, moderate; wire angle, 05°, 10°.										
0	15.04			0	15.04					
10	14.55			10	14.55					
25	14.51			20	14.52					
50	13.99			30	14.48					
75	13.42			50	13.99					
100	11.58			75	13.42					
154	9.30			100	11.58					
204	8.46			150	9.41					
304	7.15			200	8.51					
409	6.23			250	7.82					
				300	7.20					
495	5.82			400	6.30					
591	5.38			500	5.79					
775	4.58			600	5.33					
958	4.12			700	4.87					
1145	3.51			800	4.50					
1441	2.86			1000	4.00					
1926	2.17			1200	3.39					
2416	1.82			1500	2.74					
2970	1.67			2000	2.10					
				2500	1.79					

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

CREST; April 14, 1953; 1142 GCT; 31°05.5'N, 116°24.5'W; sounding, 40 fm; wind, 350°, force 2; weather, clear; sea, slight; wire angle, 08°. 103.30

0	11.73	33.82	5.02	0	11.73	33.82	5.02	25.74	226	0.00
10	11.05	33.75	3.68	10	11.05	33.75	3.68	25.81	219	0.02
20	10.06	33.83	2.65	20	10.06	33.83	2.65	26.05	197	0.04
30	9.88	33.93	2.23	30	9.88	33.93	2.23	26.16	187	0.06
49	9.88	34.03	1.98							

CREST; April 14, 1953; 0839 GCT; 30°52'N, 116°43'W; sounding, 950 fm; wind, 330°, force 4; weather, clear; sea, rough; wire angle, 28°. 103.35

0	14.71	33.32	5.31	0	14.71	33.32	5.31	24.76	319	0.00
9	14.74	33.31	4.92	10	14.74	33.31	4.92	24.75	321	0.03
18	14.72	33.41	5.21	20	14.72	33.41	5.22	24.83	314	0.06
31	14.68	33.32	5.24	30	14.68	33.32	5.25	24.77	320	0.10
44	14.63	33.37	5.24	50	14.61	33.35	5.28	24.81	316	0.16
58	14.06	33.31	5.29	75	11.60	33.31	4.67	25.37	263	0.23
70	12.13	33.32	4.83	100	10.05	33.36	3.90	25.68	234	0.29
87	10.84	33.23	4.37	150	8.96	33.82	3.09	26.22	183	0.40
107	9.81	33.49	3.72	200	8.50	34.10	2.60	26.51	156	0.48
130	9.25	33.64	3.20	250	8.40	34.31	1.50	26.69	140	0.56
170	8.80	34.00	3.01	300	7.89	34.30	1.13	26.76	134	0.63
209	8.46	34.14	2.35	400	7.01	34.33	0.62	26.91	121	0.75
251	8.40	34.31	1.49	500	6.27	34.44	0.35	27.10	104	0.87
337	7.46	34.29	0.97							
422	6.86	34.35	0.52							
513	6.16	34.45	0.35							

CREST; April 14, 1953; 0518 GCT; 30°44.5'N, 117°04'W; sounding, 900 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 12°. 103.40

0	14.58	33.27	5.39	0	14.58	33.27	5.39	24.75	320	0.00
10	14.63	33.30	5.30	10	14.63	33.30	5.30	24.76	320	0.03
20	14.48	33.27	5.47	20	14.48	33.27	5.47	24.77	319	0.06
34	14.22	33.30	5.51	30	14.27	33.29	5.52	24.83	314	0.10
48	14.22	33.25	5.34	50	14.23	33.25	5.36	24.81	316	0.16
63	13.21	33.22	5.66	75	12.34	33.15	4.97	25.11	288	0.23
77	12.28	33.15	4.96	100	10.90	33.28	4.70	25.48	254	0.30
96	11.12	33.27	4.77	150	8.82	33.70	3.35	26.15	190	0.41
119	9.89	33.33	4.11	200	8.22	33.99	2.60	26.47	160	0.50
146	8.96	33.66	3.43	250	7.95	34.20	1.85	26.67	142	0.58
191	8.29	33.95	2.75	300	7.56	34.28	1.22	26.79	131	0.64
236	8.04	34.15	2.06	400	6.81	34.30	0.65	26.91	121	0.77
282	7.71	34.27	1.43	500	6.06	34.39	0.48	27.08	105	0.88
380	6.99	34.28	0.69							
473	6.22	34.38	0.50							
574	5.69	34.39	0.37							

CREST; April 14, 1953; 0001 GCT; 30°27'N, 117°46'W; sounding, 1470 fm; wind, 320°, force 4; weather, clear; sea, moderate; wire angle, 23°. 103.50

0	14.23	33.27	5.45	0	14.23	33.27	5.45	24.82	313	0.00
9	14.06	33.25	5.46	10	14.01	33.25	5.65	24.85	311	0.03
18	13.92	33.25	5.34	20	13.90	33.25	5.35	24.88	309	0.06
32	13.86	33.23	5.53	30	13.85	33.23	5.53	24.87	310	0.09
46	13.86	33.12	5.38	50	13.83	33.12	5.40	24.79	318	0.16
59	13.76	-	5.49	75	13.48	33.19	5.53	24.92	306	0.23
72	13.50	33.19	5.55	100	10.64	33.14	4.52	25.41	259	0.30
89	11.25	33.13	4.74	150	9.22	33.67	3.20	26.06	198	0.42
110	10.24	33.17	4.33	200	8.69	34.09	2.52	26.48	160	0.51
133	9.40	33.47	3.58	250	7.99	34.10	2.34	26.59	150	0.59
174	9.02	33.91	2.90	300	7.41	34.15	1.97	26.71	139	0.66
213	8.49	34.11	2.39	400	6.45	34.19	0.98	26.88	124	0.79
254	7.94	34.10	2.31	500	5.84	34.33	0.51	27.07	107	0.90
341	7.07	34.19	1.42							
428	6.20	34.20	0.82							
523	5.75	34.36	0.43							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

103.60 CREST; April 13, 1953; 1917 GCT; 30°09'N, 118°27'W; sounding, 1500 fm; wind, 300°, force 3; weather, clear; sea, slight; wire angle, 07°.

0	14.21	33.28	5.39	0	14.21	33.28	5.39	24.84	312	0.00
10	13.94	33.27	5.28	10	13.94	33.27	5.28	24.88	308	0.03
20	13.84	33.27	5.63	20	13.84	33.27	5.63	24.90	306	0.06
35	13.67	33.25	5.47	30	13.69	33.25	5.55	24.92	305	0.09
50	13.70	33.27	5.30	50	13.70	33.27	5.30	24.93	304	0.15
64	13.67	33.28	5.32	75	13.45	33.29	5.35	25.00	298	0.23
78	13.12	33.29	5.36	100	11.81	33.26	5.42	25.30	271	0.30
97	12.10	33.26	5.43	150	9.21	33.59	3.86	26.00	204	0.42
120	10.15	33.33	4.77	200	8.70	33.99	2.57	26.40	168	0.51
148	9.24	33.57	3.92	250	7.84	34.10	2.30	26.61	148	0.59
194	8.78	33.96	2.65	300	7.49	34.15	1.75	26.70	140	0.66
239	7.99	34.09	2.38	400	6.75	34.24	0.75	26.88	124	0.79
286	7.58	34.14	1.90	500	6.04	34.33	0.38	27.04	110	0.91
383	6.89	-	0.90	600	(5.48)	(34.40)		(27.16)	(98)	(1.02)
477	6.21	34.31	0.41							
580	5.58	34.39	0.31							

103.70 CREST; April 13, 1953; 1420 GCT; 29°48'N, 119°07'W; sounding, 1900 fm; wind, 330°, force 3; weather, partly cloudy; sea, rough; wire angle, 05°.

0	14.74	33.27	5.28	0	14.74	33.27	5.28	24.72	324	0.00
10	14.76	33.29	5.18	10	14.76	33.29	5.18	24.73	323	0.03
20	14.68	33.27	5.38	20	14.68	33.27	5.38	24.73	323	0.06
35	14.66	33.29	5.42	30	14.65	33.29	5.42	24.75	321	0.10
50	14.68	-	5.34	50	14.68	33.28	5.34	24.74	323	0.16
65	14.64	33.27	5.50	75	14.58	33.37	5.40	24.83	315	0.24
79	14.56	33.38	5.36	100	13.10	33.30	5.30	25.08	292	0.32
99	13.29	33.30	5.31	150	9.99	33.41	4.33	25.73	230	0.45
122	11.40	-	4.82	200	8.85	33.71	3.45	26.15	191	0.55
151	9.94	33.41	4.33	250	8.18	34.04	2.86	26.51	157	0.64
198	8.90	33.69	3.48	300	7.82	34.18	1.70	26.68	142	0.71
244	8.26	34.01	2.95	400	7.04	34.33	0.75	26.91	122	0.85
291	7.89	34.16	1.91	500	6.03	34.36	0.48	27.06	107	0.96
392	7.13	34.33	0.78	600	(5.64)	(34.39)	(0.30)	(27.14)	(101)	(1.06)
489	6.10	34.36	0.51							
595	5.66	34.39	0.31							

103.80 CREST; April 13, 1953; 0852 GCT; 29°27'N, 119°45.5'W; sounding, 2100 fm; wind, 300°, force 4; weather, clear; sea, moderate; wire angle, 10°.

0	15.39	33.51	5.12	0	15.39	33.51	5.12	24.76	320	0.00
10	15.41	33.54	5.58	10	15.41	33.54	5.58	24.78	318	0.03
19	15.30	33.52	5.35	20	15.29	33.52	5.21	24.79	317	0.06
32p	15.28	33.50r	5.57r	30	15.28	33.49	5.09	24.77	320	0.10
34	15.27	33.49	5.08	50	15.24	33.52	5.42	24.80	317	0.16
49	15.28	33.52	5.43	75	14.75	33.36	6.02	24.78	319	0.24
51p	15.21	33.52r	5.56r	100	14.20	33.23	5.58	24.80	318	0.32
63	15.00	33.45	5.07	150	10.51	33.48	4.92	25.70	233	0.46
73p	14.80	33.42r	5.24r	200	9.10	33.60	3.40	26.03	203	0.56
78	14.70	-	6.03	250	8.65	34.05	2.59	26.45	163	0.66
111p	13.87	33.23	5.37	300	8.18	34.20	1.80	26.64	146	0.73
149p	10.75	33.48	4.94	400	7.00	34.27	0.75	26.87	126	0.87
187p	9.30	33.53	3.75							
267p	8.52	34.13	2.33							
344p	7.60	34.24	1.18							
426p	6.76	34.27	0.67							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

CREST; April 13, 1953; 0336 GCT; 29°04'N, 120°25'W; sounding, 2000+ fm; wind, 020°, force 2; weather, clear; sea, slight; wire angle, 03°. 103.90

0	15.40	33.53	5.46	0	15.40	33.53	5.46	24.77	318	0.00
10	15.36	33.51	5.47	10	15.36	33.51	5.47	24.77	319	0.03
20	15.10	33.53	5.27	20	15.10	33.53	5.27	24.84	313	0.06
35	14.99	33.45	5.24	30	14.99	33.48	5.26	24.82	314	0.10
50	15.02	33.45	5.17	50	15.02	33.45	5.17	24.79	318	0.16
65	14.78	33.53	5.38	75	14.83	33.58	5.31	24.93	305	0.24
80	14.86	33.59	5.28	100	12.95	33.15	5.45	24.99	300	0.31
100	12.95	33.15	5.45	150	10.08	33.25	4.53	25.59	243	0.45
124	11.63	-	4.88	200	8.75	33.77	3.18	26.22	185	0.55
153	9.91	33.27	4.50	250	8.09	34.01	2.93	26.50	158	0.64
201	8.75	33.78	3.16	300	7.29	34.09	2.57	26.68	141	0.72
248	8.12	34.01	2.95	400	6.30	34.19	1.19	26.90	122	0.85
295	7.36	34.09	2.63	500	5.63	34.29	0.59	27.06	107	0.96
395	6.37	34.19	1.26	600	(5.20)	(34.37)	(0.39)	(27.17)	(97)	(1.06)
492	5.66	34.29	0.62							
593	5.22	34.37	0.41							

CREST; April 14, 1953; 1612 GCT; 30°26'N, 116°10.5'W; sounding, 105 fm; wind, 340°, force 3; weather, clear; sea, moderate; wire angle, 15°. 107.32

0	11.63	33.70	5.91	0	11.63	33.70	5.91	25.67	233	0.00
9	11.27	33.65	4.73	10	11.21	33.65	4.69	25.71	230	0.02
24	11.04	33.63	4.41	20	11.09	33.63	4.50	25.71	229	0.05
48	9.99	33.77	2.95	30	10.84	33.63	4.20	25.76	225	0.07
72	10.08	34.11	1.91	50	9.98	33.80	2.90	26.04	199	0.11
96	10.25	34.42	1.05	75	10.10	34.17	1.76	26.31	174	0.16
120	10.20	34.44	0.90	100	10.24	34.43	1.00	26.49	158	0.20
149	10.12	34.50	0.69	150	(10.12)	(34.50)	(0.69)	(26.56)	(152)	(0.28)

CREST; April 14, 1953; 1817 GCT; 30°20'N, 116°23'W; sounding, 970 fm; wind, 320°, force 6; weather, partly cloudy; sea, rough; wire angle, 19°. 107.35

0	14.39	33.33	5.37	0	14.39	33.33	5.37	24.84	312	0.00
9	14.36	33.40	5.58	10	14.35	33.40	5.58	24.90	306	0.03
19	14.21	33.36	5.43	20	14.20	33.35	5.41	24.89	308	0.06
33	13.28	33.30	5.37	30	13.79	33.31	5.39	24.95	302	0.09
47	11.06	33.19	4.92	50	10.90	33.19	4.66	25.41	259	0.15
60	10.48	33.32	4.30	75	9.84	33.43	3.88	25.77	224	0.21
74	9.82	33.43	3.92	100	9.26	33.65	3.60	26.04	200	0.26
92	9.40	33.59	3.67	150	10.15	34.30	1.49	26.40	167	0.35
114	9.19	33.74	3.42	200	10.06	34.45	0.95	26.53	155	0.43
140	10.12	34.18	1.72	250	9.73	34.53	0.68	26.65	145	0.51
183	10.16	34.46	1.06	300	9.41	34.55	0.58	26.72	139	0.58
225	9.84	34.49	0.81	400	7.93	34.50	0.48	26.91	122	0.71
267	9.64	34.55	0.64	500	6.73	34.45	0.43	27.04	110	0.83
361	8.60	34.52	0.50							
450	7.23	34.47	0.45							
546	6.36	34.43	0.35							

	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
107.40	CREST; April 14, 1953; 2119 GCT; 30°10.5'N, 116°43.5'W; sounding, 1550 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 22°.										
	0	14.92	33.38	6.64	0	14.92	33.38	6.64	24.76	319	0.00
	9	14.92	33.37	7.07	10	14.92	33.37	7.08	24.75	320	0.03
	18	14.84	33.35	6.18	20	14.82	33.35	6.19	24.76	320	0.06
	32	14.73	33.37	6.29	30	14.75	33.37	6.29	24.79	317	0.10
	50	14.54	33.38	5.94	50	14.54	33.38	5.94	24.84	313	0.16
	64	13.58	33.19	6.07	75	12.53	33.19	5.89	25.10	288	0.23
	78	12.42	33.20	5.76	100	10.95	33.31	4.85	25.49	252	0.30
	101	10.88	33.31	4.84	150	9.62	33.82	3.30	26.12	194	0.41
	123	9.98	33.40	4.72	200	9.92	34.23	1.85	26.38	169	0.50
	149	9.61	33.81	3.46	250	9.03	34.31	1.89	26.59	150	0.58
	196	9.96	34.21	1.87	300	8.62	34.32	1.16	26.67	144	0.66
	246	9.07	34.31	1.91	400	7.38	34.35	0.82	26.87	125	0.79
	289	8.74	34.32	1.28	500	6.46	34.36	0.44	27.01	113	0.91
	388	7.51	34.35	0.85	600	(5.73)	(34.38)	(0.36)	(27.12)	(103)	(1.02)
	489	6.58	34.36	0.47							
	590	5.79	34.38	0.36							
107.50	CREST; April 15, 1953; 0259 GCT; 29°50.5'N, 117°23.5'W; sounding, 1150 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 20°.										
	0	15.18	33.47	6.23	0	15.18	33.47	6.23	24.77	318	0.00
	9	15.20	33.40	5.90	10	15.20	33.40	5.91	24.72	324	0.03
	19	15.18	33.47	6.66	20	15.18	33.47	6.65	24.77	319	0.06
	33	15.17	33.45	5.98	30	15.16	33.45	6.00	24.76	320	0.10
	52	15.10	33.50	6.08	50	15.12	33.50	6.09	24.81	316	0.16
	66	15.02	33.45	5.97	75	13.30	33.26	5.88	25.01	298	0.24
	79	12.74	33.25	5.83	100	11.41	33.26	5.16	25.37	264	0.31
	101	11.36	33.27	5.15	150	9.52	33.68	3.98	26.02	202	0.42
	122	10.54	33.41	4.86	200	9.32	34.01	3.06	26.31	176	0.52
	148	9.56	33.65	4.00	250	8.69	34.17	2.21	26.54	155	0.60
	194	9.33	33.99	3.17	300	8.35	34.27	1.39	26.67	143	0.68
	244	8.72	34.16	2.32	400	7.35	34.36	0.74	26.89	124	0.81
	287	8.46	-	1.54	500	6.52	34.40	0.46	27.03	111	0.93
	387	7.48	34.35	0.80	600	(5.69)	(34.41)		(27.15)	(100)	(1.03)
	486	6.62	34.40	0.47							
	586	5.81	34.41	0.32							
107.60	CREST; April 15, 1953; 0845 GCT; 29°27.5'N, 118°05.5'W; sounding, 1850 fm; wind, 340°, force 5; weather, clear; sea, rough; wire angle, 22°.										
	0	15.46	33.55	5.78	0	15.46	33.55	5.78	24.77	318	0.00
	9	15.50	33.55	5.85	10	15.50	33.55	5.85	24.77	319	0.03
	18	15.49	33.57	5.78	20	15.48	33.57	5.78	24.79	318	0.06
	32	15.47	33.57	5.81	30	15.47	33.57	5.81	24.79	318	0.10
	51	15.42	33.56	5.79	50	15.42	33.56	5.80	24.79	318	0.16
	64	15.47	33.62	5.79	75	15.46	33.60	5.80	24.81	317	0.24
	78	15.47	33.59	5.80	100	14.60	33.53	5.81	24.95	304	0.32
	100	14.60	33.53	5.81	150	11.19	33.73	3.62	25.77	226	0.45
	121	12.83	33.52	5.03	200	9.48	33.96	3.07	26.25	182	0.55
	147	11.34	33.71	3.67	250	9.16	34.19	2.28	26.48	161	0.64
	193	9.56	33.92	3.19	300	8.16	34.19	2.20	26.63	146	0.71
	245	9.22	34.19	2.29	400	7.48	34.39	0.76	26.89	123	0.85
	289	8.34	34.18	2.24	500	6.70	34.41	0.45	27.02	112	0.97
	390	7.52	34.37	0.81	600	6.08	34.41	0.32	27.10	106	1.08
	486	6.80	34.41	0.48							
	600	6.08	34.41	0.32							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

CREST; April 16, 1953; 0554 GCT; 29°11'N, 118°43'W; sounding, 1650 fm; wind, 010°, force 4; weather, clear; sea, rough; wire angle, 18°. 107.70

0	15.64	33.55	6.02	0	15.64	33.55	6.02	24.73	322	0.00
9	15.65	33.60u	6.35	10	15.65	33.55	6.34	24.73	323	0.03
19	15.64	33.55	6.19	20	15.63	33.55	6.21	24.74	322	0.06
33	15.60	33.70u	6.35	30	15.60	33.56	6.33	24.75	322	0.10
52	15.64	33.58	5.98	50	15.63	33.58	6.03	24.76	321	0.16
65	15.58	33.64	5.91	75	15.56	33.63	5.83	24.81	316	0.24
79	15.56	33.63	5.81	100	14.25	33.38	5.92	24.90	308	0.32
101	14.02	33.37	5.93	150	11.16	33.57	4.34	25.65	238	0.45
124	12.41	33.31	5.78	200	10.26	34.28	2.60	26.37	171	0.56
150	11.16	33.57	4.34	250	10.41	34.44	1.22	26.46	163	0.64
197	10.26	-	2.76	300	9.60	34.41	1.06	26.58	153	0.72
251	10.41	34.44	1.22	400	7.60	34.32	0.85	26.82	130	0.86
295	9.75	34.42	1.04	500	6.69	34.33	0.55	26.95	118	0.98
397	7.62	34.32	0.87	600	(5.99)	(34.36)	(0.40)	(27.07)	(108)	(1.10)
495	6.74	34.33	0.58							
597	6.00	34.36	0.39							

CREST; April 16, 1953; 1035 GCT; 28°53'N, 119°18.5'W; sounding, 1950 fm; wind, 330°, force 5; weather, missing; sea, rough; wire angle, 20°. 107.80

0	15.48	33.54	5.83	0	15.48	33.54	5.83	24.76	319	0.00
9	15.47	33.52	5.75	10	15.46	33.52	5.77	24.75	321	0.03
18	15.47	33.52	5.95	20	15.50	33.53	5.94	24.75	321	0.06
33	15.62	33.59	5.81	30	15.62	33.58	5.83	24.76	320	0.10
52	15.54	33.65	5.83	50	15.55	33.65	5.84	24.83	314	0.16
65	15.47	33.55	5.82	75	15.41	33.61	5.84	24.83	315	0.24
79	15.40	33.61	5.83	100	14.20	33.32	5.94	24.87	312	0.32
103	13.94	33.32	5.94	150	11.25	33.41	4.51	25.51	251	0.46
128	12.47	33.41	5.28	200	9.46	33.77	4.00	26.10	196	0.57
155	11.05	33.42	4.43	250	8.61	34.01	3.35	26.43	166	0.66
204	9.37	33.80	3.94	300	7.98	34.12	2.79	26.61	149	0.74
257	8.51	34.03	3.25	400	6.92	34.19	1.25	26.81	130	0.88
301	7.96	34.12	2.75	500	6.10	34.33	0.63	27.03	110	1.00
404	6.89	34.19	1.22	600	5.51	34.41	0.47	27.17	98	1.10
505	6.06	34.33	0.61							
613	5.44	34.42	0.45							

CREST; April 16, 1953; 1138, 1302 GCT; 28°53'N, 119°18.5'W; sounding, 1950 fm; wind, 330°, force 5; weather, missing; sea, rough; wire angle, 12°, 18°. 107.80

0	15.59	0	15.59
10	15.62	10	15.62
24	15.56	20	15.58
53	15.64	30	15.58
107	14.31	50	15.64
161	10.51	75	15.64
215	9.24	100	15.50
322	7.86	150	10.86
391	7.12	200	9.53
		250	8.69
416	7.00	300	8.14
534	5.95	400	7.08
664	5.26	500	6.24
794	4.72	600	5.58
1031	3.93	700	5.10
		800	4.70
		1000	4.03

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OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
107.90	CREST; April 16, 1953; 1829 GCT 28°28'N, 120°05'W; sounding, 2000+ fm; wind, 350°, force 4; weather, partly cloudy; sea, rough; wire angle, 15°.									
0	15.43	33.45	5.81	0	15.43	33.45	5.81	24.70	325	0.00
9	15.44	33.45	5.81	10	15.44	33.45	5.82	24.70	325	0.03
19	15.42	33.47	5.83	20	15.42	33.47	5.85	24.72	324	0.06
33	15.40	33.53	5.93	30	15.41	33.52	5.91	24.76	320	0.10
53	15.44	33.55	5.91	50	15.43	33.55	5.94	24.78	319	0.16
67	15.17	33.44	5.80	75	15.15	33.45	5.78	24.77	321	0.24
81	15.17	33.45	5.78	100	15.15	33.47	5.95	24.78	320	0.32
104	15.02	33.47	5.97	150	10.95	33.45	5.06	25.60	243	0.46
127	12.96	33.46	5.66	200	9.13	33.80	4.14	26.18	188	0.57
154	10.74	33.45	4.94	250	8.23	34.00	3.82	26.48	161	0.66
202	9.08	33.82	4.11	300	7.50	34.04	2.79	26.61	148	0.73
256	8.13	34.01	3.74	400	6.32	34.19	1.44	26.89	122	0.87
301	7.49	34.04	2.76	500	5.71	34.25	0.61	27.02	111	0.99
407	6.28	34.20	1.38	600	5.22	34.32	0.38	27.13	101	1.09
510	5.65	34.26	0.58							
615	5.16	34.33	0.35							
110.33	CREST; April 18, 1953; 0753 GCT; 29°49.5'N, 115°53.5'W; sounding, 85 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 10°.									
0	12.16	33.59	6.87	0	12.16	33.59	6.87	25.48	250	0.00
10	12.08	33.61	6.56	10	12.08	33.61	6.56	25.52	248	0.02
20	11.21	33.66	4.84	20	11.21	33.66	4.84	25.72	229	0.05
30	11.15	33.75	5.89	30	11.15	33.75	5.89	25.80	222	0.07
49	9.88	33.66	3.44	50	9.81	33.66	3.42	25.96	206	0.11
74	9.59	33.93	2.85	75	9.59	33.96	2.75	26.23	181	0.16
98	10.35	34.29	1.35	100	(10.50)	(34.32)	(1.21)	(26.35)	(170)	(0.21)
110.35	CREST; April 18, 1953; 0632 GCT; 29°46'N, 116°00'W; sounding, 850 fm; wind, 340°, force 5; weather, partly cloudy; sea, very rough; wire angle, 40°.									
0	12.47	33.67	6.41	0	12.47	33.67	6.41	25.49	250	0.00
8	12.29	33.69	6.35	10	12.20	33.69	6.33	25.55	244	0.02
15	11.8	33.62	6.08	20	11.37	33.60	5.36	25.64	236	0.05
27	10.97	33.59	4.57	30	10.80	33.59	4.25	25.73	227	0.07
42	10.42	33.68	3.72	50	10.22	33.63	3.54	25.87	215	0.12
54	10.14	33.63	3.46	75	9.65	33.80	3.28	26.09	194	0.17
65	9.86	33.75	3.29	100	9.28	33.94	3.10	26.26	178	0.21
84	9.54	33.84	3.30	150	9.40	34.25	1.80	26.49	158	0.30
101	9.28	33.95	3.04	200	9.60	(34.46)	0.77	(26.62)	(147)	(0.38)
122	9.12	34.05	2.64	250	9.28		0.46			
159	9.46	34.31	1.55	300	8.68		0.45			
199	9.59	34.45	0.79	400	7.74		0.35			
234	9.44	34.57[a]	0.49	500	6.78		0.34			
321	8.45	34.44	0.43							
412	7.62	34.57	0.35							
509	6.67	34.39	0.33							

a) Last four salinity values erratic; no interpolations made.

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
CREST; April 18, 1953; 0310 GCT; 29°36.5'N, 116°19.5'W; sounding, 1150 fm; wind, 330°, force 5; weather, partly cloudy; sea, very rough; wire angle, 28°.										110.40
0	12.89	33.55	7.21	0	12.89	33.55	7.21	25.31	267	0.00
9	12.90	33.52	7.27	10	12.91	33.52	7.29	25.29	270	0.03
18	12.90	33.54	7.67	20	12.90	33.54	7.68	25.30	268	0.05
31	12.29	33.55	5.78	30	12.40	33.55	5.90	25.41	258	0.08
48	10.60	33.58	3.73	50	10.55	33.59	3.68	25.78	224	0.13
62	10.33	33.67	3.34	75	10.27	33.78	2.94	25.97	206	0.18
75	10.27	33.78	2.94	100	10.11	33.93	2.44	26.12	192	0.23
96	10.12	33.91	2.45	150	9.45	34.12	2.30	26.38	169	0.32
117	10.05	33.99	2.39	200	9.43	34.30	1.29	26.52	156	0.40
141	9.53	34.09	2.35	250	8.98	34.35	1.10	26.63	146	0.48
185	9.42	34.25	1.66	300	8.10	34.31	1.24	26.74	137	0.55
232	9.36	34.37	0.94	400	7.26	34.37	0.58	26.91	122	0.68
270	8.31	34.31	1.29	500	6.34	34.41	0.44	27.06	108	0.79
365	7.66	34.35	0.66							
461	6.62	34.41	0.49							
560	5.98	34.38	0.38							
CREST; April 17, 1953; 2221 GCT; 29°18'N, 117°00'W; sounding, 1750 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 25°.										110.50
0	15.03	33.18	6.33	0	15.03	33.18	6.33	24.58	336	0.00
9	15.06	33.17	6.10	10	15.05	33.17	6.10	24.57	338	0.03
23	14.96	33.17	6.20	20	14.98	33.17	6.19	24.59	336	0.07
44	14.86	33.19	5.95	30	14.92	33.18	6.14	24.61	335	0.10
65	14.40	33.15	5.96	50	14.77	33.19	5.95	24.65	332	0.17
86	12.22	33.03	5.66	75	13.70	33.05	5.87	24.76	321	0.25
132	10.06	33.32	4.42	100	11.30	33.04	5.20	25.22	278	0.32
173	9.54	33.79	3.50	150	9.72	33.54	3.96	25.88	216	0.45
214	9.24	34.03	2.77	200	9.35	33.97	3.02	26.28	179	0.55
257	8.69	34.17	2.06	250	8.78	34.15	2.15	26.51	158	0.63
344	7.93	34.26	1.06	300	8.28	34.23	1.54	26.65	145	0.71
429	7.14	34.31	0.54	400	7.40	34.29	0.66	26.82	130	0.84
519	6.35	34.30	0.37	500	6.50	34.31	0.40	26.96	117	0.97
695	5.14	34.36	0.43	600	5.67	34.32	0.39	27.08	107	1.08
874	4.49	34.46	0.48	700	5.12	34.37	0.43	27.18	97	1.18
1064	3.83	34.50	0.83	800	4.73	34.43	0.42	27.28	89	1.28
				1000	4.07	34.49	0.70	27.40	78	1.44
CREST; April 17, 1953; 1705 GCT; 28°58'N, 117°40'W; sounding, 2000+ fm; wind, 320°, force 4; weather, cloudy; sea, rough; wire angle, 08°.										110.60
0	15.29	33.41	5.94	0	15.29	33.41	5.94	24.70	325	0.00
10	15.30	33.33	6.39	10	15.30	33.33	6.39	24.64	331	0.03
20	15.28	33.34	6.44	20	15.28	33.34	6.44	24.65	330	0.07
35	15.25	33.34	6.24	30	15.26	33.34	6.36	24.66	330	0.10
55	14.70	33.27	6.00	50	15.06	33.28	6.02	24.65	331	0.17
70	13.97	33.27	6.48	75	13.74	33.27	6.44	24.93	306	0.24
84	13.32	33.27	5.40	100	12.15	33.32	4.50	25.28	272	0.32
109	11.55	33.45	4.14	150	10.55	33.70	3.17	25.86	218	0.44
133	10.85	33.56	3.69	200	9.85	33.99	2.34	26.21	186	0.54
161	10.40	33.81	2.84	250	9.39	34.19	1.48	26.44	164	0.63
212	9.73	34.04	2.14	300	8.88	34.20	1.10	26.53	157	0.71
268	9.21	34.21	1.29	400	7.45	34.17	0.75	26.72	139	0.86
315	8.66	34.19	1.04	500	6.49	34.20	0.48	26.88	125	0.99
423	7.19	34.17	0.69	600	5.73	34.21	0.30	26.98	116	1.11
527	6.26	34.21	0.40							
631	5.58	34.21	0.33							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
110.70	CREST; April 17, 1953; 1114 GCT; 28°36'N, 118°24'W; sounding, 1950 fm; wind, 330°, force 5; weather, clear; sea, rough; wire angle, 25°.									
0	15.41	33.52	5.82	0	15.41	33.52	5.82	24.76	319	0.00
9	15.45	33.53	5.81	10	15.47	33.53	5.81	24.76	320	0.03
23	15.45	33.49	5.81	20	15.45	33.50	5.81	24.74	322	0.06
50	15.41	33.50	5.86	30	15.45	33.48	5.83	24.72	324	0.10
73	15.40	33.57	5.79	50	15.41	33.50	5.86	24.75	322	0.16
100	14.58	33.45	5.82	75	15.39	33.57	5.78	24.81	317	0.24
112	14.48	33.58	5.81	100	14.58	33.45	5.82	24.89	310	0.32
142	11.57	33.39	4.98	150	11.20	33.40	4.37	25.52	251	0.46
176	10.10	33.69	3.57	200	9.58	33.89	3.08	26.18	189	0.57
204	9.53	33.91	3.01	250	9.23	34.12	1.95	26.41	167	0.66
268	9.01	34.17	1.77	300	8.46	34.19	1.62	26.59	151	0.74
330	8.04	34.21	1.45	400	7.62	34.32	0.79	26.82	131	0.88
390	7.69	34.31	0.86	500	6.50	34.33	0.38	26.98	116	1.00
510	6.40	34.33	0.37	600	5.79	34.41	0.29	27.13	102	1.11
631	5.62	34.42	0.28	700	5.33	34.42	0.27	27.20	96	1.21
764	5.08	34.42	0.32							
110.80	CREST; April 17, 1953; 0614 GCT; 28°17'N, 118°59'W; sounding, 2000+ fm; wind, 330°, force 5; weather, clear; sea, rough; wire angle 24°.									
0	15.52	33.49	5.85	0	15.52	33.49	5.85	24.71	324	0.00
9	15.56	33.51	6.04	10	15.55	33.51	6.04	24.73	323	0.03
18	15.54	33.50	5.86	20	15.54	33.50	5.88	24.72	324	0.06
32	15.54	33.52	6.10	30	15.55	33.51	6.09	24.72	324	0.10
50	15.54	33.55	5.85	50	15.54	33.55	5.85	24.76	321	0.16
64	15.53	33.56	5.83	75	15.51	33.61	6.00	24.81	317	0.24
78	15.50	33.62	6.00	100	13.81	33.45	5.50	25.05	294	0.32
100	13.81	33.45	5.50	150	10.90	33.60	3.92	25.72	231	0.45
123	12.36	33.53	5.00	200	10.14	34.10	2.50	26.25	182	0.55
149	10.92	33.60	4.00	250	9.42	34.24	1.69	26.48	161	0.64
197	10.18	34.09	2.56	300	8.77	34.39	1.19	26.70	141	0.71
248	9.48	34.24	1.73	400	7.67	34.39	0.81	26.86	126	0.85
291	8.86	34.38	1.24	500	6.55	34.35	0.52	26.99	114	0.97
390	7.79	34.39	0.85	600	(5.86)	(34.39)		(27.11)	(104)	(1.08)
486	6.69	34.35	0.54							
585	5.92	34.38	0.37							
110.90	CREST; April 16, 1953; 2317 GCT; 27°56.5'N, 119°37'W; sounding, 1950 fm; wind, 340°, force 5; weather, partly cloudy; sea, rough; wire angle, 25°.									
0	16.20	33.67	5.75	0	16.20	33.67	5.75	24.70	325	0.00
8	16.20	33.65	5.77	10	16.19	33.65	5.77	24.69	327	0.03
22	16.10	33.64	5.81	20	16.12	33.64	5.82	24.70	326	0.06
44	16.08	33.71	5.93	30	16.09	33.66	5.90	24.72	324	0.10
68	15.98	33.66	5.83	50	16.06	33.71	5.92	24.76	321	0.16
89	15.66	33.69	5.79	75	15.90	33.67	5.82	24.77	321	0.24
134	12.33	33.60	4.99	100	14.85	33.68	5.72	25.01	299	0.32
173	10.39	33.70	4.20	150	11.30	33.61	4.67	25.66	237	0.45
212	9.25	34.01	3.44	200	9.50	33.92	3.68	26.21	185	0.56
251	8.48	34.14	2.49	250	8.52	34.14	2.51	26.54	155	0.64
335	7.70	34.21	1.65	300	7.48	34.19	1.98	26.66	144	0.72
414	6.98	34.21	0.92	400	7.04	34.21	1.00	26.81	130	0.86
500	6.36	34.35	0.52	500	6.36	34.35	0.52	27.01	112	0.98
670	5.32	34.40	0.34	600	5.73	34.38	0.34	27.12	103	1.09
843	4.47	34.45	0.50	700	5.15	34.41	0.38	27.21	95	1.18
1028	3.95	34.50	0.68	800	4.62	34.44	0.47	27.30	87	1.28
				1000	4.03	34.49	0.64	27.40	78	1.44

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

CREST; April 17, 1953; 0017, 0053 GCT; 27°56.5'N, 119°37'W; sounding, 1950 fm; wind, 340°, force 5; weather, partly cloudy; sea, rough; wire angle, 20°, 22°. 110.90

0	16.17			0	16.17					
9	16.20			10	16.19					
23	16.08			20	16.09					
47	16.06			30	16.07					
70	16.04			50	16.06					
94	15.78			75	16.03					
146	11.58			100	15.58					
193	9.66			150	11.36					
288	8.07			200	9.51					
377	7.14			250	8.52					
				300	7.93					
437	6.72			400	6.97					
528	6.17			500	6.36					
706	5.02			600	5.67					
883	4.45			700	5.08					
1067	3.89			800	4.69					
1367	3.14			1000	4.09					
				1200	3.58					

SPENCER F. BAIRD; April 15, 1953; 0557 GCT; 29°21.5'N, 115°18'W; sounding, 38 fm; wind, 320°, force 3; weather, fog; sea, moderate; wire angle, 00°. 113.30

0	12.43	33.87	5.36	0	12.43	33.87	5.36	25.65	235	0.00
10	12.44	33.82	5.29	10	12.44	33.82	5.29	25.61	239	0.02
20	12.44	33.84	5.47	20	12.44	33.84	5.47	25.62	238	0.05
30	12.40	33.81	5.06	30	12.40	33.81	5.06	25.61	239	0.07

SPENCER F. BAIRD; April 15, 1953; 1121, 1018, 1041 GCT; 29°12'N, 115°40'W; sounding, 775 fm; wind, 330°, force 4; weather, cloudy; sea, moderate; wire angle, 19°, 53°, 57°. 113.35

0	14.58	33.32	5.93	0	14.58	33.32	5.93	24.79	317	0.00
9	14.60	33.31	5.86	10	14.60	33.31	5.88	24.78	318	0.03
18	14.59	33.34	6.25	20	14.58	33.34	6.24	24.80	316	0.06
33	14.58	33.30	6.12	30	14.58	33.30	6.17	24.77	319	0.10
52	14.56	33.36	5.98	50	14.57	33.36	5.98	24.82	315	0.16
65	13.27	33.22	6.02	75	12.20	33.22	5.75	25.19	280	0.23
84	11.22	33.26	5.27	100	9.99	33.51	4.41	25.81	221	0.30
103	9.88	33.55	4.27	150	9.50	34.16	2.17	26.40	166	0.39
				200	10.14	34.50	0.85	26.56	153	0.47
81	11.49	33.24	5.41	250	9.99	34.55	0.52	26.63	148	0.54
				300	9.50	34.51	0.52	26.67	144	0.62
142	9.44	34.05	2.74							
166	10.15	34.31	1.49							
229	10.12	34.56	0.53							
301	9.48	34.51	0.52							
380	8.21	34.44	0.38							

SPENCER F. BAIRD; April 15, 1953; 0712 GCT; 29°02'N, 115°59'W; sounding, 1075 fm; wind, 340°, force 4; weather, cloudy; sea, moderate; wire angle, 25°. 113.40

0	14.98	33.40	5.83	0	14.98	33.40	5.83	24.76	319	0.00
8	15.00	33.41	5.83	10	15.00	33.41	5.84	24.77	319	0.03
18	14.99	33.38	5.83	20	14.98	33.38	5.83	24.75	321	0.06
32	14.97	33.44	5.81	30	14.97	33.44	5.82	24.80	317	0.10
44	14.94	33.45	5.81	50	14.94	33.46	5.82	24.82	315	0.16
58	14.91	33.47	5.82	75	13.20	33.29	5.61	25.05	294	0.24
70	13.98	33.34	5.71	100	10.95	33.30	4.60	25.48	253	0.30
88	11.66	33.26	5.18	150	10.09	33.90	3.08	26.10	195	0.42
108	10.74	33.38	4.34	200	9.53	34.20	2.21	26.43	165	0.51
133	10.27	33.70	3.55	250	8.83	34.29	1.63	26.61	148	0.58
173	9.84	34.07	2.52	300	8.32	34.35	1.17	26.74	137	0.66
215	9.37	34.25	2.04	400	7.54	34.44	0.63	26.92	121	0.78
258	8.74	34.30	1.56	500	6.71	34.43	0.43	27.03	111	0.90
349	7.94	34.42	0.82							
441	7.21	34.44	0.51							
542	6.35	34.43	0.38							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m
113.50	**SPENCER F. BAIRD; April 15, 1953; 0215 GCT; 28°44'N, 116°39'W; sounding, 1900 fm; wind, 330°, force 3; weather, cloudy; sea, moderate; wire angle, 12°.**									
0	15.48	33.47	5.72	0	15.48	33.47	5.72	24.71	324	0.00
10	15.50	33.44	-	10	15.50	33.44	5.74	24.68	327	0.03
19	15.47	33.51	5.74	20	15.47	33.51	5.76	24.74	322	0.06
34	15.34	33.44	5.75	30	15.40	33.45	5.76	24.71	325	0.10
48	15.09	33.48	5.78	50	14.97	33.48	5.77	24.83	314	0.16
63	13.63	33.43	5.72	75	12.89	33.53	5.10	25.30	270	0.23
77	12.88	33.54	4.85	100	11.61	33.63	3.86	25.62	240	0.30
95	11.88	33.61	3.84	150	10.10	33.90	3.00	26.10	195	0.41
118	10.71	33.72	3.94	200	9.67	34.22	1.92	26.42	166	0.50
145	10.16	33.87	3.11	250	9.02	34.35	1.45	26.63	147	0.58
191	9.78	34.18	2.05	300	8.40	34.37	1.30	26.74	137	0.65
238	9.19	34.33	1.51	400	7.37	34.30	0.79	26.84	128	0.78
285	8.60	34.38	1.36	500	6.73	34.42	0.44	27.02	112	0.90
384	7.49	34.29	0.89	600	(6.03)	(34.43)		(27.12)	(103)	(1.01)
479	6.87	34.41	0.49							
581	6.16	34.43	0.35							
113.60	**SPENCER F. BAIRD; April 14, 1953; 2129 GCT; 28°25'N, 117°19'W; sounding, 2000 fm; wind, 340°, force 3; weather, partly cloudy; sea, moderate; wire angle, 04°.**									
0	15.42	33.44	6.13	0	15.42	33.44	6.13	24.70	325	0.00
10	15.38	33.46	5.77	10	15.38	33.46	5.77	24.72	323	0.03
20	15.29	33.43	5.83	20	15.29	33.43	5.83	24.72	324	0.06
35	15.24	33.46	5.71	30	15.25	33.45	5.75	24.74	322	0.10
55	15.64	33.44	5.69	50	15.61	33.45	5.69	24.66	330	0.16
69	15.33	33.47	5.75	75	14.92	33.45	5.66	24.82	316	0.24
83	14.20	33.38	5.25	100	12.26	33.48	4.00	25.38	263	0.32
106	11.80	33.55	3.70	150	10.40	34.11	2.22	26.21	185	0.43
130	10.88	33.77	3.00	200	9.63	34.27	1.96	26.46	161	0.51
143	10.54	34.06	2.28	250	9.29	34.39	1.29	26.61	148	0.59
207	9.58	34.29	1.90	300	8.60	34.35	1.00	26.69	141	0.66
268	9.15	34.41	1.16	400	7.21	34.32	0.72	26.88	125	0.80
323	8.20	34.31	0.93	500	6.30	34.35	0.48	27.02	112	0.92
437	6.88	34.33	0.63	600	5.69	34.44	0.33	27.17	98	1.02
546	6.00	34.38	0.38							
657	5.41	34.50	0.30							
113.70	**SPENCER F. BAIRD; April 14, 1953; 1703 GCT; 28°02'N, 117°55'W; sounding, 1800 fm; wind, 340°, force 3; weather, partly cloudy; sea, moderate; wire angle, 14°.**									
0	15.49	33.45	5.84	0	15.49	33.45	5.84	24.69	326	0.00
9	15.49	33.44	5.74	10	15.48	33.44	5.74	24.69	327	0.03
19	15.46	33.44	5.70	20	15.45	33.44	5.70	24.69	326	0.06
33	15.31	33.41	5.83	30	15.39	33.42	5.78	24.69	327	0.10
53	14.60	33.36	6.02	50	14.80	33.37	6.03	24.78	319	0.16
67	12.94	33.34	4.91	75	12.10	33.35	4.48	25.31	269	0.24
82	11.67	33.39	4.10	100	11.04	33.51	3.51	25.63	239	0.30
107	10.88	33.58	3.38	150	10.18	33.94	2.54	26.11	194	0.41
131	10.30	33.81	2.93	200	9.51	34.14	1.90	26.38	169	0.50
160	10.08	33.99	2.36	250	8.93	34.24	1.49	26.59	150	0.58
213	9.34	34.18	1.77	300	8.34	34.29	1.14	26.69	142	0.65
270	8.70	34.27	1.33	400	7.48	34.37	0.59	26.88	125	0.78
318	8.13	34.30	1.01	500	6.47	34.37	0.31	27.02	112	0.90
428	7.22	34.38	0.49	600	5.71	34.37	0.28	27.11	104	1.01
536	6.16	34.37	0.29							
643	5.47	34.37	0.28							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

SPENCER F. BAIRD; April 13, 1953; 1603, 1617 GCT; 28°56'N, 114°41'W; sounding, 40 fm; wind, 290°, force 1; weather, partly cloudy; sea, slight; wire angle, 00°, 00°. 117.26

0	13.42	33.60	5.22	0	13.42	33.60	5.22	25.25	273	0.00
10	13.35	33.60	5.24	10	13.35	33.60	5.24	25.26	272	0.03
				20	13.23	33.60	4.83	25.28	270	0.05
20	13.23	33.60	4.83	30	11.95	33.69	2.79	25.60	240	0.08
25	12.82	33.64	4.25	50	11.52	33.82	1.49	25.78	223	0.13
30	11.95	33.69	2.79							
40	11.64	33.76	1.83							
50	11.52	33.82	1.49							

SPENCER F. BAIRD; April 13, 1953; 1811 GCT; 28°48'N, 114°56'W; sounding, 57 fm; wind, 310°, force 1; weather, partly cloudy; sea, slight; wire angle, 00°. 117.30

0	13.33	33.71	5.90	0	13.33	33.71	5.90	25.35	264	0.00
10	13.17	33.73	5.84	10	13.17	33.73	5.84	25.40	259	0.03
20	12.58	33.71	5.34	20	12.58	33.71	5.34	25.50	250	0.05
30	11.79	33.85	2.78	30	11.79	33.85	2.78	25.76	225	0.08
35	11.38	-	-	50	10.89	34.00	1.09	26.04	199	0.12
50	10.89	34.00	1.09	75	10.92	34.34	1.19	26.30	175	0.16
65	10.70	-	-							
75	10.92	34.34	1.19							

SPENCER F. BAIRD; April 13, 1953; 2035 GCT; 28°38'N, 115°16'W; sounding, 120 fm; wind, 310°, force 2; weather, partly cloudy; sea, slight; wire angle, 04°. 117.35

0	13.29	33.52	5.88	0	13.29	33.52	5.88	25.21	277	0.00
10	12.92	33.57	5.77	10	12.92	33.57	5.77	25.32	266	0.03
25	12.77	33.50	5.60	20	12.80	33.52	5.61	25.31	268	0.05
50	12.75	33.58	5.71	30	12.75	33.50	5.60	25.30	269	0.08
75	12.14	33.58	5.08	50	12.75	33.58	5.71	25.36	263	0.13
100	10.56	33.93	2.39	75	12.14	33.58	5.08	25.48	253	0.20
125	10.28	34.11	2.09	100	10.56	33.93	2.39	26.04	200	0.26
155	9.98	34.37	1.33	150	10.02	34.32	1.50	26.44	163	0.35

SPENCER F. BAIRD; April 13, 1953; 2253 GCT; 28°28'N, 115°36'W; sounding, 515 fm; wind, 320°, force 2; weather, partly cloudy; sea, slight; wire angle, 00°. 117.40

0	14.51	33.48	6.04	0	14.51	33.48	6.04	24.93	304	0.00
10	13.12	33.44	6.15	10	13.12	33.44	6.15	25.18	280	0.03
20	13.01	33.54	6.15	20	13.01	33.54	6.15	25.28	270	0.06
35	11.45	33.29	5.24	30	12.50	33.30	5.89	25.20	279	0.08
50	10.48	33.34	4.55	50	10.48	33.34	4.55	25.60	241	0.14
65	10.28	33.61	3.50	75	10.17	33.59	3.36	25.84	218	0.19
79	10.16	33.59	3.28	100	10.31	33.73	2.37	25.93	210	0.25
98	10.30	33.70	2.47	150	9.64	34.19	1.92	26.40	166	0.34
123	10.35	33.96	1.83	200	9.08	34.18	1.69	26.48	159	0.42
152	9.59	34.19	1.93	250	9.56	34.27	0.54	26.48	161	0.50
201	9.08	34.18	1.67	300	8.75	34.55	0.48	26.83	129	0.58
250	9.56	34.27	0.54	400	7.72	34.48	0.35	26.93	120	0.70
299	8.78	34.55	0.47	500	7.03	34.41	0.30	26.97	117	0.82
404	7.69	34.48	0.35	600	6.00	34.41	0.27	27.11	104	0.93
503	7.00	34.41	0.30							
608	5.91	34.41	0.27							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

117.50 **SPENCER F. BAIRD**; April 14, 1953; 0330 GCT; 28°07'N, 116°17'W; sounding, 2275 fm; wind, 310°, force 2; weather, partly cloudy; sea, slight; wire angle, 10°.

0	15.11	33.35	5.72	0	15.11	33.35	5.72	24.70	325	0.00
10	15.12	33.37	5.80	10	15.12	33.37	5.80	24.71	324	0.03
20	14.93	33.39	5.81	20	14.93	33.39	5.81	24.77	319	0.06
35	14.80	33.44	5.78	30	14.83	33.43	5.71	24.82	315	0.10
49	14.80	33.45	5.73	50	14.80	33.45	5.73	24.84	313	0.16
64	13.10	33.34	5.57	75	12.49	33.35	4.92	25.24	276	0.23
78	12.37	33.36	4.74	100	11.14	33.73	3.26	25.78	224	0.30
97	11.13	33.62	3.58	150	11.23	34.36	1.16	26.26	181	0.40
121	11.29	34.20	1.77	200	11.04	34.44	0.80	26.35	173	0.49
149	11.23	34.36	1.17	250	10.70	34.60	0.55	26.54	156	0.57
196	11.08	34.43	0.85	300	10.08	34.52	0.58	26.58	153	0.64
244	10.76	34.60	0.56	400	9.06	34.56	0.38	26.78	135	0.79
291	10.18	34.52	0.59	500	7.86	34.50	0.26	26.92	123	0.92
392	9.12	34.56	0.39	600	(6.66)	(34.48)	(0.23)	(27.08)	(108)	(1.03)
490	7.99	34.50	0.26							
594	6.72	34.48	0.22							

117.60 **SPENCER F. BAIRD**; April 14, 1953; 0820 GCT; 27°48'N, 116°54'W; sounding, 2000 fm; wind, 320°, force 2; weather, partly cloudy; sea, slight; wire angle, 11°.

0	15.06	33.36	5.80	0	15.06	33.36	5.80	24.72	324	0.00
10	15.08	33.38	5.87	10	15.08	33.38	5.87	24.73	323	0.03
19	14.95	33.40	5.86	20	14.93	33.40	5.85	24.77	319	0.06
34	14.83	33.39	5.84	30	14.87	33.40	5.85	24.79	318	0.10
49	14.87	33.38	5.83	50	14.87	33.38	5.83	24.77	320	0.16
63	14.63	33.40	5.74	75	13.68	33.36	5.91	25.01	298	0.24
78	13.57	33.35	5.91	100	12.94	33.37	5.35	25.16	284	0.31
97	13.08	33.36	5.49	150	10.60	33.88	2.99	26.00	205	0.43
120	11.69	33.52	4.11	200	9.55	34.15	2.39	26.38	169	0.53
148	10.67	33.86	3.02	250	8.98	34.28	1.74	26.58	151	0.61
194	9.61	34.13	2.46	300	8.47	34.32	1.22	26.69	142	0.68
241	9.07	34.27	1.86	400	7.21	34.39	0.61	26.93	120	0.81
287	8.61	34.31	1.34	500	6.39	34.46	0.40	27.10	105	0.92
384	7.37	34.38	0.67							
476	6.58	34.45	0.41							
576	5.88	34.48	0.36							

117.70 **SPENCER F. BAIRD**; April 14, 1953; 1238 GCT; 27°30'N, 117°33.5'W; sounding, 2100 fm; wind, 330°, force 2; weather, partly cloudy; sea, slight; wire angle, 01°.

0	15.74	33.47	5.78	0	15.74	33.47	5.78	24.65	330	0.00
10	15.76	33.47	5.84	10	15.76	33.47	5.84	24.65	331	0.03
20	15.72	33.44	5.99	20	15.72	33.44	5.99	24.63	332	0.07
35	15.65	33.46	5.99	30	15.67	33.45	5.99	24.65	331	0.10
50	15.65	33.48	5.76	50	15.65	33.48	5.76	24.68	329	0.17
65	15.68	33.47	5.75	75	15.69	33.50	5.83	24.68	329	0.25
80	15.26	33.51	5.87	100	12.78	33.39	5.55	25.21	279	0.32
99	12.82	33.39	5.59	150	10.31	33.68	3.88	25.89	215	0.45
123	11.29	33.44	5.07	200	9.08	34.05	3.30	26.38	169	0.54
153	10.20	33.71	3.79	250	8.32	34.07	2.91	26.52	157	0.62
202	9.02	34.05	3.29	300	7.84	34.11	2.36	26.62	148	0.70
250	8.32	34.07	2.91	400	7.23	34.27	0.69	26.83	129	0.84
300	7.84	34.11	2.36	500	6.39	34.26	0.39	26.94	119	0.96
404	7.20	34.27	0.63	600	(5.70)	(34.34)	(0.30)	(27.09)	(106)	(1.08)
503	6.36	34.26	0.38							
593	5.73	34.33	0.30							

120.25 **SPENCER F. BAIRD**; April 13, 1953; 1253 GCT; 28°23'N, 114°15.5'W; sounding, 30 fm; wind, 340°, force 1; weather, clear; sea, smooth; wire angle, 04°.

0	14.32	33.55	6.14	0	14.32	33.55	6.14	25.02	295	0.00
10	14.32	33.56	6.15	10	14.32	33.56	6.15	25.03	294	0.03
20	14.20	33.58	6.07	20	14.20	33.58	6.07	25.07	291	0.06
34	12.32	33.54	4.15	30	12.80	33.55	5.10	25.33	266	0.09
46	11.62	33.83	1.70							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm³/g	ΔD dyn. m

SPENCER F. BAIRD; April 13, 1953; 0924 GCT; 28°15'N, 114°35.5'W; sounding, 50 fm; wind, 350°, force 2; weather, clear; sea, smooth; wire angle, 01°. 120.30

0	13.78	33.55	5.69	0	13.78	33.55	5.69	25.13	284	0.00
10	13.74	33.57	5.65	10	13.74	33.57	5.65	25.16	282	0.03
20	13.75	33.54	5.67	20	13.75	33.54	5.67	25.13	285	0.06
25	13.78	-	-	30	13.78	33.53	5.63	25.12	286	0.08
30	13.78	33.53	5.63	50	10.91	33.64	2.88	25.75	226	0.14
40	12.72	-	-							
50	10.91	33.64	2.88							

SPENCER F. BAIRD; April 13, 1953; 0649 GCT; 28°03'N, 114°54'W; sounding, 40 fm; wind, 340°, force 1; weather, clear; sea, smooth; wire angle, 00°. 120.35

0	13.98	33.65	5.74	0	13.98	33.65	5.74	25.17	281	0.00
10	13.94	33.72	5.54	10	13.94	33.72	5.54	25.23	275	0.03
20	13.84	33.54	5.35	20	13.84	33.54	5.35	25.11	286	0.06
25	13.84	-	-	30	13.86	33.62	5.49	25.17	281	0.08
30	13.86	33.62	5.49	50	11.67	33.67	3.18	25.64	237	0.14
40	13.56	-	-							
50	11.67	33.67	3.18							

SPENCER F. BAIRD; April 13, 1953; 0158 GCT; 27°43'N, 115°33'W; sounding, 1300 fm; wind, 310°, force 3; weather, cloudy; sea, slight; wire angle, 25°. 120.45

0	13.97	33.53	5.72	0	13.97	33.53	5.72	25.08	289	0.00
9	14.07	33.60	5.80	10	14.07	33.60	5.84	25.11	286	0.03
18	13.65	33.51	5.94	20	13.50	33.51	5.94	25.16	282	0.06
32	12.62	33.52	5.41	30	12.86	33.52	5.56	25.30	269	0.09
45	11.38	33.54	4.49	50	11.14	33.54	4.20	25.63	237	0.14
59	10.91	33.51	3.90	75	10.73	33.93	2.60	26.01	202	0.19
72	10.72	33.86	2.84	100	10.97	34.23	1.43	26.20	185	0.24
89	10.93	34.13	1.77	150	11.09	34.55	0.62	26.43	164	0.33
111	10.99	34.33	1.21	200	10.69	34.64	0.39	26.57	152	0.40
137	11.12	34.48	0.79	250	9.95	34.57	0.44	26.64	146	0.48
180	10.90	34.66	0.41	300	9.41	34.55	0.43	26.72	139	0.55
224	10.34	34.59	0.39	400	8.47	34.51	0.30	26.84	129	0.68
267	9.76	34.56	0.49	500	7.25	34.49	0.29	27.00	114	0.81
361	8.82	34.52	0.30							
455	7.84	34.50	0.30							
558	6.40	34.48	0.26							

SPENCER F. BAIRD; April 12, 1953; 2235 GCT; 27°34'N, 115°52.5'W; sounding, 2200 fm; wind, 350°, force 2; weather, partly cloudy; sea, slight; wire angle, 07°. 120.50

0	15.80	33.32	5.76	0	15.80	33.32	5.76	24.52	342	0.00
10	14.73	33.26	5.80	10	14.73	33.26	5.80	24.71	324	0.03
25	14.21	33.30	5.90	20	14.41	33.28	5.88	24.79	317	0.06
49	12.88	33.35	5.35	30	14.00	33.31	5.88	24.90	307	0.10
73	11.30	33.52	3.62	50	12.73	33.36	5.30	25.20	279	0.16
96	11.32	34.05	1.95	75	11.30	33.55	3.46	25.61	240	0.22
148	10.86	34.39	1.20	100	11.31	34.12	1.82	26.05	199	0.28
196	10.10	34.38	1.10	150	10.82	34.39	1.20	26.35	171	0.37
243	9.75	34.53	0.46	200	10.07	34.38	1.09	26.48	161	0.45
291	9.02	34.51	0.40	250	9.69	34.53	0.44	26.66	144	0.53
391	7.52	34.39	0.35	300	8.87	34.50	0.40	26.77	134	0.60
488	6.84	34.44	0.30	400	7.46	34.39	0.35	26.89	123	0.72
589	5.92	34.44	0.28	500	6.74	34.44	0.30	27.03	111	0.84
788	4.78	34.50	0.42	600	5.85	34.44	0.29	27.15	100	0.95
983	4.05	34.56	0.57	700	5.21	34.47	0.36	27.25	91	1.04
1185	3.54	34.60	0.73	800	4.72	34.50	0.43	27.33	84	1.13
				1000	3.99	34.56	0.59	27.46	72	1.29

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
120.60	SPENCER F. BAIRD; April 12, 1953; 1724 GCT; 27°12'N, 116°29.5'W; sounding, 2050 fm; wind, 360°, force 2; weather, clear; sea, slight; wire angle, 14°.									
0	14.62	33.44	6.02	0	14.62	33.44	6.02	24.87	309	0.00
10	14.68	33.32	5.92	10	14.68	33.32	5.92	24.81	315	0.03
20	14.54	33.39	5.72	20	14.54	33.39	5.72	24.85	311	0.06
34	14.40	33.30	5.93	30	14.44	33.33	5.89	24.83	314	0.09
48	14.30	33.35	5.79	50	14.29	33.35	5.76	24.87	310	0.16
62	14.14	33.32	5.70	75	13.80	33.33	6.30	24.96	302	0.23
76	13.75	33.33	6.30	100	11.75	33.33	4.43	25.36	265	0.30
94	12.08	33.32	4.87	150	10.10	33.91	2.74	26.10	195	0.42
116	11.13	33.57	3.68	200	9.52	34.20	1.92	26.43	165	0.51
143	10.18	33.85	2.91	250	8.87	34.26	1.43	26.58	151	0.59
187	9.70	34.17	2.03	300	8.55	34.33	0.90	26.68	142	0.66
233	8.97	34.24	1.66	400	7.38	34.39	0.48	26.91	122	0.79
278	8.72	34.30	1.06	500	6.60	34.41	0.31	27.03	111	0.91
375	7.66	34.39	0.54							
469	6.75	34.39	0.35							
570	6.32	34.49	0.26							
120.70	SPENCER F. BAIRD; April 12, 1953; 1223 GCT; 26°59'N, 117°17'W; sounding, 2150 fm; wind, 360°, force 3; weather, clear; sea, moderate; wire angle, 18°.									
0	15.92	33.55	5.57	0	15.92	33.55	5.57	24.67	328	0.00
10	15.96	33.55	5.49	10	15.96	33.55	5.49	24.66	330	0.03
24	15.93	33.59	5.72	20	15.93	33.58	5.70	24.69	326	0.07
48	15.96	33.59	5.56	30	15.93	33.59	5.71	24.70	326	0.10
71	15.98	33.63	5.47	50	15.97	33.59	5.55	24.69	328	0.16
94	13.84	33.55	4.79	75	15.99	33.63	5.44	24.72	326	0.24
143	10.51	33.82	3.50	100	13.18	33.55	4.56	25.25	275	0.32
187	9.92	33.96	2.59	150	10.39	33.85	3.37	26.01	204	0.44
231	9.38	34.23	2.04	200	9.77	34.02	2.40	26.25	182	0.54
274	8.73	34.30	1.62	250	9.10	34.27	1.86	26.55	154	0.62
367	7.59	34.30	0.87	300	8.35	34.30	1.41	26.69	141	0.70
457	6.86	34.34	0.46	400	7.30	34.31	0.68	26.85	127	0.83
550	6.03	34.38	0.32	500	6.47	34.36	0.38	27.01	113	0.95
736	4.98	34.51	0.47	600	5.67	34.41	0.38	27.15	100	1.06
921	4.33	34.56	0.47	700	5.11	34.49	0.43	27.28	88	1.15
1117	3.78	34.56	0.68	800	4.73	34.54	0.48	27.36	81	1.23
				1000	4.10	34.56	0.55	27.45	74	1.39
120.80	SPENCER F. BAIRD; April 12, 1953; 0715 GCT; 26°37'N, 117°51'W; sounding, 2000 fm; wind, 310°, force 2; weather, clear; sea, slight; wire angle, 11°.									
0	16.22	33.62	5.56	0	16.22	33.62	5.56	24.66	329	0.00
10	16.25	33.64	5.51	10	16.25	33.64	5.51	24.67	329	0.03
20	16.22	33.64	5.46	20	16.22	33.64	5.46	24.67	328	0.07
34	16.24	33.66	5.34	30	16.23	33.66	5.36	24.69	328	0.10
53	16.20	33.66	5.65	50	16.21	33.66	5.62	24.69	328	0.16
67	16.19	33.66	5.62	75	16.18	33.61	5.59	24.66	331	0.25
82	15.21	33.56	5.53	100	12.95	33.60	4.32	25.34	267	0.32
104	12.64	33.61	4.02	150	10.94	34.06	2.31	26.07	198	0.44
127	11.57	33.85	3.02	200	10.27	34.30	1.61	26.38	170	0.53
155	10.84	34.09	2.21	250	9.59	34.43	0.91	26.60	150	0.61
205	10.20	34.31	1.54	300	8.93	34.45	0.69	26.72	139	0.68
260	9.45	34.44	0.85	400	7.90	34.45	0.36	26.88	125	0.81
307	8.86	34.45	0.66	500	6.89	34.45	0.28	27.02	112	0.93
416	7.75	34.45	0.32	600	5.95	34.47	0.31	27.16	99	1.04
523	6.64	34.45	0.28							
632	5.66	34.48	0.33							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
SPENCER F. BAIRD; April 12, 1953; 0203 GCT; 26°16'N, 118°31'W; sounding, 2280 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 31°.										120.90
0	16.20	33.63	5.78	0	16.20	33.63	5.78	24.67	328	0.00
8	16.22	33.60	5.54	10	16.22	33.60	5.51	24.64	331	0.03
21	16.14	33.57	5.47	20	16.15	33.57	5.48	24.63	332	0.07
47	16.12	33.64	5.59	30	16.13	33.59	5.50	24.65	330	0.10
69	15.92	33.61	5.48	50	16.12	33.64	5.58	24.70	327	0.16
94	13.00	33.47	4.73	75	15.86	33.60	5.38	24.72	325	0.25
140	10.98	33.84	3.10	100	12.32	33.47	4.55	25.36	265	0.32
186	10.49	34.20	1.90	150	10.85	33.94	2.75	26.00	205	0.44
233	9.75	34.33	1.25	200	10.29	34.25	1.70	26.34	174	0.53
273	9.48	34.45	0.75	250	9.61	34.38	0.97	26.55	154	0.61
365	8.40	34.45	0.40	300	9.21	34.45	0.61	26.67	144	0.69
456	7.44	34.43	0.27	400	8.02	34.44	0.32	26.85	128	0.82
544	6.22	34.41	0.29	500	6.84	34.42	0.29	27.01	114	0.94
726	5.08	34.48	0.33	600	5.79	34.43	0.31	27.15	100	1.05
914	4.40	34.62r	0.42	700	5.19	34.47	0.33	27.25	91	1.15
1104	3.80	34.56	0.65	800	4.78	34.51	0.38	27.33	84	1.24
				1000	4.14	34.55	0.52	27.44	75	1.39
SPENCER F. BAIRD; April 11, 1953; 0113 GCT; 27°24'N, 114°40'W; sounding, 34 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 13°.										123.37
0	12.28	34.03	3.34	0	12.28	34.03	3.34	25.80	220	0.00
10	12.24	34.05	3.25	10	12.24	34.05	3.25	25.83	218	0.02
19	12.14	34.06	2.80	20	12.09	34.06	2.57	25.86	215	0.04
29	11.73	34.08	2.10	30	11.74	34.08	2.02	25.94	208	0.06
48	11.78	34.16	1.51							
SPENCER F. BAIRD; April 11, 1953; 0310 GCT; 27°18'N, 114°51'W; sounding, 240 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 48°.										123.40
0	13.62	33.70	6.01	0	13.62	33.70	6.01	25.28	270	0.00
7	13.61	33.67	5.89	10	13.62	33.67	5.84	25.26	272	0.03
17	13.62	33.69	5.77	20	12.63	33.69	5.68	25.27	271	0.05
34	12.18	33.62	3.93	30	13.25	33.63	4.36	25.30	269	0.08
51	11.23	33.91	2.54	50	11.25	33.87	2.64	25.87	215	0.13
67	11.34	34.16	1.77	75	11.43	34.28	1.28	26.16	188	0.18
101	11.58	34.53	0.48	100	11.57	34.52	0.48	26.32	174	0.22
134	11.42	34.60	0.50	150	11.24	34.60	0.48	26.44	163	0.31
168	10.94	34.60	0.42	200	10.43	34.56	0.52	26.55	153	0.39
207	10.35	34.56	0.51	250	9.98	34.59	0.36	26.66	145	0.46
254	9.94	34.59	0.34	300	9.60	34.54	0.33	26.68	143	0.54
300	9.60	34.54	0.33							
SPENCER F. BAIRD; April 11, 1953; 0820 GCT; 26°58'N, 115°30.5'W; sounding, 1750 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 30°.										123.50
0	15.69	33.54	5.18	0	15.69	33.54	5.18	24.72	324	0.00
8	15.74	33.57	5.53	10	15.74	33.57	5.53	24.73	323	0.03
17	15.71	33.56	5.53	20	15.71	33.56	5.51	24.73	323	0.06
30	15.74	33.63	5.42	30	15.74	33.63	5.42	24.77	319	0.10
48	15.74	33.57	5.48	50	15.74	33.57	5.50	24.73	324	0.16
60	15.53	33.55	5.55	75	14.87	33.55	5.32	24.90	308	0.24
74	15.00	33.55	5.34	100	12.61	33.44	4.05	25.28	272	0.31
95	12.90	33.44	4.36	150	11.01	34.12	2.10	26.11	195	0.43
117	12.01	33.78	3.17	200	10.19	34.35	1.46	26.43	165	0.52
143	11.20	34.07	2.20	250	9.87	34.46	0.78	26.57	152	0.60
190	10.24	34.32	1.60	300	9.33	34.52	0.48	26.71	140	0.67
242	9.92	34.44	0.83	400	8.19	34.48	0.34	26.86	127	0.80
284	9.53	34.52	0.53	500	6.95	34.43	0.33	27.00	114	0.93
383	8.40	34.49	0.33	600	(5.91)	(34.38)		(27.10)	(105)	(1.04)
482	7.12	34.44	0.33							
589	6.02	34.39	0.26							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
123.60	SPENCER F. BAIRD; April 11, 1953; 1410 GCT; 26°37'N, 116°13'W; sounding, 2100 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 34°.									
0	16.16	33.66	5.47	0	16.16	33.66	5.47	24.70	325	0.00
8	16.20	33.72	5.43	10	16.20	33.72	5.44	24.74	322	0.03
20	16.18	33.74	5.51	20	16.18	33.74	5.51	24.76	320	0.06
33	16.19	33.83	5.80	30	16.19	33.83	5.79	24.82	314	0.10
50	16.20	33.74	5.42	50	16.20	33.74	5.42	24.75	322	0.16
62	16.19	33.72	5.47	75	16.19	33.67	5.07	24.70	327	0.24
79	15.04	33.66	4.87	100	12.11	33.59	3.79	25.49	252	0.31
99	12.18	33.59	3.87	150	10.44	34.01	2.73	26.12	193	0.42
124	11.22	33.81	3.16	200	9.74	34.29	1.91	26.46	162	0.51
150	10.44	34.01	2.73	250	9.48	34.43	1.03	26.61	148	0.59
200	9.74	34.29	1.91	300	9.00	34.43	0.64	26.69	142	0.66
250	9.48	34.43	1.03	400	7.62	34.44	0.52	26.91	122	0.80
300	9.00	34.43	0.64	500	6.72	34.44	0.34	27.04	110	0.91
398	7.68	34.44	0.51	600	6.03	34.44	0.33	27.13	103	1.02
505	6.69	-	0.33							
615	5.94	34.44	0.33							
127.34	SPENCER F. BAIRD; April 10, 1953; 2034 GCT; 26°55'N, 114°06'W; sounding, 45 fm; wind, 330°, force 3; weather, clear; sea, moderate; wire angle, 04°.									
0	13.24	33.92	5.33	0	13.24	33.92	5.33	25.53	246	0.00
10	12.81	33.89	4.48	10	12.81	33.89	4.48	25.59	241	0.02
20	12.73	33.93	3.80	20	12.73	33.93	3.80	25.64	236	0.05
30	12.52	34.00	2.91	30	12.52	34.00	2.91	25.73	228	0.07
50	12.02	34.30	1.04	50	12.02	34.30	1.04	26.06	197	0.11
127.40	SPENCER F. BAIRD; April 10, 1953; 1733 GCT; 26°43'N, 114°28'W; sounding, 1800 fm; wind, 340°, force 3; weather, clear; sea, rough; wire angle, 20°.									
0	14.42	33.42	5.81	0	14.42	33.42	5.81	24.90	306	0.00
9	14.44	33.44	5.79	10	14.44	33.44	5.78	24.91	305	0.03
18	14.39	33.41	5.76	20	14.36	33.41	5.76	24.90	306	0.06
32	14.23	33.42	5.67	30	14.28	33.42	5.68	24.93	304	0.09
41	13.66	33.43	5.65	50	13.03	33.46	5.52	25.22	277	0.15
53	12.85	33.54	5.16	75	11.00	33.64	3.65	25.74	228	0.21
65	11.74	33.58	4.27	100	10.99	33.88	2.50	25.93	211	0.27
84	10.80	33.71	3.19	150	10.74	34.39	1.40	26.37	170	0.36
104	11.00	33.93	2.46	200	10.48	34.52	0.71	26.51	157	0.44
127	10.64	34.07	2.30	250	9.92	34.59	0.49	26.67	144	0.52
170	10.80	34.50	0.88	300	9.31	34.59	0.33	26.77	135	0.59
217	10.28	34.53	0.63	400	8.16	34.52	0.26	26.89	124	0.72
255	9.86	34.60	0.47	500	7.04	34.47	0.26	27.02	113	0.84
347	8.74	34.56	0.27							
438	7.77	34.50	0.26							
536	6.62	34.46	0.24							
127.50	SPENCER F. BAIRD; April 10, 1953; 1216 GCT; 26°24'N, 115°07'W; sounding, 2100 fm; wind, 350°, force 4; weather, clear; sea, rough; wire angle, 25°.									
0	15.66	33.56	5.57	0	15.66	33.56	5.57	24.74	322	0.00
9	15.67	33.61	5.54	10	15.66	33.61	5.55	24.78	318	0.03
18	15.65	33.58	5.55	20	15.65	33.57	5.55	24.75	321	0.06
32	15.66	33.56	5.55	30	15.66	33.56	5.55	24.74	322	0.10
49	15.70	33.57	5.53	50	15.70	33.57	5.54	24.74	323	0.16
63	15.67	33.59	5.55	75	14.80	33.66	5.00	25.00	298	0.24
76	14.58	33.66	5.00	100	11.99	33.58	3.71	25.51	250	0.31
97	12.18	33.58	3.85	150	10.83	34.07	2.19	26.10	195	0.42
118	11.40	33.72	3.19	200	10.52	34.41	1.09	26.42	166	0.51
144	10.88	34.01	2.31	250	10.21	34.51	0.54	26.55	154	0.59
192	10.54	34.38	1.24	300	9.55	34.53	0.53	26.68	143	0.66
244	10.26	34.51	0.54	400	8.23	34.49	0.26	26.86	127	0.80
288	9.72	34.53	0.53	500	7.21	34.49	0.21	27.01	114	0.92
390	8.35	34.49	0.27	600	(6.29)	(34.48)	(0.18)	(27.13)	(103)	(1.03)
490	7.30	34.49	0.21							
594	6.34	34.48	0.18							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

SPENCER F. BAIRD; April 10, 1953; 0654 GCT; 26°04'N, 115°47'W; sounding, 2050 fm; wind, 350°, force 4; weather, clear; sea, rough; wire angle, 23°. 127.60

0	16.80	33.90	5.53	0	16.80	33.90	5.53	24.74	322	0.00
9	16.81	33.90	5.51	10	16.81	33.90	5.52	24.74	322	0.03
18	16.76	33.95	5.59	20	16.76	33.95	5.57	24.79	318	0.06
32	16.79	33.92	5.48	30	16.78	33.92	5.49	24.76	321	0.10
48	16.82	33.91	5.45	50	16.85	33.91	5.46	24.73	324	0.16
60	15.76	33.74	5.50	75	14.71	33.61	5.45	24.98	300	0.24
71	15.08	33.63	5.48	100	11.92	33.60	3.83	25.54	248	0.31
90	12.84	33.56	4.41	150	10.38	34.00	2.63	26.13	193	0.42
107	11.62	33.68	3.39	200	10.06	34.33	1.50	26.44	164	0.51
128	10.94	33.90	2.85	250	9.72	34.46	0.81	26.60	150	0.58
169	10.10	34.10	2.45	300	9.20	34.44	0.49	26.67	144	0.66
213	10.02	34.38	1.21	400	7.92	34.46	0.37	26.88	125	0.79
252	9.68	34.46	0.79	500	6.72	34.42	0.34	27.02	112	0.91
343	8.68	34.44	0.39							
436	7.46	34.47	0.38							
533	6.34	34.39	0.31							

SPENCER F. BAIRD; April 9, 1953; 0841 GCT; 26°30.5'N, 113°29.5'W; sounding, 40 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 13°. 130.30

0	15.40	33.89	5.62	0	15.40	33.89	5.62	25.05	292	0.00
10	15.42	33.85	5.73	10	15.42	33.85	5.73	25.01	296	0.03
20	15.29	33.87	5.50	20	15.29	33.87	5.50	25.06	292	0.06
30	14.57	33.81	4.97	30	14.57	33.81	4.97	25.17	282	0.09
49	12.31	33.99	2.51							

SPENCER F. BAIRD; April 9, 1953; 1103 GCT; 26°19'N, 113°48.5'W; sounding, 150 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 17°. 130.35

0	16.76	33.93	5.39	0	16.76	33.93	5.39	24.77	318	0.00
10	16.80	34.07	5.39	10	16.80	34.07	5.39	24.87	310	0.03
24	16.75	33.96	5.36	20	16.78	34.02	5.37	24.83	313	0.06
48	14.33	33.74	4.42	30	16.67	33.86	5.30	24.74	322	0.09
72	12.46	34.12	2.33	50	13.98	33.74	4.21	25.24	275	0.15
95	11.76	34.34	1.62	75	12.34	34.16	2.24	25.89	214	0.22
147	11.56	34.60	0.64	100	11.71	34.38	1.50	26.18	187	0.26
194	11.10	34.72	0.28	150	11.53	34.61	0.61	26.39	168	0.35
				200	(11.03)	(34.73)	(0.27)	(26.58)	(151)	(0.43)

SPENCER F. BAIRD; April 9, 1953; 1340 GCT; 26°10'N, 114°06'W; sounding, 1200 fm; wind, 310°, force 3; weather, cloudy; sea, very rough; wire angle, 25°. 130.40

0	16.46	33.90	5.57	0	16.46	33.90	5.57	24.82	314	0.00
9	16.48	33.90	5.51	10	16.48	33.90	5.52	24.81	315	0.03
23	16.45	33.89	5.54	20	16.46	33.90	5.53	24.82	315	0.06
50	14.02	33.67	4.83	30	16.31	33.84	5.52	24.81	316	0.09
73	12.34	34.00	2.54	50	14.02	33.67	4.83	25.18	281	0.15
100	12.37	34.38	1.22	75	12.34	34.04	2.30	25.80	222	0.22
150	11.44	34.53	1.03	100	12.37	34.38	1.22	26.06	199	0.27
198	11.01	34.66	0.48	150	11.44	34.53	1.03	26.35	172	0.36
252	10.25	34.61	0.44	200	10.99	34.66	0.46	26.53	156	0.44
297	9.66	34.64	0.30	250	10.27	34.61	0.44	26.62	148	0.52
399	8.38	34.54	0.34	300	9.61	34.64	0.30	26.76	136	0.59
498	7.22	34.50	0.37	400	8.37	34.54	0.34	26.88	126	0.72
598	6.23	34.46	0.28	500	7.20	34.50	0.37	27.02	113	0.84
796	5.13	34.46	0.45	600	6.22	34.46	0.28	27.12	104	0.95
1017	4.12	34.52	0.51	700	5.60	34.46	0.34	27.20	97	1.05
1219	3.51	34.57	0.80	800	5.10	34.46	0.46	27.26	91	1.14
				1000	4.16	34.52	0.51	27.41	77	1.31

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
1305.0	SPENCER F. BAIRD; April 9, 1953; 1928 GCT; 25°49'N, 114°46'W; sounding, 1980 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 34°.									
0	15.79	33.54	5.80	0	15.79	33.54	5.80	24.69	326	0.00
8	15.76	33.52	5.86	10	15.76	33.52	5.83	24.68	327	0.03
17	15.72	33.52	5.60	20	15.71	33.52	5.60	24.70	326	0.06
29	15.62	33.55	5.66	30	15.62	33.57	5.65	24.75	321	0.10
46	15.28	33.65	5.35	50	14.99	33.65	5.38	24.95	302	0.16
58	14.64	33.55	5.43	75	14.51	33.61	5.13	25.03	296	0.24
70	14.59	33.62	5.30	100	12.13	33.70	3.74	25.58	244	0.30
86	13.33	33.55	4.50	150	11.39	34.28	1.28	26.16	190	0.41
103	11.89	33.74	3.59	200	10.89	34.51	0.71	26.43	165	0.50
122	11.14	33.91	2.76	250	10.21	34.52	0.50	26.56	154	0.58
157	11.42	34.34	1.12	300	9.64	34.51	0.37	26.65	146	0.65
197	10.93	34.51	0.72	400	8.21	34.48	0.42	26.85	128	0.79
231	10.45	34.52	0.59	500	(7.05)	(34.46)	(0.22)	(27.01)	(114)	(0.91)
315	9.44	34.51	0.35							
402	8.18	34.48	0.41							
498	7.08	34.46	0.21							
1306.0	SPENCER F. BAIRD; April 10, 1953; 0106 GCT; 25°22'N, 115°34'W; sounding, 2100 fm; wind, 350°, force 4; weather, partly cloudy; sea, rough; wire angle, 29°.									
0	16.95	33.75	5.72	0	16.95	33.75	5.72	24.59	336	0.00
8	16.96	33.74	5.74	10	16.97	33.74	5.73	24.58	337	0.03
22	16.91	33.77	5.51	20	16.92	33.76	5.53	24.60	335	0.07
48	16.90	33.81	5.60	30	16.90	33.78	5.54	24.62	334	0.10
68	16.80	33.76	5.65	50	16.90	33.81	5.62	24.65	332	0.17
92	15.21	33.61	4.84	75	16.73	33.71	5.57	24.61	336	0.25
136	11.04	33.64	3.71	100	14.40	33.61	4.63	25.05	295	0.33
180	10.04	34.10	2.32	150	10.60	33.76	3.27	25.90	214	0.46
228	9.82	34.35	1.19	200	9.94	34.24	1.78	26.39	169	0.55
269	9.52	-	0.66	250	9.67	34.39	0.83	26.55	154	0.63
364	8.42	34.44	0.47	300	9.17	34.41	0.58	26.65	146	0.71
455	7.52	34.46	0.26	400	8.04	34.45	0.37	26.86	127	0.84
548	6.82	34.48	0.18	500	7.15	34.47	0.21	27.00	114	0.97
734	5.23	34.45	0.30	600	6.39	34.47	0.18	27.10	105	1.08
929	4.48	34.50	0.39	700	5.47	34.45	0.28	27.21	96	1.18
1123	3.90	34.59	0.57	800	4.91	34.46	0.24	27.28	89	1.27
				1000	4.26	34.53	0.44	27.41	78	1.44
1332.5	SPENCER F. BAIRD; April 9, 1953; 0403 GCT; 26°05'N, 112°49'W; sounding, 45 fm; wind, 290°, force 4; weather, clear; sea, moderate; wire angle, 07°.									
0	15.76	33.83	5.69	0	15.76	33.83	5.69	24.92	304	0.00
10	15.81	33.87	5.69	10	15.81	33.87	5.69	24.94	302	0.03
20	15.77	33.90	5.65	20	15.77	33.90	5.65	24.97	300	0.06
30	15.57	33.90	5.51	30	15.57	33.90	5.51	25.02	296	0.09
50	12.84	34.07	2.31	50	12.84	34.07	2.31	25.72	229	0.14
1333.0	SPENCER F. BAIRD; April 9, 1953; 0143 GCT; 25°54.5'N, 113°07.5'W; sounding, 95 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 12°.									
0	16.40	33.81	5.75	0	16.40	33.81	5.75	24.76	319	0.00
10	16.41	33.82	5.47	10	16.41	33.82	5.47	24.77	319	0.03
20	16.15	33.87	5.60	20	16.15	33.87	5.60	24.86	310	0.06
30	16.08	33.82	5.63	30	16.08	33.82	5.63	24.84	312	0.10
49	14.44	33.67	5.03	50	14.39	33.67	4.94	25.10	289	0.16
73	12.75	34.05	1.80	75	12.71	34.07	1.60	25.75	227	0.22
98	12.20	34.33	0.74	100	12.16	34.35	0.73	26.07	197	0.27
122	11.80	34.49	0.63							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

SPENCER F. BAIRD; April 8, 1953; 2041 GCT; 25°35'N, 113°47'W; sounding, 1740 fm; wind, 310°, force 3; weather, cloudy; sea, rough; wire angle, 10°. 13340

0	16.73	33.87	5.47	0	16.73	33.87	5.47	24.73	322	0.00
10	16.69	33.81	5.44	10	16.69	33.81	5.44	24.69	326	0.03
20	16.63	33.90	5.33	20	16.63	33.90	5.33	24.78	318	0.06
35	15.76	33.75	5.53	30	16.23	33.84	5.49	24.82	314	0.10
55	14.04	33.65	4.70	50	14.50	33.66	4.99	25.07	292	0.16
69	13.09	33.67	3.87	75	12.62	33.70	3.64	25.48	253	0.22
84	12.50	33.75	3.37	100	12.29	33.95	2.49	25.74	229	0.28
108	12.22	34.12	2.02	150	11.91	34.47	0.87	26.21	185	0.39
132	12.10	34.45	0.99	200	11.20	34.59	0.54	26.44	164	0.48
162	11.73	34.49	0.81	250	10.29	34.58	0.48	26.59	151	0.56
215	10.96	34.62	0.46	300	9.52	34.55	0.37	26.70	141	0.63
273	9.88	34.56	0.48	400	8.40	34.50	0.27	26.84	129	0.76
322	9.26	34.54	0.29	500	7.26	34.45	0.27	26.97	117	0.89
434	8.04	34.48	0.26	600	6.30	34.46	0.26	27.11	105	1.00
542	6.78	34.44	0.27							
650	5.90	34.48	0.26							

SPENCER F. BAIRD; April 8, 1953; 1548 GCT; 25°15'N, 114°20'W; sounding, 2000+ fm; wind, 330°, force 3; weather, overcast; sea, rough; wire angle, 20°. 13350

0	17.60	34.00	5.28	0	17.60	34.00	5.28	24.62	332	0.00
10	17.59	33.96	5.25	10	17.59	33.96	5.25	24.60	335	0.03
20	17.57	34.00	5.21	20	17.57	34.00	5.21	24.63	332	0.07
34	17.58	33.96	5.22	30	17.58	33.98	5.22	24.61	334	0.10
48	17.33	33.94	5.33	50	17.28	33.94	5.33	24.65	331	0.17
62	16.87	33.90	5.32	75	14.30	33.59	4.80	25.06	293	0.24
77	13.94	33.59	4.59	100	11.82	33.72	3.14	25.65	237	0.31
96	12.02	33.65	3.41	150	10.55	34.13	1.83	26.20	186	0.42
119	11.32	34.00	2.34	200	10.66	34.44	0.80	26.42	166	0.50
148	10.55	34.12	1.90	250	9.94	34.46	0.54	26.56	154	0.58
195	10.66	34.43	0.84	300	9.33	34.55	0.30	26.73	138	0.66
242	10.05	34.45	0.59	400	8.26	34.47	0.27	26.84	129	0.79
290	9.44	34.55	0.30	500	7.20	34.48	0.24	27.00	114	0.91
391	8.36	34.47	0.28	600	(6.38)	(34.47)	(0.20)	(27.11)	(105)	(1.02)
488	7.32	34.48	0.25							
592	6.43	34.47	0.20							

SPENCER F. BAIRD; April 8, 1953; 1043 GCT; 24°55'N, 115°01'W; sounding, 2150 fm; wind, 310°, force 2; weather, overcast; sea, moderate; wire angle, 13°. 13360

0	17.36	33.96	5.31	0	17.36	33.96	5.31	24.65	330	0.00
10	17.36	33.94	5.26	10	17.36	33.94	5.26	24.64	332	0.03
20	17.23	33.90	5.41	20	17.23	33.90	5.41	24.64	332	0.07
34	16.43	33.74	5.74	30	16.57	33.75	5.72	24.68	328	0.10
48	16.31	33.82	5.17	50	16.26	33.82	5.17	24.80	317	0.16
63	15.02	33.58	5.53	75	14.77	33.65	4.10	25.00	298	0.24
77	14.72	33.65	3.88	100	11.95	33.60	2.59	25.53	248	0.31
95	12.28	33.60	2.79	150	10.90	34.11	1.19	26.12	193	0.42
119	11.36	33.87	2.01	200	10.52	34.34	0.55	26.37	171	0.51
146	10.94	34.09	1.27	250	10.40	34.52	0.55	26.53	157	0.59
191	10.54	34.30	0.57	300	9.41	34.46	0.30	26.65	146	0.67
236	10.52	34.54	0.59	400	8.25	34.44	0.18	26.82	131	0.81
281	9.70	34.47	0.37	500	7.26	(34.50)	0.19	(27.01)	(114)	(0.93)
377	8.48	34.43	0.15							
472	7.58	34.50	0.20							
574	6.30	34.34r	0.15							

SIO

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OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m
137.23	SPENCER F. BAIRD; April 7, 1953; 1228 GCT; 25°33'N, 112°18'W; sounding, 40 fm; wind, 290°, force 2; weather, overcast; sea, smooth; wire angle, 05°.									
0	15.95	33.92	5.65	0	15.95	33.92	5.65	24.95	302	0.00
10	15.96	33.90	5.65	10	15.96	33.90	5.65	24.93	304	0.03
20	15.44	33.89	5.02	20	15.44	33.89	5.02	25.04	293	0.06
30	15.16	34.04	3.93	30	15.16	34.04	3.93	25.22	277	0.09
50	13.45	34.19	1.04	50	13.45	34.19	1.04	25.69	232	0.14
137.30	SPENCER F. BAIRD; April 7, 1953; 1530 GCT; 25°20'N, 112°46'W; sounding, 155 fm; wind, 290°, force 2; weather, overcast; sea, moderate; wire angle, 10°.									
0	17.18	34.00	5.36	0	17.18	34.00	5.36	24.72	323	0.00
10	17.20	33.95	5.36	10	17.20	33.95	5.36	24.68	327	0.03
25	17.13	33.97	5.32	20	17.17	33.96	5.34	24.70	326	0.06
49	15.41	33.94	3.89	30	17.07	33.97	5.26	24.73	324	0.10
74	13.68	34.17	2.15	50	15.30	33.94	3.77	25.11	288	0.16
98	13.11	34.40	1.04	75	13.63	34.17	2.00	25.64	238	0.22
153	11.81	34.61	0.36	100	13.05	34.41	0.99	25.95	209	0.28
202	11.00	34.66	0.16	150	11.88	34.60	0.38	26.32	175	0.38
				200	11.01	34.66	0.16	26.53	156	0.46
137.40	SPENCER F. BAIRD; April 7, 1953; 2023 GCT; 25°03'N, 113°23'W; sounding, 1600 fm; wind, 310°, force 2; weather, cloudy; sea, moderate; wire angle, 13°.									
0	17.78	34.07	5.10	0	17.78	34.07	5.10	24.63	332	0.00
10	17.64	34.06	5.16	10	17.64	34.06	5.16	24.66	329	0.03
20	17.55	34.05	5.31	20	17.55	34.05	5.31	24.67	328	0.07
34	17.51	34.05	5.25	30	17.52	34.05	5.27	24.68	328	0.10
48	17.07	33.95	5.40	50	17.01	33.95	5.39	24.73	324	0.16
63	16.67	34.05	4.67	75	14.35	34.09	2.57	25.43	258	0.24
77	14.14	34.10	2.46	100	13.03	34.33	1.39	25.89	215	0.30
96	13.14	34.30	1.52	150	11.95	34.64	0.63	26.34	173	0.39
119	12.59	34.42	0.95	200	11.38	34.74	0.28	26.52	157	0.48
148	11.98	34.63	0.66	250	10.66	34.68	0.28	26.61	150	0.55
195	11.44	34.74	0.29	300	9.92	34.60	0.17	26.67	144	0.62
242	10.80	34.69	0.29	400	8.70	34.56	0.16	26.84	129	0.76
290	10.04	34.61	0.18	500	7.19	34.48	0.23	27.00	114	0.88
391	8.84	34.57	0.15	600	(6.26)	(34.46)	(0.20)	(27.12)	(104)	(0.99)
488	7.32	34.48	0.23							
591	6.34	34.46	0.20							
137.50	SPENCER F. BAIRD; April 8, 1953; 0113 GCT; 24°39.5'N, 114°03'W; sounding, 2050 fm; wind, 300°, force 3; weather, overcast; sea, rough; wire angle, 15°.									
0	17.53	33.92	5.24	0	17.53	33.92	5.24	24.58	337	0.00
10	17.54	33.92	5.32	10	17.54	33.92	5.32	24.58	337	0.03
19	17.40	33.91	5.19	20	17.40	33.91	5.19	24.60	335	0.07
33	17.46	33.91	5.33	30	17.46	33.91	5.30	24.59	337	0.10
48	17.43	33.91	5.47	50	17.41	33.91	5.46	24.60	336	0.17
62	17.22	33.89	5.46	75	14.14	33.54	4.80	25.05	294	0.25
77	13.82	33.54	4.74	100	11.65	33.69	3.60	25.66	236	0.31
95	12.05	33.65	3.73	150	11.05	34.22	1.50	26.18	188	0.42
119	10.62	33.80	3.23	200	10.49	34.41	0.90	26.43	165	0.51
148	11.05	34.20	1.59	250	9.90	34.48	0.50	26.58	152	0.59
195	10.54	34.40	0.97	300	9.24	34.45	0.36	26.67	144	0.66
242	10.00	34.48	0.54	400	8.30	34.48	0.27	26.84	129	0.80
290	9.34	34.45	0.39	500	7.16	34.45	0.20	26.98	116	0.92
392	8.42	34.48	0.26	600	(6.38)	(34.49)	(0.35)	(27.12)	(104)	(1.03)
489	7.25	34.45	0.20							
593	6.42	34.49	0.34							

OBSERVED				INTERPOLATED				COMPUTED		
Z m	T °C	S ‰	O_2 ml/L	Z m	T °C	S ‰	O_2 ml/L	σ_t g/L	δ 10^{-5} cm^3/g	ΔD dyn. m

137.60

SPENCER F. BAIRD; April 8, 1953; 0603 GCT; 24°20'N, 114°39.5'W; sounding, 2100 fm; wind, 310°, force 2; weather, overcast; sea, moderate; wire angle, 13°.

0	17.47	33.94	5.23	0	17.47	33.94	5.23	24.61	334	0.00
10	17.48	33.96	5.40	10	17.48	33.96	5.40	24.62	333	0.03
20	17.41	33.93	5.57	20	17.41	33.93	5.57	24.62	334	0.07
34	17.40	33.98	5.45	30	17.40	33.96	5.50	24.64	332	0.10
49	17.39	33.94	5.41	50	17.39	33.94	5.41	24.63	334	0.17
63	16.80	33.86	5.21	75	15.02	33.51	5.22	24.84	314	0.25
78	14.38	33.51	5.22	100	12.50	33.50	4.20	25.35	266	0.32
97	12.70	33.50	4.51	150	10.76	33.90	3.03	25.98	206	0.44
120	11.60	33.79	3.36	200	10.31	34.31	1.35	26.38	170	0.53
149	10.78	33.89	3.06	250	10.39	34.53	0.50	26.54	156	0.61
196	10.31	34.29	1.48	300	9.52	34.46	0.41	26.63	148	0.69
243	10.42	34.53	0.51	400	8.25	34.46	0.28	26.83	130	0.83
290	9.68	34.46	0.42	500	7.08	34.47	0.25	27.01	113	0.95
389	8.38	34.46	0.28	600	(6.29)	(34.47)		(27.12)	(104)	(1.06)
484	7.24	34.47	0.25							
587	6.36	34.47	0.22							

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