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UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5305

(MLR 48)

29 April - 30 May 1953

SIO Reference 58-14

1 March 1958

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5305

(MLR 48)

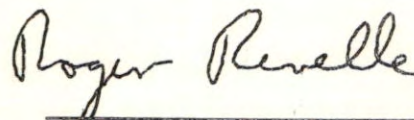
29 April - 30 May 1953

Sponsored by

Marine Research Committee

SIO Reference 58-14
1 March 1958

Approved for distribution:



Roger Revelle, Director

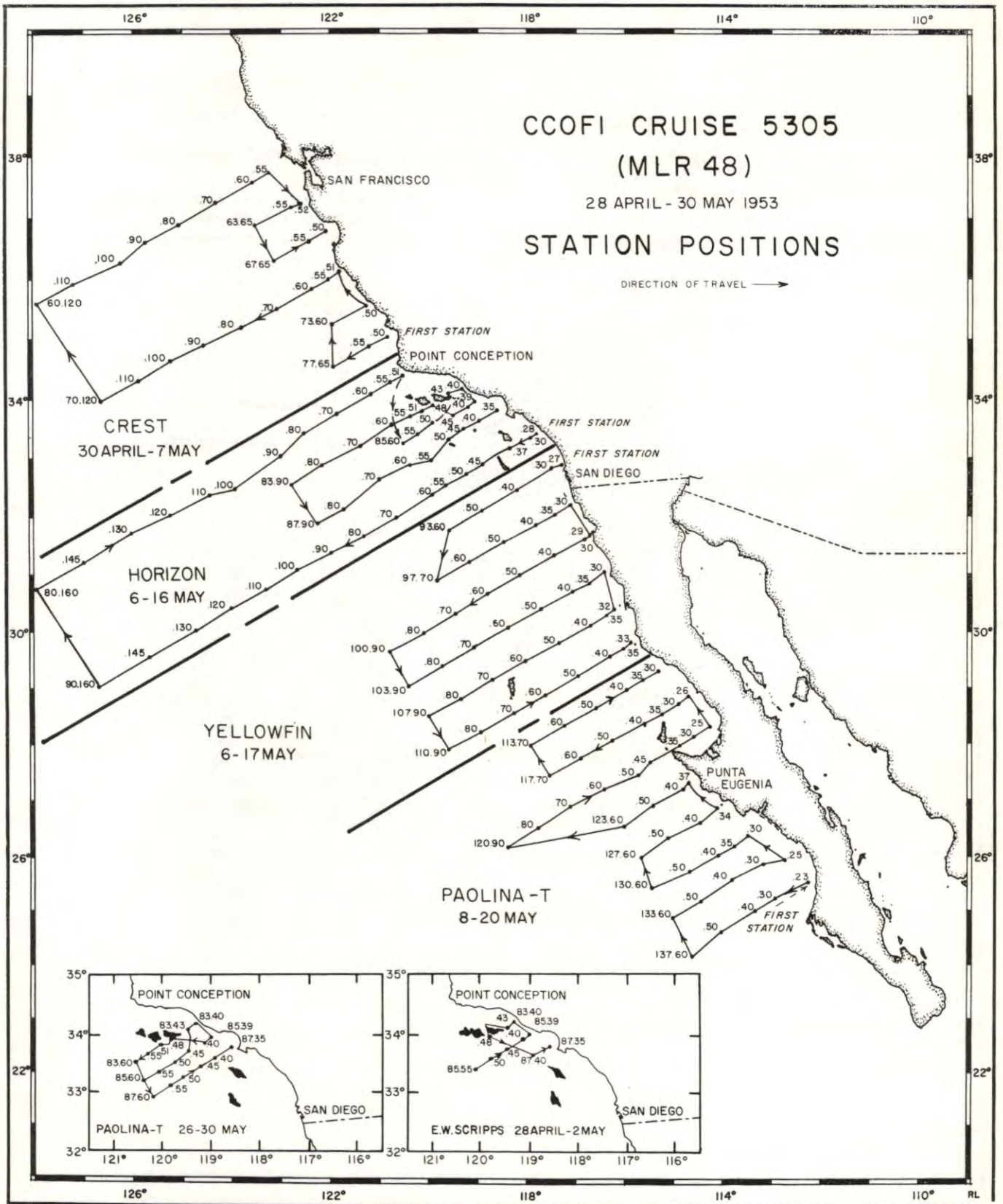


FIGURE 1

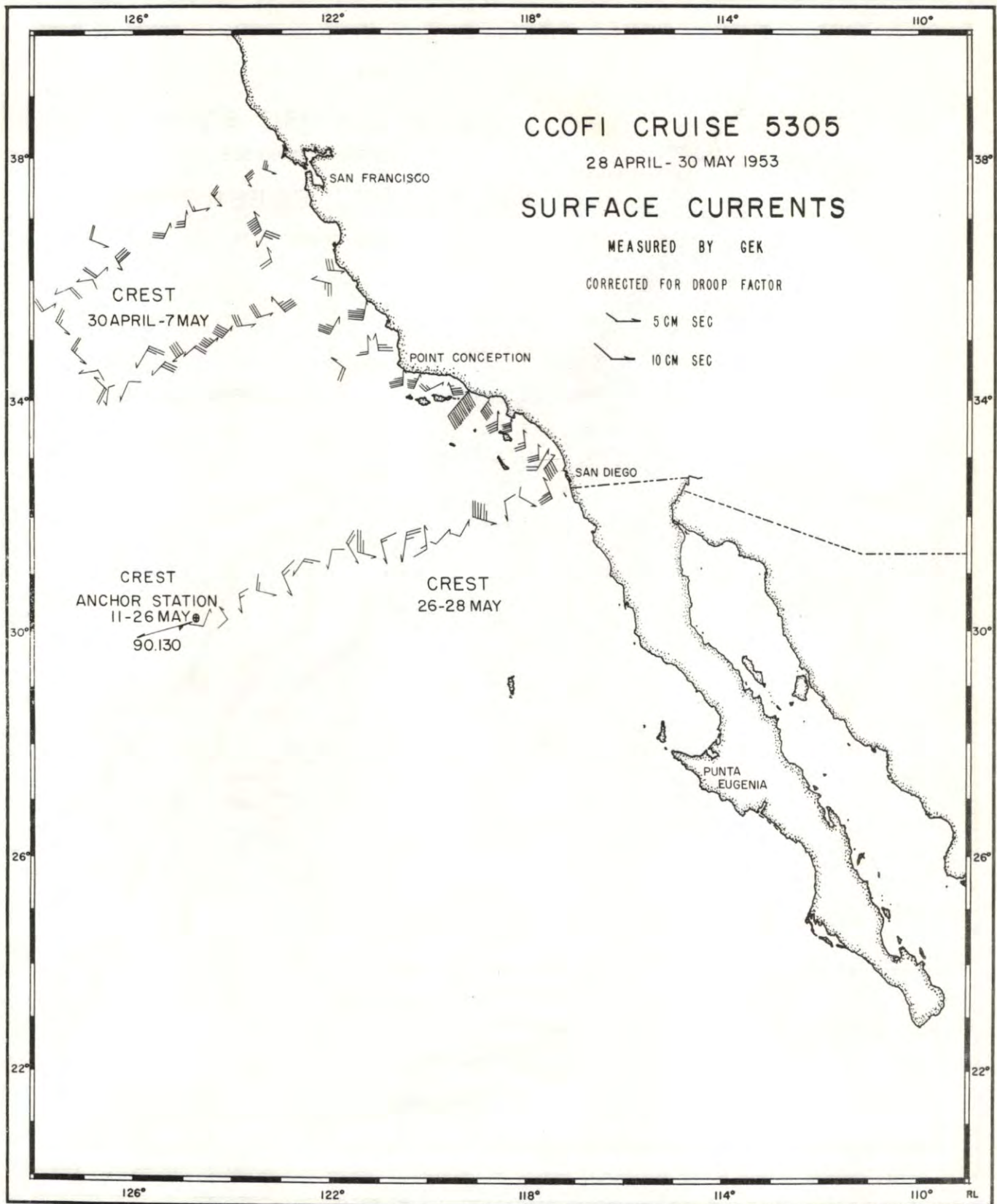
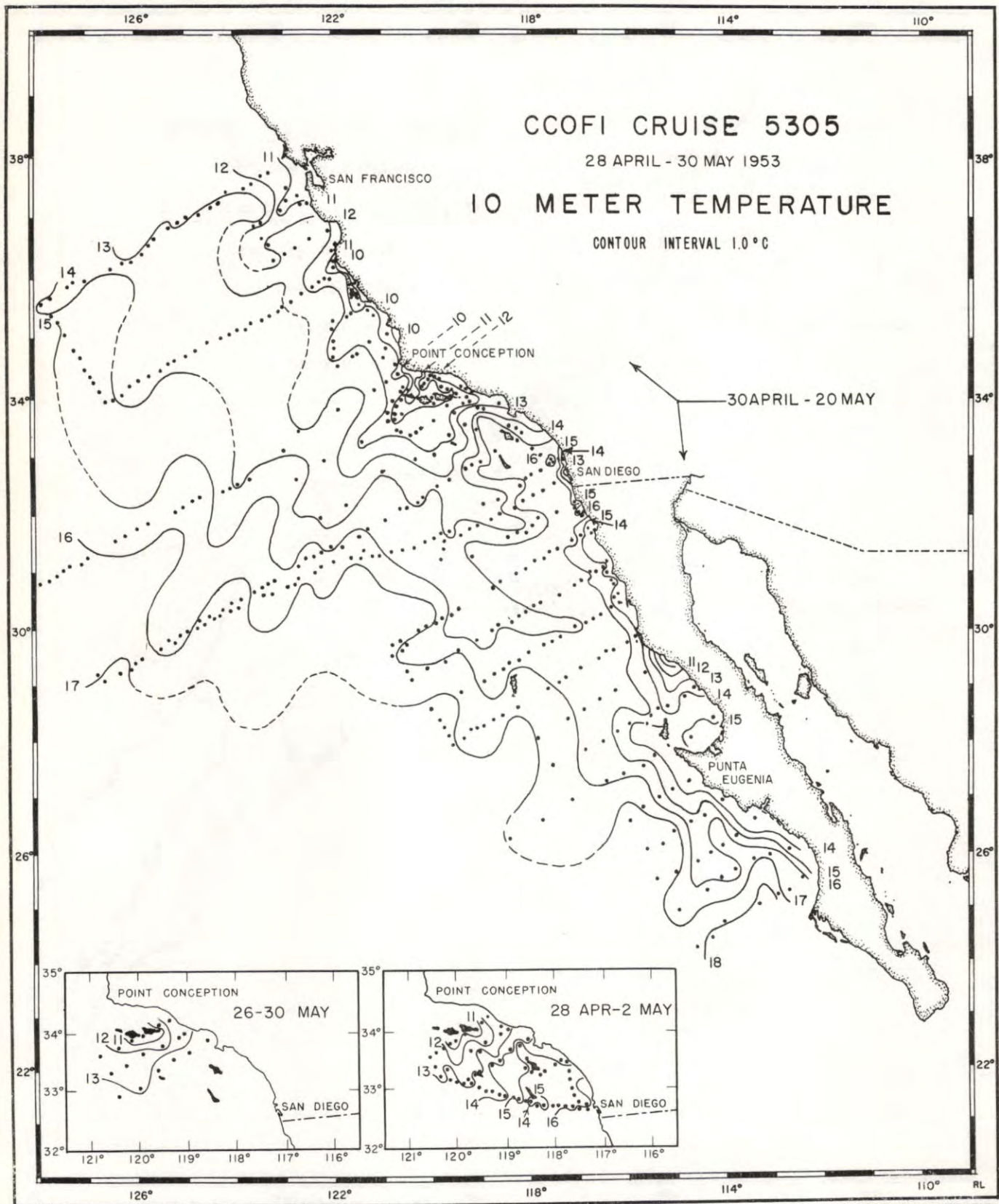


FIGURE 3

FROM H.O. CHART 0527



FROM H.O. CHART 0527

FIGURE 4

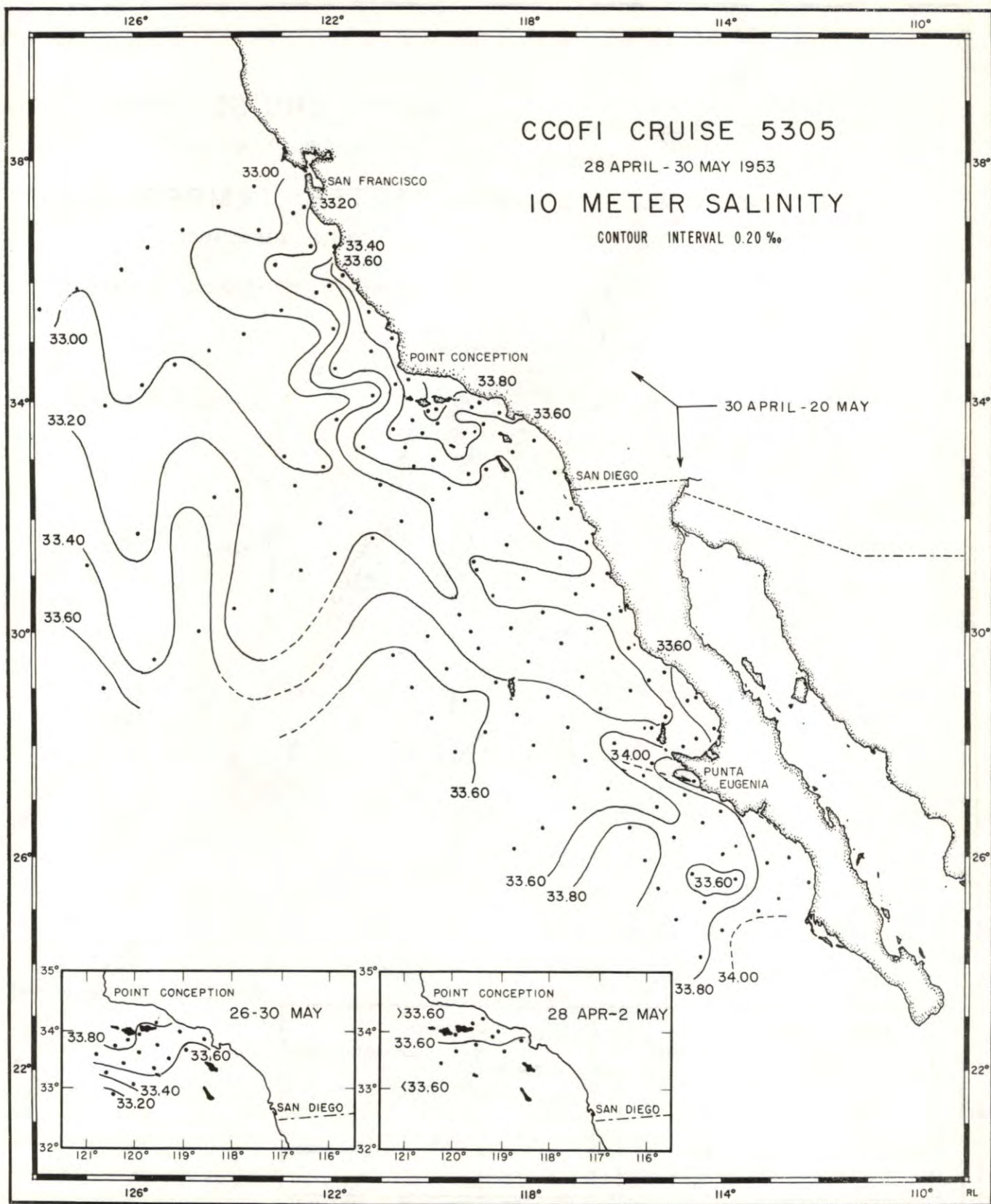


FIGURE 5

FROM H.O. CHART 0527

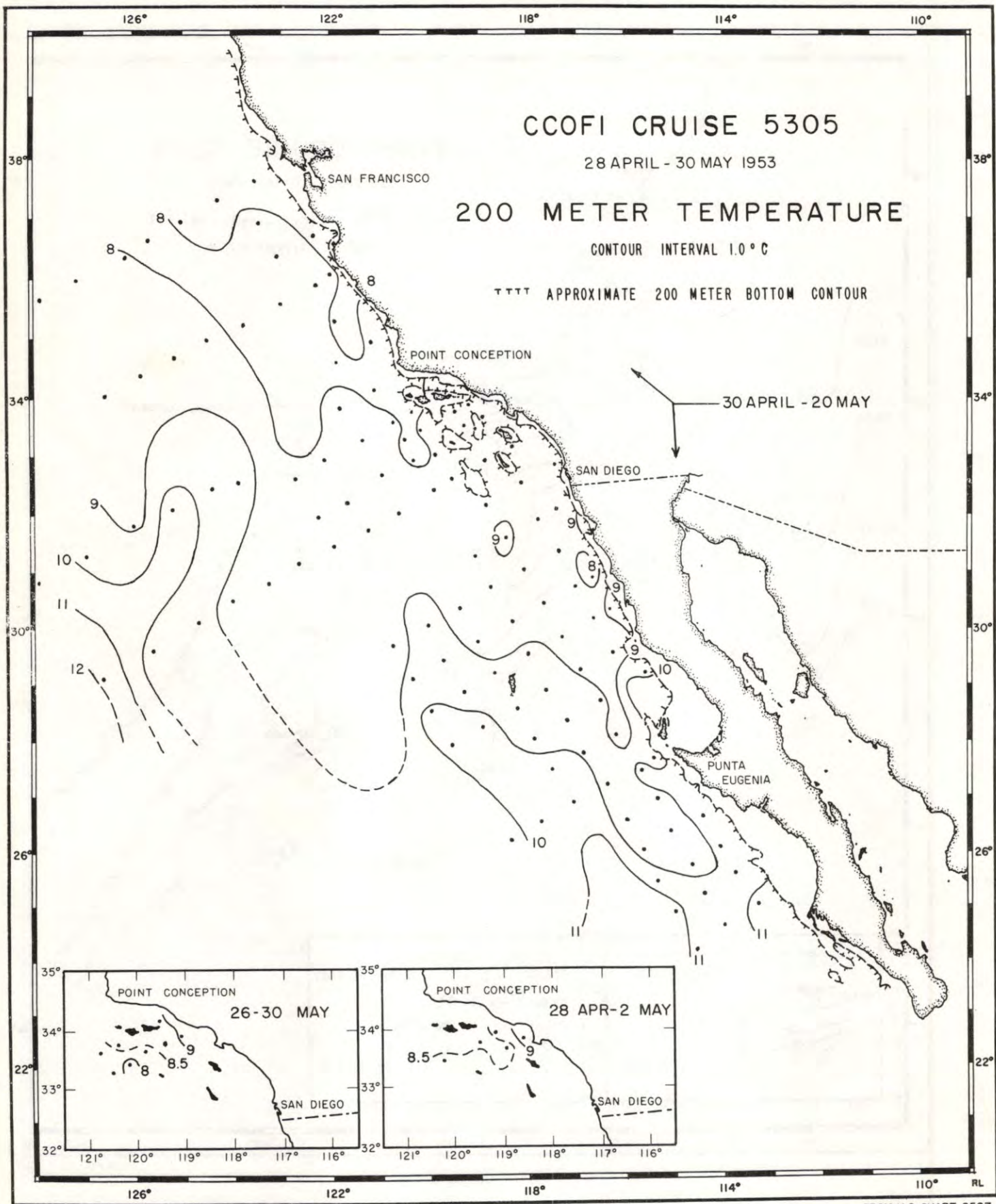


FIGURE 6

FROM H.O. CHART 0527

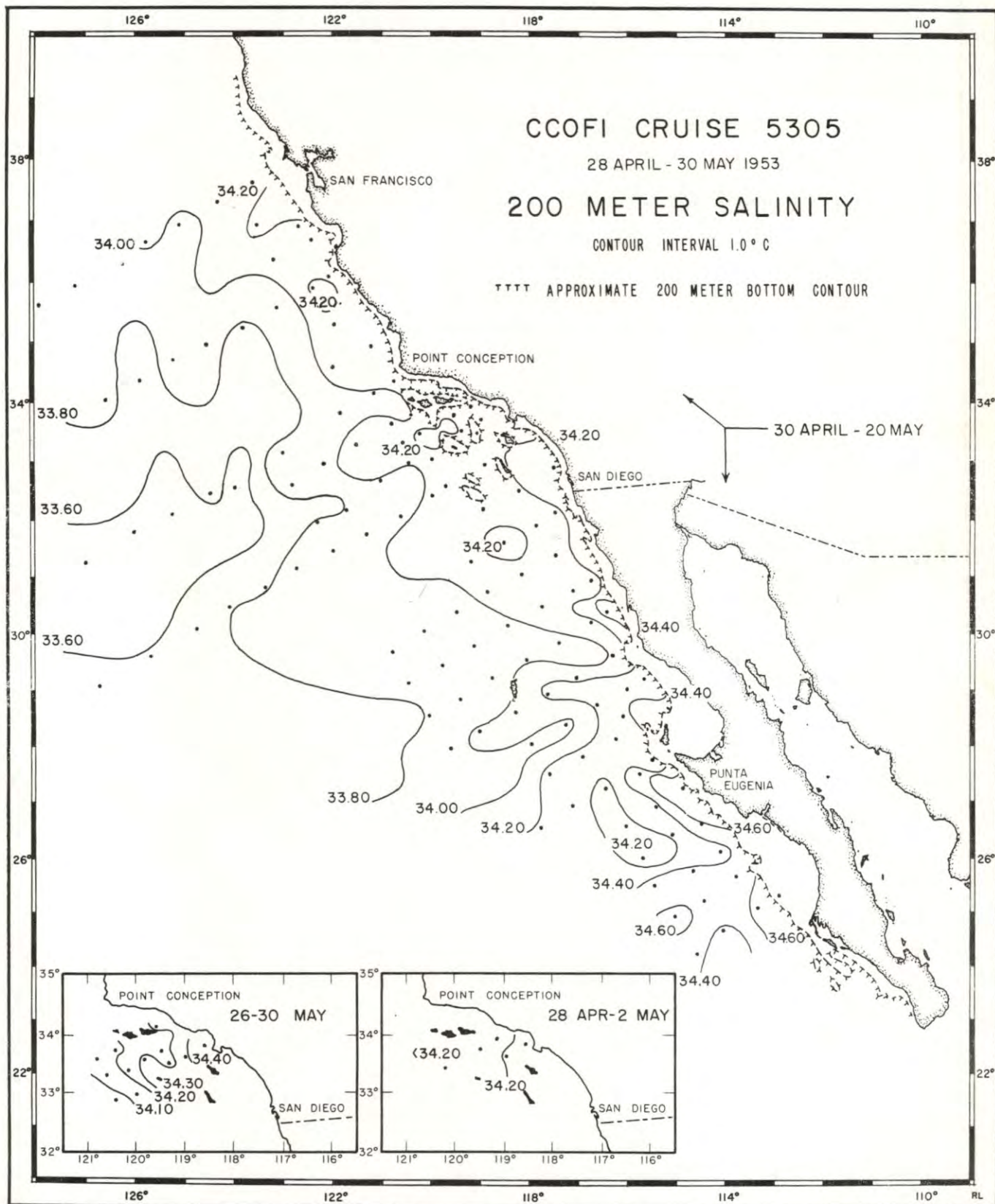


FIGURE 7

INTRODUCTION

The data in this report were collected on the forty-eighth consecutive cruise of the California Cooperative Oceanic Fisheries Investigations program. The five ships participating were the R/V Yellowfin of the California Department of Fish and Game the R/V Crest, the R/V E. W. Scripps, the R/V Horizon and the R/V Paolina-T 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

UNIVERSITY OF CALIFORNIA PRESS

These data are 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 5305 data is numbered 163.

PERSONNEL

SHIPS' CAPTAINS

Davis, L. E., R/V Crest
Brandal, G., R/V E. W. Scripps
Ferris, Noel, R/V Horizon
Newbegin, R. C., R/V Paolina-T
Mitchell, R. B., R/V Yellowfin

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V CREST

Coolidge, Richard N., Senior Marine Technician
Duiker, Wesley J., Marine Technician
O'Connell, Charles P., Marine Biologist, U. S. Fish and Wildlife Service
Reid, Joseph L., Jr., Junior Research Oceanographer
Schwartzlose, Richard A., Marine Technician

R/V E. W. SCRIPPS

Payne, Miles M., Senior Marine Technician
Bradshaw, John S., Research Assistant
Greenbaum, Richard H., Marine Technician
King, Robert D., Marine Technician

R/V HORIZON

Smith, Alan C., Senior Marine Technician
Kramer, David, Marine Biologist, U. S. Fish and Wildlife Service
Kircher, Robert J., Marine Technician
Lance, James R., Marine Technician
*Person, David A., Marine Technician
Uren, Leon W., Laboratory Technician

R/V PAOLINA-T (FIRST CRUISE)

Gilkey, Robert W., Senior Marine Technician
Casey, Harold D., Fisheries Aid, U. S. Fish and Wildlife Service
Greenbaum, Richard H., Marine Technician
Stevers, Allan J., Jr., Marine Technician

R/V PAOLINA-T (SECOND CRUISE)

Worrall, Charles G., Senior Marine Technician
Howell, Robert W., Marine Technician
Person, David N., Marine Technician
Riber, Donald N., Marine Technician

R/V YELLOWFIN

Payne, Miles M., Senior Marine Technician
Bevington, Clarence L., Junior Aquatic Biologist, California Department of Fish
and Game, Marine Fisheries Branch
*Eberhardt, Robert L., Junior Aquatic Biologist, California Department of Fish
and Game, Marine Fisheries Branch
King, Robert D., Marine Technician
*Riber, Donald N., Marine Technician

* These personnel did not make the full cruise.

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ_T	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

S10
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5305

CREST; May 7, 1953; 0043 GCT; 37°47.5'N, 123°15'W; sounding, 70 fm; wind, 270°, force 3; weather, cloudy; sea, moderate; wire angle, 04°.

60.55

0	12.54	-	-	0	12.54	(33.40)	(7.80)	(25.26)	(272)	(0.00)
10	11.60	-	7.81	10	11.60	(33.42)	(7.81)	(25.46)	(254)	(0.03)
20	9.75	33.44	5.99	20	9.75	33.44	5.99	25.80	221	(0.05)
30	8.76	33.69	3.90	30	8.76	33.69	3.90	26.15	188	(0.07)
50	8.70	33.79	3.35	50	8.70	33.79	3.35	26.24	180	(0.11)
75	8.50	33.88	2.64	75	8.50	33.88	2.64	26.34	171	(0.15)

CREST; May 6, 1953; 2140 GCT; 37°37'N, 123°36.5'W; sounding, 2000 fm; wind, 280°, force 4; weather, overcast; sea, moderate; wire angle, 14°.

60.60

0	12.20	32.82	6.49	0	12.20	32.82	6.49	24.88	308	0.00
10	11.73	32.84	7.08	10	11.73	32.84	7.08	24.98	299	0.03
24	11.03	32.98	7.14	20	11.24	32.90	7.14	25.12	286	0.06
48	10.26	33.18	5.98	30	10.83	33.04	7.10	25.30	269	0.09
72	9.10	33.58	4.59	50	10.11	33.20	5.80	25.55	246	0.14
96	8.84	33.70	4.19	75	9.04	33.60	4.50	26.04	200	0.19
147	8.47	34.05	2.10	100	8.80	33.73	4.04	26.18	187	0.24
192	8.24	34.17	2.07	150	8.44	34.07	2.08	26.50	157	0.32
237	8.04	34.19	1.32	200	8.22	34.17	2.03	26.61	148	0.40
281	7.69	34.29	1.18	250	7.94	34.22	1.26	26.69	140	0.47
373	6.71	34.26	0.93	300	7.51	34.28	1.13	26.80	131	0.53
462	5.64	34.18	0.77	400	6.38	34.24	0.88	26.93	119	0.64
556	5.09	34.38	0.49	500	5.38	34.23	0.67	27.04	109	0.74
743	4.34	34.41	0.37	600	4.87	34.39	0.43	27.23	92	0.83
930	3.84	34.59	0.47	700	4.48	34.40	0.38	27.28	87	0.89
1130	3.38	34.68	0.64	800	4.18	34.46	0.39	27.36	80	0.95
				1000	3.68	34.63	0.53	27.55	64	1.03

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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CREST; May 6, 1953; 0219 GCT; 36°17'N, 126°14'W; sounding, 2700 fm; wind, 180°, force 3; weather, cloudy; sea, moderate; wire angle, 04°.

60.100

0	14.36	32.94	6.14	0	14.36	32.94	6.14	24.54	341	0.00
10	13.06	32.87	6.33	10	13.06	32.87	6.33	24.75	320	0.03
25	12.60	32.91	6.22	20	12.73	32.90	6.27	24.84	313	0.06
50	11.66	32.85	6.21	30	12.42	32.91	6.22	24.91	306	0.10
75	10.80	32.84	6.10	50	11.66	32.85	6.21	25.01	297	0.16
99	10.44	32.92	6.04	75	10.80	32.84	6.10	25.15	284	0.23
151	8.37	33.50	4.31	100	10.42	32.92	6.04	25.28	272	0.30
199	8.06	33.90	3.72	150	8.39	33.50	4.36	26.06	199	0.41
246	7.33	34.04	3.09	200	8.06	33.91	3.70	26.43	164	0.50
293	6.67	33.99	3.03	250	7.28	34.04	3.07	26.65	144	0.58
390	5.70	34.13	1.68	300	6.58	33.99	2.98	26.70	139	0.64
483	4.98	34.16	1.14	400	5.59	34.14	1.61	26.95	117	0.76
581	4.71	34.28	0.61	500	4.90	34.17	1.06	27.05	107	0.86
774	4.24	34.45	0.33	600	4.67	34.30	0.57	27.18	096	0.94
965	3.78	34.54	0.40	700	4.43	34.39	0.38	27.28	087	1.01
1164	3.32	34.59	0.71	800	4.18	34.46	0.33	27.36	080	1.07
				1000	3.69	34.55	0.44	27.48	070	1.15

CREST; May 5, 1953; 2117 GCT; 35°57'N, 127°12'W; sounding, 2900 fm; wind, 170°, force 4; weather, cloudy; sea, moderate; wire angle, 10°.

60.110

0	14.64	32.97	6.05	0	14.64	32.97	6.05	24.51	344	0.00
10	13.94	33.01	6.08	10	13.94	33.01	6.08	24.68	327	0.03
20	13.66	33.04	6.02	20	13.66	33.04	6.02	24.76	320	0.07
35	13.39	32.96	6.21	30	13.49	32.98	6.18	24.75	328	0.10
50	12.81	32.99	6.25	50	12.81	32.99	6.25	24.90	308	0.16
64	12.40	32.98	6.35	75	12.04	32.92	6.18	24.99	300	0.24
78	11.99	32.92	6.18	100	11.33	33.06	6.25	25.23	277	0.31
97	11.47	33.04	6.27	150	9.39	33.38	4.80	25.81	223	0.43
121	10.2	33.15	5.60	200	8.35	33.83	3.49	26.32	174	0.53
148	9.45	33.35	4.86	250	7.61	34.01	3.05	26.57	151	0.60
193	8.48	33.80	3.53	300	7.03	34.11	2.34	26.74	137	0.67
239	7.78	33.97	3.20	400	6.18	34.10	1.25	26.84	127	0.80
285	7.17	34.11	2.54	500	5.49	34.24	0.77	27.04	109	0.90
382	6.32	34.07	1.40							
477	5.62	34.23	0.85							
577	5.18	34.26	0.58							

CREST; May 5, 1953; 1611 GCT; 35°37'N, 127°55'W; sounding, 2930 fm; wind, 180°, force 3; weather, overcast; sea, moderate; wire angle, 15°.

60.120

0	14.54	33.00	6.03	0	14.54	33.00	6.03	24.55	340	0.00
9	13.76	32.91	6.16	10	13.73	32.91	6.15	24.65	330	0.03
24	13.54	32.98	6.08	20	13.61	32.98	6.09	24.73	323	0.07
48	12.78	32.91	6.25	30	13.42	32.98	6.10	24.77	320	0.10
72	12.34	32.84	6.34	50	12.72	32.90	6.29	24.84	313	0.16
95	11.78	32.94	6.08	75	12.30	32.84	6.34	24.88	310	0.24
145	8.79	33.18	5.17	100	11.56	32.97	6.00	25.12	288	0.31
189	8.22	-	4.36	150	8.71	33.22	5.05	25.79	224	0.44
232	7.91	33.97	4.19	200	8.14	33.85	4.30	26.37	170	0.54
277	7.18	-	3.67	250	7.67	33.99	4.03	26.55	153	0.62
369	6.14	34.08	1.69	300	6.85	34.04	3.19	26.70	139	0.69
458	5.48	34.14	1.05	400	5.88	34.09	1.39	26.87	124	0.83
552	4.78	34.26	0.74	500	5.15	34.19	0.90	27.04	109	0.94
739	4.25	34.36	0.40	600	4.60	34.29	0.63	27.18	096	1.04
924	3.71	34.50	0.90r	700	4.35	34.34	0.43	27.25	090	1.14
1120	3.36	34.59	0.69	800	4.07	34.40	0.42	27.32	084	1.22
				1000	3.57	34.54	0.55	27.49	069	1.38

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

63.52 CREST; May 7, 1953; 0433 GCT; 37°18.5'N, 122°37'W; sounding, 45 fm; wind, 250°, force 3; weather, partly cloudy; sea, slight; wire angle, 02°.

0	11.99	33.18	7.69	0	11.99	33.18	7.69	25.20	278	0.00
10	11.63	33.18	7.40	10	11.63	33.18	7.40	25.27	272	0.03
20	10.84	-	6.39	20	10.84	33.20	6.39	25.42	260	0.05
30	10.16	33.49	5.47	30	10.16	33.49	5.47	25.77	224	0.08
50	8.92	-	3.69	50	8.92	-	3.69	-	-	-

63.55 CREST; May 7, 1953; 0600 GCT; 37°13'N, 122°49'W; sounding, 98 fm; wind, 250°, force 3; weather, partly cloudy; sea, slight; wire angle, 05°.

0	12.58	-	6.63	0	12.58	(33.13)	6.63	(25.05)	(292)	(0.00)
10	11.60	33.13	6.88	10	11.60	33.13	6.88	25.23	275	0.03
25	9.62	33.34	5.38	20	9.83	33.17	6.00	25.57	243	0.05
50	8.99	33.63	4.09	30	9.42	33.41	5.00	25.83	219	0.08
75	8.80	33.93	3.00	50	8.99	33.63	4.09	26.07	196	0.12
100	8.39	33.91	2.79	75	8.80	33.93	3.00	26.33	172	0.16
125	8.42	34.04	2.35	100	8.39	33.91	2.79	26.38	166	0.21
154	7.99	33.99	2.43	150	8.08	34.01	2.42	26.51	156	0.28

63.65 CREST; May 7, 1953; 1046 GCT; 36°53'N, 123°32'W; sounding, 1600 fm; wind, 270°, force 4; weather, partly cloudy; sea, moderate; wire angle, 06°.

0	12.38	-	6.57	0	12.38	(32.82)	6.57	(24.85)	(312)	(0.00)
10	11.66	32.82	7.04	10	11.66	32.82	7.04	24.98	299	0.03
20	11.36	-	6.58	20	11.36	32.84	6.58	25.05	292	0.06
35	10.36	-	6.07	30	10.59	32.93	6.17	25.26	273	0.09
50	9.96	33.22	5.82	50	9.96	33.22	5.82	25.59	242	0.14
64	9.24	33.38	4.84	75	8.70	33.52	4.05	26.03	201	0.19
78	8.65	-	4.00	100	8.34	33.82	3.27	26.32	173	0.24
97	8.35	-	3.38	150	7.76	33.96	2.99	26.51	155	0.32
121	8.27	33.94	2.93	200	7.72	34.23	1.43	26.73	136	0.39
148	7.79	33.96	3.00	250	7.43	34.26	1.27	26.80	130	0.45
193	7.73	34.22	1.47	300	7.12	34.34	0.99	26.90	121	0.51
238	7.50	34.24	1.33	400	6.34	34.30	0.80	26.98	114	0.62
285	7.21	34.33	1.04	500	5.46	34.33	0.51	27.11	102	0.71
383	6.50	34.31	0.86							
477	5.51	34.32	0.57							
579	5.34	34.40	0.41							

67.50 CREST; May 7, 1953; 2213 GCT; 36°49'N, 122°05'W; sounding, 58 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 05°.

0	12.60	33.30	7.13	0	12.60	33.30	7.13	25.18	280	0.00
10	11.83	33.32	7.16	10	11.83	33.32	7.16	25.34	265	0.03
20	9.53	33.42	5.19	20	9.53	33.42	5.19	25.82	220	0.05
30	10.01	33.68	5.02	30	10.01	33.68	5.02	25.94	208	0.07
50	9.20	33.74	3.97	50	9.20	33.74	3.97	26.12	191	0.11
75	8.81	33.78	3.50	75	8.81	33.78	3.50	26.21	183	0.16

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{cm^3}{g}$	dyn. m

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CREST; May 7, 1953; 1952 GCT; 36°40'N, 122°26'W; sounding, 1300 fm; wind, 320°, force 3; weather, partly cloudy; sea, rough; wire angle, 17°.

67.55

0	13.80	33.02	6.62	0	13.80	33.02	6.62	24.72	324	0.00
10	12.64	33.11	6.69	10	12.64	33.11	6.69	25.02	295	0.03
20	10.88	-	6.61	20	10.88	33.27	6.61	25.47	252	0.06
34	10.31	33.40	6.27	30	10.48	33.37	6.41	25.62	239	0.08
48	9.28	-	4.84	50	9.11	33.46	4.71	25.92	211	0.13
62	8.77	33.53	4.39	75	8.74	33.81	3.75	26.25	180	0.18
76	8.73	33.81	3.74	100	8.78	33.94	3.08	26.34	171	0.22
95	8.80	33.92	3.27	150	8.37	34.06	1.88	26.50	157	0.30
118	8.62	34.00	2.48	200	8.04	34.15	1.34	26.62	146	0.37
144	8.40	34.05	2.00	250	7.76	34.22	1.39	26.72	138	0.44
186	8.16	34.14	1.31	300	7.44	34.24	1.22	26.78	133	0.50
229	7.84	34.18	1.42	400	6.70	34.27	0.88	26.91	122	0.62
272	7.63	34.24	1.30	500	6.02	34.34	0.63	27.05	109	0.72
362	6.90	34.24	1.09							
451	6.42	34.33	0.70							
546	5.56	34.32	0.59							

CREST; May 7, 1953; 1520, 1538 GCT; 36°02'N, 123°01'W; sounding, 1700 fm; wind, 330°, force 1; weather, rain showers; sea, rough; wire angle, 07°, 07°.

67.65

0	13.10	33.14	6.81	0	13.10	33.14	6.81	24.95	301	0.00
10	12.00	33.30	6.23	10	12.00	33.30	6.23	25.29	270	0.03
20	11.47	33.29	6.29	20	11.47	33.29	6.29	25.38	261	0.06
35	10.61	33.57	5.14	30	10.83	33.48	5.30	25.64	237	0.08
50	9.95	33.62	4.87	50	9.95	33.62	4.87	25.90	212	0.12
65	9.39	33.77	3.99	75	9.21	33.83	3.75	26.19	185	0.17
				100	8.73	33.97	3.20	26.38	168	0.22
77	9.19	33.83	3.72	150	7.78	34.05	2.81	26.58	149	0.29
95	8.79	33.95	3.34	200	7.49	34.06	2.00	26.63	145	0.36
119	8.58	34.02	2.52	250	7.10	34.17	1.50	26.77	132	0.43
146	7.81	34.05	2.82	300	6.83	34.19	1.11	26.83	128	0.49
191	7.54	34.05	2.10	400	6.47	34.35	0.59	27.00	112	0.60
236	7.20	34.16	1.64	500	5.83	34.35	0.43	27.08	106	0.70
283	6.90	34.17	1.22							
381	6.56	34.35	0.68							
476	5.94	34.34	0.43							
578	5.50	34.43	0.41							

CREST; May 3, 1953; 1700 GCT; 36°10.5'N, 121°46'W; sounding, 200 fm; wind, calm; weather, clear; sea, slight; wire angle, 08°.

70.51

0	9.69	33.81	4.16	0	9.69	33.81	4.16	26.10	193	0.00
8	9.50	33.80	4.05	10	9.47	33.80	4.00	26.12	190	0.02
20	9.30	33.81	3.63	20	9.30	33.81	3.63	26.16	187	0.04
38	9.06	33.83	3.22	30	9.17	33.82	3.37	26.19	184	0.06
57	8.78	33.94	2.72	50	8.87	33.90	2.82	26.30	174	0.09
76	8.66	33.94	2.57	75	8.66	33.94	2.57	26.36	169	0.13
117	8.58	34.04	2.17	100	8.59	34.00	2.32	26.42	164	0.18
154	8.55	34.10	1.93	150	8.57	34.09	1.96	26.49	157	0.25
191	8.40	34.09	1.78	200	8.32	34.10	1.73	26.54	154	0.33
231	7.86	34.22	1.53							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

70.55

CREST; May 3, 1953; 1938 GCT; 36°03'N, 122°02'W; sounding, 760 fm; wind, 010°, force 1; weather, clear; sea, slight; wire angle, 05°.

0	12.05	33.41	6.24	0	12.05	33.41	6.24	25.37	262	0.00
10	11.10	33.35	6.27	10	11.10	33.35	6.27	25.49	250	0.03
25	11.06	33.38	6.21	20	11.07	33.36	6.25	25.51	249	0.05
50	9.21	33.58	4.66	30	11.05	33.40	6.11	25.54	246	0.08
74	8.96	33.77	3.89	50	9.21	33.58	4.66	25.99	204	0.12
98	8.88	33.91	2.87	75	8.96	33.77	3.80	26.18	186	0.17
149	8.43	34.13	2.09	100	8.87	33.92	2.81	26.31	174	0.21
193	7.84	34.16	2.02	150	8.42	34.13	2.07	26.55	152	0.29
240	7.59	34.21	1.58	200	7.80	34.17	2.00	26.67	141	0.36
289	7.31	-	1.26	250	7.54	34.22	1.50	26.75	135	0.43
386	6.60	34.42	0.62	300	7.23	34.29	1.18	26.85	126	0.49
480	6.02	34.37	0.41	400	6.51	34.42	0.48	27.05	108	0.60
580	5.49	34.45	0.35	500	5.92	34.38	0.40	27.09	104	0.69
775	4.52	-	0.71r	600	5.37	34.45	0.37	27.22	094	0.77
968	4.00	34.50	0.54	700	4.86	34.46	0.40	27.29	086	0.84
1168	3.45	34.56	0.72	800	4.44	34.47	0.45	27.34	083	0.90
				1000	3.92	34.51	0.58	27.43	076	0.99

70.60

CREST; May 3, 1953; 2258, 2325 GCT; 35°53'N, 122°23'W; sounding, 1900 fm; wind, 030°, force 2; weather, clear; sea, slight; wire angle, 10°, 17°.

0	12.62	33.30	6.19	0	12.62	33.30	6.19	25.17	281	0.00
10	11.66	-	6.60	10	11.66	33.33	6.60	25.38	261	0.03
20	11.51	33.38	6.23	20	11.51	33.38	6.23	25.44	255	0.05
35	9.93	33.58	5.37	30	10.50	33.53	5.62	25.74	227	0.08
49	9.28	33.67	4.58	50	9.23	33.67	4.46	26.06	197	0.12
64	9.01	33.70	4.02	75	8.91	33.77	3.86	26.19	185	0.17
78	8.90	33.78	3.82	100	8.77	33.98	2.65	26.38	168	0.21
97	8.82	33.94	2.89	150	8.24	34.17	2.07	26.61	147	0.29
120	8.50	34.09	2.11	200	7.79	34.24	1.57	26.73	136	0.36
147	8.28	-	2.08	250	7.28	34.24	1.53	26.80	130	0.42
192	7.87	34.24	1.59	300	6.83	34.23	1.34	26.86	125	0.48
238	7.40	34.24	1.55	400	5.87	34.22	0.93	26.97	114	0.59
				500	5.47	34.26	0.57	27.06	108	0.68
273	7.09	-	1.43							
368	6.16	34.22	1.06							
462	5.51	34.23	0.70							
562	5.44	34.34	0.37							

70.70

CREST; May 4, 1953; 0436 GCT; 35°31.5'N, 123°05'W; sounding, 2400 fm; wind, 020°, force 2; weather, clear; sea, slight; wire angle, 08°.

0	13.36	32.95	6.15	0	13.36	32.95	6.15	24.76	320	0.00
10	13.22	32.99	6.15	10	13.22	32.99	6.15	24.81	315	0.03
25	13.15	32.96	6.10	20	13.19	32.98	6.12	24.81	315	0.06
50	12.14	32.91	6.20	30	13.03	32.95	6.12	24.82	315	0.10
74	11.17	32.99	5.89	50	12.14	32.91	6.20	24.96	302	0.16
98	10.12	33.06	5.69	75	11.17	32.99	5.88	25.20	279	0.23
149	8.15	33.57	4.05	100	9.99	33.06	5.64	25.46	255	0.29
194	7.67	33.88	3.33	150	8.13	33.58	4.02	26.16	189	0.40
240	7.27	34.04	2.36	200	7.63	33.91	3.22	26.49	158	0.49
285	6.57	-	2.23	250	7.15	34.05	2.34	26.67	142	0.56
381	5.76	34.15	1.07	300	6.41	34.10	2.08	26.81	129	0.62
472	5.48	34.26	0.54	400	5.70	34.17	0.94	26.96	116	0.73
569	5.10	34.34	0.37	500	5.38	34.28	0.47	27.08	105	0.83
760	4.42	34.48	0.33	600	4.98	34.37	0.36	27.20	094	0.91
950	3.86	34.48	0.47	700	4.64	34.46	0.34	27.31	085	0.98
				800	4.30	34.48	0.34	27.36	080	1.04
				1000	(3.74)	(34.48)		(27.42)	(076)	(1.13)

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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CREST; May 4, 1953; 1017 GCT; 35°13'N, 123°47'W; sounding, 2400 fm; wind, calm; weather, partly cloudy; sea, slight; wire angle, 05°.

70.80

0	13.54	32.93	6.07	0	13.54	32.93	6.07	24.70	325	0.00
10	13.54	32.94	6.19	10	13.54	32.94	6.19	24.71	323	0.03
20	13.43	32.97	5.94	20	13.43	32.97	5.94	24.76	321	0.06
35	12.81	32.86	6.27	30	12.99	32.87	6.16	24.77	320	0.10
50	12.45	32.95	6.29	50	12.45	32.95	6.29	24.93	304	0.16
65	12.04	32.89	6.22	75	11.93	32.90	6.22	24.99	299	0.23
79	11.89	32.90	6.22	100	11.29	32.89	6.04	25.10	289	0.31
98	11.37	32.89	6.07	150	8.60	33.30	4.47	25.87	216	0.43
121	10.38	33.09	5.63	200	7.77	33.77	3.57	26.36	170	0.53
149	8.65	33.29	4.51	250	7.27	33.98	3.37	26.60	148	0.60
195	7.82	33.75	3.60	300	6.67	34.04	2.16	26.73	137	0.67
242	7.36	33.95	3.44	400	5.78	34.06	1.38	26.86	125	0.79
287	6.81	34.04	2.30	500	5.62	34.25	0.50	27.03	110	0.89
385	5.80	34.04	1.53	600	(5.03)	(34.35)		(27.18)	(097)	(0.98)
480	5.72	34.22	0.57							
580	5.16	34.34	0.40							

CREST; May 4, 1953; 1525 GCT; 34°56'N, 124°32'W; sounding, 2520 fm; wind, calm; weather, partly cloudy; sea, slight; wire angle, 02°.

70.90

0	13.23	32.95	6.36	0	13.23	32.95	6.36	24.78	318	0.00
10	13.22	32.98	6.29	10	13.22	32.98	6.29	24.81	316	0.03
25	13.15	32.94	6.15	20	13.18	32.95	6.18	24.79	317	0.06
50	13.03	33.04	6.34	30	13.12	32.96	6.16	24.81	316	0.10
74	11.37	-	6.44	50	13.03	33.04	6.34	24.89	309	0.16
98	11.34	33.07	5.94	75	11.34	33.05	6.44	25.22	276	0.23
151	8.67	33.61	4.35	100	11.34	33.07	5.89	25.23	277	0.30
196	8.29	33.95	2.51	150	8.69	33.61	4.42	26.10	195	0.42
242	7.77	34.10	2.41	200	8.23	33.97	2.50	26.45	162	0.51
288	7.30	34.16	1.89	250	7.68	34.12	2.38	26.65	144	0.58
387	6.72	34.24	1.06	300	7.22	34.17	1.74	26.76	135	0.65
480	5.86	34.27	0.63	400	6.62	34.25	0.97	26.90	122	0.78
579	5.30	34.29	1.03r	500	5.73	34.27	(0.63)	27.03	110	0.90
773	4.42	34.49	1.35r	600	5.19	34.31		27.13	102	1.00
965	3.88	34.54	2.02r	700	4.73	34.41		27.26	090	1.10
1164	3.36	34.58	0.85r	800	4.33	34.51		27.38	078	1.18
				1000	3.78	34.54		27.46	072	1.33

CREST; May 4, 1953; 1932 GCT; 34°40'N, 125°13'W; sounding 2800 fm; wind, 190°, force 1; weather, cloudy; sea, slight; wire angle, 03°.

70.100

0	13.74	33.04	6.15	0	13.74	33.04	6.15	24.75	320	0.00
10	13.56	33.05	6.03	10	13.56	33.05	6.03	24.79	317	0.03
20	13.51	-	6.00	20	13.51	33.06	6.00	24.81	314	0.06
35	13.41	33.06	6.05	30	13.46	33.06	6.02	24.82	313	0.10
50	12.90	33.09	6.15	50	12.90	33.09	6.15	24.96	302	0.16
65	12.10	32.99	6.09	75	11.80	32.99	6.15	25.09	290	0.23
80	11.68	32.99	6.18	100	10.97	32.98	6.02	25.23	277	0.30
99	11.01	32.98	6.04	150	9.42	33.47	4.12	25.87	217	0.42
122	10.42	33.18	5.84	200	8.68	33.88	2.87	26.31	217	0.52
150	9.41	33.47	4.15	250	7.89	33.97	2.88	26.50	176	0.60
196	8.75	33.86	2.88	300	7.06	33.95	2.80	26.61	158	0.67
242	8.02	33.97	2.87	400	6.42	34.12	1.48	26.83	150	0.80
289	7.16	33.94	2.89	500	5.64	34.17	0.87	26.96	130	0.91
386	6.52	34.10	1.61	600	(5.25)	(34.28)		(27.10)	(105)	(1.00)
482	5.73	34.16	0.96							
584	5.30	34.26	0.51							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

70.110

CREST; May 5, 1953; 0022 GCT; 34°20'N, 125°55'W; sounding, 2800 fm; wind, calm; weather, cloudy; sea, slight; wire angle, 00°.

0	14.31	32.98	6.00	0	14.31	32.98	6.00	24.58	336	0.00
10	13.78	32.97	6.01	10	13.78	32.97	6.01	24.69	327	0.03
25	13.67	32.98	6.11	20	13.69	32.97	6.09	24.70	325	0.07
50	13.31	33.02	6.08	30	13.64	32.99	6.10	24.73	323	0.10
75	11.86	32.90	6.08	50	13.31	33.02	6.08	24.82	316	0.16
100	11.41	32.95	6.00	75	11.86	32.90	6.08	25.01	298	0.24
153	9.09	33.11	5.40	100	11.41	32.95	6.00	25.13	287	0.31
200	8.52	33.75	3.13	150	9.17	33.07	5.50	25.60	242	0.44
247	8.13	34.00	2.59	200	8.52	33.75	3.13	26.24	183	0.54
294	7.83	34.08	1.75	250	8.10	34.01	2.52	26.50	158	0.63
392	6.72	34.21	1.10	300	7.78	34.08	1.70	26.61	149	0.70
485	6.10	34.20	0.72	400	6.68	34.21	1.05	26.86	126	0.83
584	5.55	34.24	0.48	500	6.02	34.20	0.67	26.94	119	0.94
778	4.67	34.39	0.34	600	5.48	34.25	0.44	27.05	110	1.03
969	4.01	34.49	0.45	700	5.02	34.33	0.37	27.16	099	1.12
1166	3.43	34.60	0.78	800	4.58	34.40	0.35	27.27	089	1.18
				1000	3.93	34.51	0.49	27.43	076	1.29

70.120

CREST; May 5, 1953; 0506 GCT; 34°00'N, 126°37'W; sounding, 2900 fm; wind, 160°, force 1; weather, partly cloudy; sea, slight; wire angle, 00°.

0	15.18	33.05	6.03	0	15.18	33.05	6.03	24.45	349	0.00
10	14.46	33.02	5.98	10	14.46	33.02	5.98	24.58	337	0.03
20	14.24	33.02	5.99	20	14.24	33.02	5.99	24.63	333	0.07
35	13.89	33.04	5.99	30	14.00	33.03	5.98	24.69	328	0.10
50	13.52	33.06	6.08	50	13.52	33.06	6.08	24.81	316	0.16
65	12.98	33.03	6.18	75	12.60	32.95	6.20	24.91	308	0.24
79	12.48	32.95	6.19	100	11.74	33.14	5.83	25.22	279	0.32
98	11.88	33.14	5.89	150	9.31	33.42	4.09	25.85	219	0.44
122	10.30	33.17	5.17	200	8.37	33.87	3.00	26.36	172	0.53
150	9.31	33.42	4.09	250	7.50	33.99	3.43	26.58	151	0.61
196	8.44	33.85	2.98	300	7.02	34.06	2.80	26.70	140	0.68
243	7.58	33.98	3.43	400	5.87	34.16	1.56	26.93	119	0.80
290	7.13	34.05	2.93	500	5.18	34.22	0.84	27.06	107	0.90
388	5.98	34.15	1.70	600	(4.73)	(34.23)		(27.12)	(102)	(0.98)
483	5.28	34.22	0.91							
586	4.80	34.23	0.53							

73.50

CREST; May 3, 1953; 1228 GCT; 35°37'N, 121°16.5'W; sounding, 50 fm; wind, 120°, force 1; weather, clear; sea, slight; wire angle, 03°.

0	10.08	33.70	4.62	0	10.08	33.70	4.62	25.94	208	0.00
10	9.82	33.76	4.17	10	9.82	33.76	4.17	26.04	199	0.02
20	9.15	33.91	3.10	20	9.15	33.91	3.10	26.26	177	0.04
30	9.01	34.04	2.88	30	9.01	34.04	2.88	26.39	166	0.06
50	8.4	34.04	2.27	50	8.65	34.04	2.27	26.44	160	0.09
75	8.16	34.18	1.90	75	8.16	34.18	1.90	26.63	149	0.13

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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CREST; May 3, 1953; 0643 GCT; 35°18'N, 121°58.5'W; sounding, 1700 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 13°.

73.60

0	12.57	33.07	6.15	0	12.57	33.07	6.15	25.00	296	0.00
10	12.55	33.04	6.33	10	12.55	33.04	6.33	24.98	299	0.03
20	12.53	33.04	6.29	20	12.53	33.04	6.29	24.99	297	0.06
34	12.07	33.09	6.29	30	12.30	33.08	6.29	25.06	292	0.09
41p	11.84	33.06	6.27	50	11.70	33.09	6.35	25.18	281	0.15
49	11.7	-	6.36	75	10.54	33.35	5.00	25.59	242	0.21
63	11.42	-	5.91	100	9.37	33.62	3.80	26.00	204	0.27
77	10.53	33.37	5.00	150	8.67	33.93	2.60	26.35	171	0.36
95	9.52	-	4.02	200	8.38	34.10	1.92	26.53	155	0.44
119	8.97	-	2.94	250	7.63	34.17	1.80	26.70	140	0.51
146	8.70	33.91	2.67	300	(7.20)	(34.20)	(1.70)	(26.78)	(132)	(0.57)
191	8.48	34.08	1.96							
238	7.76	-	1.81							
297p	7.22	34.20	1.71							

CREST; May 2, 1953; 1521 GCT; 35°04.5'N, 120°52'W; sounding, 80 fm; wind, 300°, force 3; weather, clear; sea, rough; wire angle, 04°.

77.50

0	10.70	33.76	4.04	0	10.70	33.76	4.04	25.88	213	0.00
10	10.46	33.78	4.76	10	10.46	33.78	4.76	25.94	208	0.02
20	9.71	33.84	4.03	20	9.71	33.84	4.03	26.12	192	0.04
30	9.54	33.93	3.72	30	9.54	33.93	3.72	26.21	182	0.06
50	11.74r	33.93	3.00	50	9.27	33.93	3.00	26.26	178	0.10
75	8.92	34.04	2.49	75	8.92	34.04	2.49	26.40	165	0.14

CREST; May 2, 1953; 1828 GCT; 34°56'N, 121°14'W; sounding, 350 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 12°.

77.55

0	11.77	33.54	6.43	0	11.77	33.54	6.43	25.52	248	0.00
10	11.63	33.48	6.40	10	11.63	33.48	6.40	25.50	250	0.02
24	11.51	33.48	6.38	20	11.55	33.48	6.39	25.51	249	0.05
49	10.61	33.63	5.40	30	11.39	33.50	6.30	25.56	244	0.07
73	9.02	33.87	2.96	50	10.50	33.64	5.30	25.83	220	0.12
96	8.82	33.87	2.77	75	9.00	33.87	2.94	26.25	179	0.17
145	8.22	33.94	2.27	100	8.75	33.87	2.72	26.29	176	0.21
189	7.65	34.08	2.21	150	8.15	33.96	2.24	26.46	161	0.30
234	7.22	34.17	1.75	200	7.52	34.12	2.13	26.67	141	0.37
280	6.90	34.12	1.40	250	7.10	34.16	1.61	26.76	133	0.43
330	6.47	34.17	1.13	300	6.72	34.13	1.30	26.79	131	0.50
378	6.30	34.27	0.65	400	6.27	34.33	0.58	27.01	111	0.61
425	6.22	34.34	0.52	500	(5.98)	(34.31)		(27.03)	(110)	(0.70)
475	6.06	34.32	0.45							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{3}{\text{cm}^3/\text{g}}$	dyn. m

77.65

CREST; May 3, 1953; 0022 GCT; 34°34'N, 121°55'W; sounding, 2000 fm; wind, 320°, force 5; weather, clear; sea, rough; wire angle, 13°.

0	12.45	33.43	6.70	0	12.45	33.43	6.70	25.31	268	0.00
10	12.38	33.44	6.86	10	12.38	33.44	6.86	25.33	266	0.03
20	12.02	33.42	6.62	20	12.02	33.42	6.62	25.38	261	0.05
34	11.34	33.51	6.27	30	11.54	33.46	6.40	25.50	250	0.08
48	10.0	33.68	4.91	50	10.25	33.69	4.80	25.91	212	0.12
63	9.52	33.75	4.33	75	9.38	33.83	3.95	26.16	188	0.17
77	9.37	33.83	3.93	100	9.02	33.78	3.42	26.18	187	0.22
95	9.07	33.78	3.52	150	8.67	33.97	2.85	26.38	168	0.31
118	8.89	-	2.96	200	7.83	34.11	2.05	26.62	146	0.38
145	8.71	33.95	2.88	250	7.17	34.06	2.20	26.68	141	0.45
189	8.02	34.11	2.04	300	6.68	34.15	1.43	26.81	129	0.52
234	7.34	34.04	2.30	400	5.89	34.20	0.82	26.96	116	0.63
279	6.87	34.12	1.65	500	5.37	(34.20)		(27.02)	(111)	(0.72)
376	6.06	34.20	0.91							
468	5.50	34.20	0.67							
569	5.16	-	0.79r							

80.51

HORIZON; May 12, 1953; 0403 GCT; 34°26.5'N, 120°32.5'W; sounding, 50 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 13°.

0	9.75	33.79	4.96	0	9.75	33.79	4.96	26.07	195	0.00
9	9.74	33.68	4.83	10	9.73	33.67	4.80	25.98	204	0.02
19	9.68	33.59	4.60	20	9.64	33.59	4.50	25.93	209	0.04
28	9.52	33.76	4.06	30	9.53	33.80	4.00	26.11	192	0.06
48	9.56	33.97	3.86							

80.55

HORIZON; May 12, 1953; 0035 GCT; 34°20'N, 120°47.5'W; sounding, 450 fm; wind, 260, force 3; weather, clear; sea, rough; wire angle, 42°.

0	11.25	33.58	6.08	0	11.25	33.58	6.08	25.65	236	0.00
9	11.16	33.56	6.02	10	11.14	33.56	6.03	25.65	235	0.02
15	11.03	33.60	6.02	20	10.92	33.62	5.96	25.74	227	0.05
28	10.84	33.64	5.73	30	10.82	33.65	5.69	25.78	224	0.07
42	10.77	33.67	5.59	50	10.76	33.67	5.60	25.80	222	0.11
51	10.76	33.67	5.59	75	9.53	33.75	4.56	26.08	196	0.16
61	10.71	33.70	5.41	100	8.89	33.75	3.32	26.17	187	0.21
73	9.57	33.75	4.62	150	8.32	33.91	2.77	26.39	167	0.30
87	9.45	33.63u	4.38	200	7.73	34.07	2.06	26.60	148	0.38
102	8.85	33.76	3.26	250	7.26	34.13	1.66	26.72	137	0.44
129	8.52	33.84	3.11	300	6.87	34.17	0.89	26.80	130	0.51
160	8.23	33.95	2.48	400	(6.21)	(34.23)	(0.76)	(26.94)	(118)	(0.62)
188	7.90	34.05	2.16							
246	7.28	34.12	1.70							
315	6.76	34.18	0.80							
397	6.24	34.23	0.75							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{\text{cm}^3}{\text{g}}$	dyn. m

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HORIZON; May 11, 1953; 2050, 2112 GCT; 34°09'N, 121°11'W; sounding, 1500 fm; wind, 270°, force 4; weather, partly cloudy; sea, rough; wire angle, 35°, 38°.

80.60

0	12.98	33.10	6.22	0	12.98	33.10	6.22	24.95	302	0.00
8	12.88	33.10	6.27	10	12.89	33.10	6.26	24.96	300	0.03
				20	12.89	33.06	6.19	24.93	304	0.06
20	12.89	33.06	6.19	30	12.83	33.07	6.16	24.95	302	0.09
43	12.64	33.09	6.14	50	12.58	33.10	6.14	25.03	296	0.15
63	12.54	33.11	6.17	75	12.25	33.14	6.10	25.12	287	0.22
84	11.12	33.22	5.84	100	10.14	33.38	4.61	25.69	234	0.29
118	9.36	33.57	3.85	150	8.58	33.85	2.82	26.30	176	0.39
152	8.52	33.86	2.78	200	7.86	33.99	2.47	26.52	155	0.47
189	8.03	33.98	2.52	250	7.13	34.07	2.01	26.69	140	0.54
219	7.48	34.02	2.37	300	6.70	34.11	1.42	26.78	132	0.60
289	6.82	34.11	1.49	400	5.92	34.17	0.75	26.93	119	0.72
356	5.97	34.13	1.13	500	5.33	34.26	0.40	27.07	106	0.81
422	5.83	34.20	0.61	600	4.87	34.33	0.30	27.18	96	0.90
557	5.00	34.30	0.34	700	4.63	34.39	0.31	27.26	90	0.97
710	4.60	34.40	0.31	800	4.35	34.43	0.36	27.32	85	1.03
876	4.14	34.45	0.43	1000	(3.83)	(34.47)		(27.40)	(77)	(1.13)

HORIZON; May 11, 1953; 1515 GCT; 33°48.5'N, 121°53'W; sounding, 2000 fm; wind, 340°, force 6; weather, partly cloudy; sea, very rough; wire angle, 32°.

80.70

0	13.63	33.13	6.22	0	13.63	33.13	6.22	24.84	312	0.00
8	13.62	33.19	6.13	10	13.63	33.19	6.16	24.89	308	0.03
21	13.64	33.13	6.73	20	13.65	33.13	6.73	24.84	313	0.06
34	13.60	33.15	5.89	30	13.63	33.15	6.00	24.86	312	0.09
50	12.32	33.14	6.13	50	12.32	33.14	6.13	25.11	288	0.15
62	11.88	33.19	5.77	75	11.83	33.24	5.81	25.28	273	0.22
77	11.82	33.24	5.81	100	11.06	33.22	5.57	25.40	261	0.29
97	11.10	33.22	5.62	150	9.46	33.59	3.75	25.96	208	0.40
118	10.80	33.51	5.21	200	8.37	33.89	2.70	26.37	170	0.50
140	9.82	33.55	4.22	250	7.85	33.99	2.28	26.52	156	0.58
183	8.70	33.81	2.88	300	7.31	34.04	1.76	26.64	146	0.65
227	8.02	33.96	2.51	400	6.07	34.11	0.93	26.86	125	0.77
275	7.64	-	-	500	5.45	34.18	0.53	26.99	115	0.88
366	6.38	34.09	1.14							
575	5.10	34.23	0.41							

HORIZON; May 11, 1953; 0515 GCT; 33°06'N, 123°01.5'W; sounding, 2300 fm; wind, 360°, force 6; weather, clear; sea, very rough; wire angle, 40°.

80.90

0	13.50	32.94		0	13.50	32.94		24.72	324	0.00
8	13.50	32.98		10	13.50	32.98		24.75	320	0.03
16	13.50	32.95		20	13.49	32.95		24.73	323	0.06
28	13.46	32.96		30	13.41	32.96		24.75	320	0.10
42	12.11	32.94		50	11.86	32.95		25.05	294	0.16
54	11.68	32.96		75	11.03	33.13		25.34	267	0.23
64	11.18	32.99		100	9.71	33.17		25.59	242	0.29
79	10.98	33.14		150	8.78	33.77		26.21	185	0.40
92	9.98	33.16		200	8.00	33.95		26.47	160	0.48
108	9.49	33.20		250	7.28	34.09		26.68	141	0.55
136	8.84	33.57		300	6.76	34.07		26.74	136	0.62
168	8.72	33.88		400	6.07	34.09		26.85	127	0.74
193	8.16	33.93								
260	7.16	34.10								
340	6.47	34.04								
430	5.90	34.13								

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

80.100

HORIZON; May 10, 1953; 2053 GCT; 32°30.5'N, 123°57.5'W; sounding, 2300 fm; wind, 360°, force 6; weather, cloudy; sea, very rough; wire angle, 42°.

0	15.15	33.20	5.84	0	15.15	33.20	5.84	24.57	337	0.00
8	15.14	33.20	5.82	10	15.13	33.20	5.83	24.58	338	0.03
19	15.13	33.17	5.82	20	15.13	33.17	5.84	24.55	340	0.07
41	15.12	33.20	5.80	30	15.13	33.18	5.82	24.56	340	0.10
59	14.88	33.25	5.92	50	15.04	33.23	5.87	24.62	335	0.17
80	14.32	33.22	5.95	75	14.46	33.23	5.96	24.74	323	0.25
118	13.42	33.16	5.96	100	13.87	33.18	5.97	24.83	316	0.33
153	11.17	33.16	5.61	150	11.31	33.16	5.67	25.31	271	0.48
190	10.03	33.43	4.79	200	9.63	33.49	4.43	25.86	219	0.60
218	8.92	33.59	4.14	250	8.38	33.79	3.85	26.29	178	0.69
288	7.88	33.92	3.48	300	7.67	33.92	3.31	26.50	160	0.77
345	6.86	33.92	2.65	400	6.14	33.97	1.79	26.35	174	0.93
411	6.06	33.99	1.66	500	5.49	34.09	1.02	26.92	121	1.06
542	5.29	34.13	0.81	600	5.03	34.19	0.62	27.05	109	1.16
691	4.70	34.28	0.42	700	4.69	34.29	0.43	27.17	98	1.24
862	4.20	34.36	0.47	800	4.39	34.34	0.42	27.24	91	1.31
				1000	(3.84)	(34.38)		(27.33)	(84)	(1.42)

80.110

HORIZON; May 10, 1953; 1639 GCT; 32°25'N, 124°27'W; sounding, 2350 fm; wind, 360°, force 5; weather, cloudy; sea, rough; wire angle, 25°.

0	15.00	33.22	5.70	0	15.00	33.22	5.70	24.62	330	0.00
8	15.00	33.26	6.26	10	15.01	33.26	6.23	24.65	330	0.03
18	15.07	33.23	5.85	20	15.01	33.22	5.81	24.62	334	0.07
31	15.00	33.19	5.71	30	15.00	33.19	5.72	24.60	336	0.10
49	14.36	33.12	5.93	50	14.31	33.12	6.00	24.69	368	0.17
63	14.07	33.13	6.13	75	13.89	33.16	5.95	24.81	317	0.25
76	13.84	33.16	5.95	100	13.37	33.12	6.01	24.88	311	0.32
97	13.45	33.13	5.98	150	11.40	33.04	5.90	25.20	281	0.47
117	12.85	32.96	6.32	200	9.17	33.64	3.50	26.05	203	0.59
141	12.02	32.97	6.10	250	8.49	33.99	2.56	26.43	166	0.68
183	9.48	33.51	4.08	300	7.92	34.03	2.23	26.55	155	0.75
229	8.78	33.85	2.74	400	6.91	34.12	1.36	26.76	136	0.89
267	8.28	34.02	2.46	500	6.12	34.20	0.72	26.93	120	1.00
358	7.32	34.04	1.73							
451	6.46	34.21	0.94							
552	5.77	34.18	0.52							

80.120

HORIZON; May 10, 1953; 1043 GCT; 32°06'N, 125°16'W; sounding, 2400 fm; wind, 360°, force 5; weather, clear; sea, rough; wire angle, 35°.

0	15.78	33.42	5.62	0	15.78	33.42	5.62	24.60	335	0.00
8	15.78	33.41	5.76	10	15.78	33.41	5.77	24.60	336	0.03
20	15.77	33.38	5.77	20	15.77	33.38	5.77	24.57	338	0.07
45	15.79	33.41	5.74	30	15.77	33.39	5.75	24.58	338	0.10
66	15.39	33.42	5.80	50	15.77	33.41	5.77	24.60	336	0.17
88	15.34	33.45	5.78	75	15.33	33.43	5.80	24.71	327	0.25
132	14.18	33.50	5.65	100	15.25	33.47	5.74	24.76	323	0.33
173	11.42	33.46	5.15	150	13.00	33.49	5.50	25.24	277	0.48
216	9.85	33.55	4.94	200	10.44	33.48	5.01	25.71	233	0.61
253	8.38	33.84	3.64	250	8.42	33.82	3.70	26.31	177	0.70
336	7.06	34.01	2.40	300	7.56	33.97	2.83	26.55	154	0.78
419	6.14	33.86	1.72	400	6.31	33.88	1.86	26.65	145	0.92
504	5.44	34.07	1.07	500	5.47	34.06	1.07	26.90	122	1.04
675	4.68	34.32	0.38	600	4.97	34.24	0.58	27.10	104	1.14
860	4.10	34.37	0.44	700	4.59	34.33	0.40	27.21	94	1.22
1052	3.62	34.47	0.75	800	4.28	34.37	0.44	27.28	88	1.28
				1000	3.72	34.44	0.64	27.39	78	1.38

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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HORIZON; May 10, 1953; 0452 GCT; 31°46'N, 126°01'W; sounding, 2400 fm; wind, 020°, force 5; weather, clear; sea, rough; wire angle, 36°.

80.130

0	15.29	33.16	5.95	0	15.29	33.16	5.95	24.51	343	0.00
8	15.30	33.12	5.89	10	15.32	33.12	5.88	24.47	347	0.03
20	15.31	33.14	5.93	20	15.31	33.14	5.93	24.49	346	0.07
40	14.47	33.12	6.18	30	15.09	33.13	6.10	24.53	342	0.10
60	13.98	33.10	6.16	50	14.16	33.11	6.17	24.72	326	0.17
78	13.82	33.11	6.00	75	13.86	33.11	6.04	24.78	320	0.25
120	12.80	33.16	5.68	100	13.59	33.14	5.82	24.86	313	0.33
155	9.97	33.10	5.22	150	10.14	33.11	5.33	25.48	255	0.47
193	9.07	33.38	4.38	200	8.90	33.48	4.21	25.97	209	0.58
227	8.36	33.75	3.72	250	8.03	33.83	3.39	26.37	171	0.68
299	7.42	33.96	2.83	300	7.43	33.97	2.78	26.57	152	0.75
370	6.74	34.13	1.58	400	6.47	34.09	1.23	26.80	132	0.88
448	6.09	34.04	0.94	500	5.68	34.08	0.77	26.89	124	1.00
603	5.01	34.19	0.58	600	5.03	34.19	0.58	27.05	109	1.09
765	4.42	34.34	0.38	700	4.66	34.29	0.44	27.17	98	1.18
942	3.94	34.40	0.53	800	4.30	34.36	0.40	27.27	89	1.24
				1000	(3.87)	(34.41)		(27.35)	(82)	(1.35)

HORIZON; May 9, 1953; 2106 GCT; 31°13'N, 127°00'W; sounding, 2000 fm; wind, 020°, force 3; weather, cloudy; sea, rough; wire angle, 13°.

80.145

0	16.61	33.56	5.85	0	16.61	33.56	5.85	24.52	342	0.00
9	16.59	33.53	5.83	10	16.59	33.53	5.83	24.50	343	0.03
24	16.59	33.55	5.69	20	16.59	33.55	5.72	24.52	345	0.07
48	15.70	33.54	6.03	30	16.53	33.55	5.71	24.53	342	0.10
72	15.56	33.57	5.96	50	15.67	33.54	6.05	24.72	325	0.17
95	15.58	33.77	5.87	75	15.56	33.58	5.95	24.78	319	0.25
145	13.15	33.58	5.64	100	15.57	33.77	5.85	24.92	307	0.33
188	9.82	33.49	5.03	150	11.70	33.56	5.59	25.55	248	0.46
230	8.85	33.81	4.47	200	9.50	33.52	4.83	25.90	215	0.58
273	8.11	33.94	4.08	250	8.51	33.89	4.28	26.35	173	0.67
363	6.96	34.01	2.90	300	7.73	33.97	3.79	26.53	157	0.75
450	5.82	34.07	1.57	400	6.43	34.03	2.28	26.75	136	0.89
541	5.14	34.19	0.80	500	5.38	34.13	1.11	26.96	116	1.00
721	4.46	34.39	0.44	600	4.88	34.27	0.58	27.13	101	1.09
899	4.04	34.46	0.52	700	4.52	34.38	0.45	27.26	89	1.16
1090	3.53	34.52	0.90	800	4.29	34.43	0.45	27.32	84	1.22
				1000	3.77	34.49	0.67	27.43	75	1.32

HORIZON; May 9, 1953; 1329 GCT; 30°46'N, 127°59'W; sounding, 2475 fm; wind, 020°, force 4; weather, cloudy; sea, rough; wire angle, 15°.

80.160

0	16.61	33.54	5.80	0	16.61	33.54	5.80	24.51	344	0.00
9	16.64	33.56	5.76	10	16.63	33.56	5.73	24.52	343	0.03
19	16.65	33.55	5.67	20	16.63	33.55	5.67	24.51	344	0.07
33	16.40	33.63	5.84	30	16.44	33.59	5.85	24.58	338	0.10
53	16.08	33.71	5.80	50	16.08	33.70	5.80	24.75	322	0.17
67	16.01	33.75	5.83	75	15.93	33.76	5.91	24.83	315	0.25
81	15.88	33.76	5.93	100	15.97	33.92	5.82	24.94	305	0.32
104	15.97	33.93	5.78	150	15.30	33.95	5.61	25.12	290	0.47
127	15.79	33.94	5.87	200	11.01	33.46	5.37	25.60	244	0.60
153	15.20	33.95	5.57	250	8.75	33.71	4.21	26.17	190	0.71
201	10.94	33.46	5.35	300	8.06	33.96	3.93	26.47	162	0.79
250	8.75	33.71	4.21	400	6.54	34.01	2.48	26.72	139	0.93
293	8.19	33.95	3.98	500	5.62	34.09	1.18	26.90	122	1.05
394	6.62	34.01	2.60	600	(4.99)	(34.21)	(0.63)	(27.07)	(107)	(1.15)
494	5.66	34.08	1.24							
597	5.00	34.20	0.65							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

83.40 E. W. SCRIPPS; April 30, 1953; 1841 GCT; 34°14'N, 119°22'W; sounding, 14 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	11.89	33.72		0	11.89	33.72		25.64	236	0.00
5	11.88	33.72		10	11.87	33.74		25.66	235	0.02
10	11.87	33.74								
15	11.38	33.73								

83.40 HORIZON; May 15, 1953; 0341 GCT; 34°14'N, 119°22'W; sounding, 20 fm; wind, 270°, force 4; weather, partly cloudy; sea, very rough; wire angle, 15°.

0	12.00	33.75	6.73	0	12.00	33.75	6.73	25.64	236	0.00
10	12.00	33.80	6.79	10	12.00	33.80	6.79	25.68	233	0.02
19	11.74	33.88	6.36							

83.40 PAOLINA-T; May 27, 1953; 2125 GCT; 34°14.5'N, 119°22'W; sounding, 13 fm; wind, 270°, force 1; weather, partly cloudy; sea, slight; wire angle, 19°.

0	13.45	-		0	13.45					
9	12.42	-		10	12.28					
23	10.23	33.89		20	10.60					

83.43 E. W. SCRIPPS; April 30, 1953; 2014 GCT; 34°08.5'N, 119°31.5'W; sounding, 130 fm; wind, 250°, force 3; weather, partly cloudy; sea, moderate; wire angle, 15°.

0	12.16	33.70		0	12.16	33.70		25.57	243	0.00
9	12.09	33.70		10	12.07	33.70		25.59	241	0.02
33	10.86	-		20	11.98	33.71		25.61	239	0.05
48	10.40	33.82		30	11.20	33.74		25.78	224	0.07
72	9.52	33.94		50	10.30	33.83		26.01	202	0.11
96	9.44	34.00		75	9.52	33.95		26.23	181	0.16
120	9.30	34.13		100	9.42	34.02		26.30	175	0.20
149	9.18	34.14		150	(9.17)	(34.14)		(26.44)	(163)	(0.29)

83.43 HORIZON; May 15, 1953; 0200 GCT; 34°08'N, 119°36'W; sounding, 135 fm; wind, 270°, force 8; weather, partly cloudy; sea, high; wire angle, 50°.

0	11.34	33.85	5.92	0	11.34	33.85	5.92	25.84	217	0.00
7	11.31	33.80	5.92	10	11.32	33.80	5.93	25.80	221	0.02
17	11.32	33.80	5.91	20	11.32	33.81	5.92	25.81	220	0.04
33	11.28	33.83	5.92	30	11.28	33.83	5.94	25.83	218	0.07
49	10.48	33.83	4.44	50	10.39	33.83	4.27	25.99	204	0.11
64	10.16	33.87	3.20	75	10.07	33.89	2.80	26.09	194	0.16
102	9.79	33.92	3.87r	100	9.81	33.92	2.21	26.16	188	0.20
136	9.16	34.04	1.66							

83.43 PAOLINA-T; May 27, 1953; 1915 GCT; 34°08'N, 119°34'W; sounding, 146 fm; wind, 300°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	12.75	33.83		0	12.75	33.83		25.56	244	0.00
10	11.50	33.86		10	11.50	33.86		25.82	219	0.02
25	10.96	33.92		20	11.10	33.90		25.92	210	0.04
50	10.54	-		30	10.86	33.93		25.99	197	0.06
75	9.68	33.96		50	10.54	33.94		26.05	198	0.10
100	9.22	34.08		75	9.68	33.96		26.21	183	0.15
155	9.21	34.22		100	9.22	34.08		26.38	168	0.20
205	8.92	34.34		150	9.21	34.21		26.49	159	0.28
				200	8.95	34.33		26.62	146	0.35

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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E. W. SCRIPPS; May 1, 1953; 0040 GCT; 33°58.5'N, 119°55'W; sounding, 130 fm; wind, 300°, force 5; weather, partly cloudy; sea, rough; wire angle, 17°.

8348

0	11.32	33.66		0	11.32	33.66		25.70	231	0.00
9	11.31	33.64		10	11.31	33.64		25.68	233	0.02
19	11.18	33.66		20	11.16	33.66		25.72	229	0.05
28	10.85	33.68		30	10.80	33.68		25.80	221	0.07
48	10.27	33.77		50	10.23	33.78		25.98	205	0.11
72	9.76	33.89		75	(9.74)	(33.90)		(26.16)	188	(0.16)

HORIZON; May 16, 1953; 0953 GCT; 33°58.5'N, 119°55'W; sounding, 50 fm; wind, 280°, force 5; weather, clear; sea, rough; wire angle, 08°.

8348

0	10.79	33.84	4.74	0	10.79	33.84	4.74	25.93	208	0.00
10	10.78	33.84	4.60	10	10.78	33.84	4.60	25.93	208	0.02
20	10.41	33.92	3.86	20	10.41	33.92	3.86	26.06	197	0.04
30	10.36	33.89	3.92	30	10.36	33.89	3.92	26.04	198	0.06
48	10.10	33.96	3.32							

PAOLINA-T; May 28, 1953; 1703 GCT; 33°59.5'N, 119°55.5'W; sounding, 90 fm; wind, 260°, force 1; weather, overcast; sea, moderate; wire angle, 05°.

8348

0	11.07	-		0	11.07	(33.77)		(25.83)	(218)	(0.00)
10	10.88	33.77		10	10.88	33.77		25.86	215	0.02
20	10.36	33.76		20	10.36	33.76		25.94	208	0.04
30	9.90	33.92		30	9.90	33.92		26.15	189	0.06
50	9.42	34.07		50	9.42	34.07		26.34	170	0.10
76	9.16	34.22		75	9.16	34.22		26.50	155	0.14

HORIZON; May 16, 1953; 1224 GCT; 33°52'N, 120°09'W; sounding, 180 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 35°.

8351

0	10.88	33.81	5.73	0	10.88	33.81	5.73	25.89	212	0.00
8	10.82	33.84	5.40	10	10.81	33.84	5.40	25.93	209	0.02
20	10.78	33.84	5.40	20	10.78	33.84	5.40	25.93	209	0.04
39	10.77	33.84	5.40	30	10.78	33.84	5.40	25.93	209	0.06
60	10.52	33.85	4.51	50	10.67	33.84	5.28	25.95	208	0.10
79	9.64	33.91	2.84	75	9.70	33.90	3.00	26.16	188	0.15
121	9.24	34.02	2.18	100	9.42	33.97	2.42	26.27	179	0.20
161	8.88	34.10	1.87	150	8.93	34.08	1.93	26.43	164	0.28
201	8.84	34.16	1.67	200	8.84	34.16	1.67	26.51	157	0.36
245	8.63	34.18	1.51	250	(8.61)	(34.18)	(1.48)	(26.56)	(153)	(0.43)

PAOLINA-T; May 28, 1953; 1914 GCT; 33°52.5'N, 120°08'W; sounding, 65 fm; wind, 220°, force 2; weather, overcast; sea, moderate; wire angle, 01°.

8351

0	10.84	33.87		0	10.84	33.87		25.94	207	0.00
10	10.64	33.86		10	10.64	33.86		25.97	205	0.02
20	10.58	33.90		20	10.58	33.90		26.01	201	0.04
30	10.43	33.90		30	10.43	33.90		26.04	199	0.06
50	10.18	-		50	10.18	34.00		26.16	187	0.10
75	9.36	34.12		75	9.36	34.12		26.39	166	0.14
100	9.25	34.13		100	9.25	34.13		26.42	164	0.18

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

83.55 HORIZON; May 16, 1953; 1515 GCT; 33°44.5'N, 120°24.5'W; sounding, 750 fm; wind, 300°, force 5; weather, overcast; sea, rough; wire angle, 18°.

0	10.96	33.60	5.93	0	10.96	33.60	5.93	25.71	229	0.00
9	10.95	33.64	5.89	10	10.94	33.64	5.89	25.75	226	0.02
19	10.96	33.64	5.98	20	10.94	33.64	5.98	25.75	226	0.04
33	10.96	33.67	5.85	30	10.94	33.66	5.90	25.76	225	0.07
52	10.44	33.76	4.96	50	10.53	33.75	5.10	25.91	212	0.11
68	9.94	33.79	3.89	75	9.67	33.79	3.35	26.08	195	0.16
82	9.42	33.78	3.03	100	8.93	33.87	2.56	26.27	178	0.21
104	8.82	33.87	2.53	150	7.99	33.91	2.55	26.44	162	0.29
126	8.36	33.86	2.57	200	7.66	33.95	2.09	26.52	156	0.37
152	7.98	33.92	2.55	250	7.34	34.08	1.63	26.67	152	0.44
200	7.66	33.95	2.09	300	7.07	34.13	1.18	26.75	136	0.50
251	7.34	34.08	1.63	400	6.83	34.25	0.64	26.87	125	0.62
294	7.09	34.12	1.25	500	6.29	34.39	0.50	27.06	109	0.73
396	6.85	34.24	0.65	600	(5.57)	(34.31)	(0.34)	(27.08)	(106)	(0.82)
495	6.33	34.39	0.52							
598	5.59	34.31	0.33							

83.55 PAOLINA-T; May 28, 1953; 2200 GCT; 33°44'N, 120°24.5'W; sounding, 540 fm; wind, 290°, force 1; weather, overcast; sea, rough; wire angle, 15°.

0	12.26	-		0	12.26	(33.81)		(25.64)	(236)	(0.00)
10	11.92	33.81		10	11.92	33.81		25.70	231	0.02
24	11.12	33.79		20	11.40	33.79		25.78	223	0.05
48	10.06	33.92		30	10.90	33.79		25.87	215	0.07
72	9.62	34.02		50	10.00	33.93		26.14	190	0.11
96	9.40	34.14		75	9.60	34.04		26.29	176	0.15
149	9.12	-		100	9.37	34.15		26.41	164	0.20
198	8.72	-		150	9.12	34.16		26.46	161	0.28
295	7.56	34.23		200	8.70	34.18		26.54	154	0.35
397	6.86	34.31		250	8.04	34.20		26.66	143	0.42
495	6.22	-		300	7.50	34.23		26.76	134	0.49
598	5.75	-		400	6.83	(34.31)		(26.92)	(120)	(0.60)
				500	6.20					
				600	(5.75)					

83.60 HORIZON; May 16, 1953; 1820 GCT; 33°36'N, 120°46'W; sounding, 900 fm; wind, 310°, force 5; weather, overcast; sea, very rough; wire angle, 20°.

0	10.92	33.64	5.97	0	10.92	33.64	5.97	25.75	226	0.00
9	10.88	33.67	6.02	10	10.88	33.67	6.02	25.78	223	0.02
18	10.84	33.69	5.79	20	10.83	33.69	5.73	25.81	220	0.04
32	10.76	33.73	5.59	30	10.75	33.73	5.60	25.85	217	0.07
51	10.56	33.79	5.26	50	10.55	33.79	5.26	25.93	209	0.11
64	10.36	33.76	4.79	75	10.34	33.76	4.75	25.95	208	0.16
78	10.34	33.76	4.74	100	8.96	33.66	3.20	26.10	194	0.21
99	8.95	33.66	3.26	150	8.87	34.02	2.03	26.39	168	0.30
120	9.10	33.92	2.44	200	8.38	34.18	1.39	26.56	152	0.38
144	8.92	34.00	2.11	250	7.98	34.19	1.13	26.66	143	0.45
188	8.48	34.16	1.47	300	7.53	34.21	0.92	26.74	136	0.51
237	8.10	34.19	1.21	400	6.77	34.25	0.59	26.88	124	0.63
278	7.72	34.20	1.01	500	6.19	34.29	0.40	26.99	115	0.74
375	6.94	34.24	0.67							
473	6.34	34.29	0.43							
576	5.82	34.29	0.36							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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PAOLINA-T; May 29, 1953; 0127 GCT; 33°34.5'N, 120°43'W; sounding, 700 fm; wind, 270°, force 2; weather, overcast; sea, moderate; wire angle, 05°.

83.60

0	12.37	33.75		0	12.37	33.75		25.57	243	0.00
10	12.32	33.72		10	12.32	33.72		25.55	245	0.02
25	12.21	33.70		20	12.28	33.70		25.55	245	0.05
50	10.58	33.74		30	12.00	33.70		25.60	241	0.07
75	9.62	33.78		50	10.58	33.74		25.89	213	0.12
99	9.22	33.86		75	9.62	33.78		26.08	195	0.17
153	8.74	34.09		100	9.22	33.87		26.22	183	0.22
201	8.20	34.19		150	8.78	34.08		26.45	162	0.30
298	7.50	34.25		200	8.22	34.19		26.63	146	0.38
400	6.79	34.34		250	7.84	34.22		26.71	139	0.44
497	6.36	34.37		300	7.48	34.25		26.78	132	0.51
602	5.54	34.42		400	6.79	34.34		26.95	118	0.62
				500	6.34	34.37		27.03	111	0.72
				600	5.56	34.42		27.17	98	0.81

HORIZON; May 16, 1953; 2355 GCT; 33°14'N, 121°27'W; sounding, 2100 fm; wind, 310°, force 5; weather, cloudy; sea, rough; wire angle, 35°.

83.70

0	11.53	33.46	6.39	0	11.53	33.46	6.39	25.50	249	0.00
8	11.50	33.46	6.32	10	11.50	33.46	6.28	25.51	249	0.02
16	11.49	33.46	6.27	20	11.47	33.45	6.26	25.51	249	0.05
28	11.38	33.42	5.28	30	11.35	33.42	6.25	25.50	250	0.08
45	11.26	33.48	5.96	50	11.21	33.47	5.29	25.57	244	0.12
56	10.42	33.41	5.05	75	9.50	33.36	4.44	25.78	224	0.18
69	9.77	33.35	4.74	100	8.93	33.65	3.39	26.09	195	0.24
85	9.25	33.46	3.83	150	8.59	34.00	2.13	26.42	164	0.32
101	8.93	33.66	3.39	200	8.09	34.11	1.73	26.58	150	0.40
122	8.63	33.79	3.09	250	7.85	34.19	1.33	26.68	141	0.48
157	8.56	34.03	2.00	300	7.51	34.20	1.14	26.74	136	0.54
197	8.11	34.10	1.75	400	6.74	34.27	0.60	26.90	122	0.67
229	7.98	34.19	1.45	500	(6.11)	(34.30)	(0.41)	(27.01)	(113)	(0.79)
310	7.43	34.20	1.10							
399	6.76	34.27	0.61							
495	6.14	34.30	0.41							

HORIZON; May 17, 1953; 0445 GCT; 32°55'N, 122°11'W; sounding, 2250 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 25°.

83.80

0	13.79	33.04	6.10	0	13.79	33.04	6.10	24.74	322	0.00
9	13.78	32.97	6.29	10	13.78	32.97	6.29	24.69	327	0.03
18	13.79	33.10	6.26	20	13.78	33.10	6.23	24.79	318	0.06
32	13.78	33.03	6.10	30	13.78	33.03	6.12	24.73	323	0.10
49	13.78	33.07	6.37	50	13.77	33.07	6.35	24.77	320	0.16
62	13.75	33.05	6.18	75	12.02	33.09	6.34	25.12	287	0.24
76	12.01	33.09	6.34	100	9.98	33.13	5.40	25.52	250	0.30
94	10.51	33.12	5.58	150	8.58	33.69	3.62	26.18	187	0.41
112	9.42	33.21	4.81	200	8.07	33.93	2.81	26.44	163	0.50
132	8.95	33.55	3.88	250	7.42	34.04	2.09	26.63	147	0.57
170	8.28	33.80	3.37	300	6.93	34.09	1.50	26.73	137	0.64
214	7.94	33.97	2.54	400	5.90	34.12	0.97	26.89	122	0.75
251	7.40	34.04	2.09	500	5.21	34.15	0.66	27.00	113	0.86
342	6.51	34.12	1.17							
434	5.61	34.12	0.89							
534	5.06	34.20	0.58							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{\text{cm}^3}{\text{g}}$	dyn.m

83.90 HORIZON; May 17, 1953; 0917 GCT; 32°35'N, 122°47.5'W; sounding, 2400 fm; wind, 310°, force 5; weather, cloudy; sea, rough; wire angle, 39°.

0	14.65	33.16	6.10	0	14.65	33.16	6.10	24.65	330	0.00
8	14.64	33.20	6.01	10	14.64	33.22	5.97	24.70	326	0.03
16	14.65	33.24	5.96	20	14.64	33.24	5.90	24.71	325	0.06
26	14.64	33.20	5.87	30	14.66	33.20	5.86	24.68	328	0.10
43	14.66	33.20	5.89	50	14.59	33.16	5.94	24.66	330	0.16
52	14.52	33.16	5.98	75	12.97	33.11	6.05	24.96	303	0.24
64	13.53	33.16	6.05	100	11.10	33.11	5.77	25.31	270	0.31
80	12.72	33.10	6.02	150	8.92	33.46	4.19	25.95	210	0.43
96	11.73	33.10	5.83	200	8.13	33.87	3.24	26.39	168	0.52
116	10.16	33.16	5.44	250	7.31	33.96	2.79	26.58	151	0.60
149	8.98	33.46	4.22	300	6.83	33.99	2.39	26.67	143	0.67
184	8.44	33.74	3.48	400	6.26	34.14	1.02	26.86	125	0.79
215	7.86	33.94	3.09	500	(5.59)	(34.20)		(26.99)	(114)	(0.90)
284	6.95	33.97	2.55							
366	6.48	34.11	1.24							
459	5.89	34.18	0.79							

85.39 E. W. SCRIPPS; April 30, 1953; 1417 GCT; 34°00'N, 119°04.5'W; sounding, 335 fm; wind, 280°, force 5; weather, partly cloudy; sea, rough; wire angle, 10°.

0	11.62	33.62		0	11.62	33.62		25.61	239	0.00
10	11.58	33.67		10	11.58	33.67		25.66	235	0.02
20	11.48	33.64		20	11.48	33.64		25.65	235	0.05
30	10.59	33.61		30	10.59	33.61		25.79	223	0.07
49	10.26	33.74		50	10.24	33.75		25.96	207	0.11
74	9.78	33.88		75	(9.78)	(33.88)		(26.14)	191	(0.16)

85.39 HORIZON; May 15, 1953; 2303 GCT; 34°00'N, 119°04'W; sounding, 400 fm; wind, 280°, force 5; weather, partly cloudy; sea, high; wire angle, 30°.

0	11.52	33.69	4.60	0	11.52	33.69	4.60	25.68	232	0.00
8	11.49	33.75	4.66	10	11.50	33.76	4.64	25.74	227	0.02
17	11.51	33.77	4.64	20	11.50	33.77	4.05	25.75	226	0.04
30	10.16	33.77	2.84	30	10.16	33.77	2.84	25.99	204	0.07
44	9.91	33.74	2.66	50	9.77	33.84	2.62	26.11	193	0.11
56	9.64	33.92	2.58	75	9.40	33.96	2.30	26.26	179	0.15
68	9.51	33.92	2.49	100	9.37	34.09	1.84	26.37	169	0.20
84	9.34	34.06	2.00	150	9.18	34.18	1.55	26.47	159	0.28
103	9.37	34.10	1.82	200	8.88	34.32	1.29	26.63	146	0.35
125	9.29	34.18	1.81	250	8.54	34.38	0.86	26.73	138	0.42
163	9.14	34.19	1.41	300	8.08	34.32	0.80	26.75	136	0.48
200	8.88	34.32	1.29	400	7.06	34.28	0.62	26.86	126	0.60
240	8.63	34.38	0.94	500	6.41	34.28	0.46	26.95	118	0.71
325	7.82	34.30	0.78							
415	6.94	34.28	0.59							
511	6.33	34.28	0.47							

85.39 PAOLINA-T; May 28, 1953; 0105 GCT; 34°00'N, 119°04'W; sounding, 105 fm; wind, 270°, force 4; weather, partly cloudy; sea, rough; wire angle, 24°.

0	12.78	33.62		0	12.78	33.62		25.39	260	0.00
9	12.75	33.67		10	12.74	33.67		25.43	256	0.03
23	11.56	33.66		20	11.90	33.66		25.59	241	0.05
45	9.72	33.83		30	10.98	33.67		25.76	225	0.07
69	9.34	33.82		50	9.58	33.83		26.13	191	0.12
91	9.46	34.05		75	9.35	33.82		26.16	188	0.16
114	9.35	34.10		100	9.42	34.07		26.34	171	0.21
141	9.24	34.23		150	(9.21)	(34.24)		(26.51)	(157)	(0.29)

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

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E. W. SCRIPPS; April 30, 1953; 1120 GCT; 33°57'N, 119°10.5'W; sounding, 400 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 30°.

8540

0	11.91	33.65		0	11.91	33.65		25.58	242	0.00
8	11.90	-		10	11.88	33.68		25.61	239	0.02
22	11.81	33.70		20	11.83	33.70		25.63	237	0.05
44	10.77	33.68		30	11.66	33.69		25.66	235	0.07
64	10.00	33.78		50	10.47	33.68		25.86	216	0.12
86	9.67	-		75	9.79	33.86		26.12	192	0.17
129	9.43	34.05		100	9.59	33.99		26.25	180	0.21
170	8.92	34.05		150	9.18	34.05		26.37	170	0.30
252	8.24	34.25		200	8.66	34.11		26.50	158	0.38
340	7.58	34.27		250	8.26	34.25		26.67	143	0.45
429	6.91	34.30		300	7.89	34.27		26.74	137	0.52
529	6.22	34.42		400	7.13	34.28		26.86	127	0.64
				500	6.42	34.39		27.04	110	0.74

HORIZON; May 16, 1953; 0120 GCT; 33°56.5'N, 119°11'W; sounding, 440 fm; wind, 290°, force 5; weather, partly cloudy; sea, rough; wire angle, 32°.

8540

0	11.73	33.76	5.85	0	11.73	33.76	5.85	25.70	230	0.00
8	11.72	33.71	5.69	10	11.72	33.71	5.65	25.66	234	0.02
18	11.68	33.75	5.60	20	11.67	33.75	5.55	25.70	231	0.05
32	11.56	33.73	5.39	30	11.58	33.73	5.45	25.70	231	0.07
50	10.18	33.72	2.94	50	10.18	33.72	2.94	25.94	208	0.11
63	10.02	33.74	2.76	75	9.70	33.81	2.73	26.09	194	0.16
76	9.70	33.81	2.72	100	9.49	33.92	2.56	26.21	183	0.21
99	9.49	33.92	2.59	150	9.23	34.09	2.04	26.39	168	0.30
121	9.40	34.01	2.23	200	8.94	34.18	1.59	26.51	158	0.37
148	9.26	34.09	2.04	250	8.62	34.25	1.02	26.64	145	0.45
195	8.97	34.17	1.66	300	7.88	34.28	0.85	26.75	136	0.51
247	8.68	34.24	1.04	400	6.83	34.27	0.57	26.90	123	0.63
290	8.00	34.28	0.89	500	6.22	34.30	0.35	26.99	114	0.74
390	6.95	34.27	0.60							
454	6.44	34.30	0.42							
532	6.08	34.30	0.33							

PAOLINA-T; May 28, 1953; 0300 GCT; 33°56.5'N, 119°10'W; sounding, 490 fm; wind, 200°, force 4; weather, partly cloudy; sea, rough; wire angle, 30°.

8540

0	12.54	33.57		0	12.54	33.57		25.40		
8	12.42	-		10	12.22					
22	10.76	33.61		20	10.96					
44	9.80	33.80		30	10.32					
64	9.56	-		50	9.73					
83	9.36	-		75	9.39					
126	9.48	-		100	9.40					
166	9.46	34.34		150	9.47					
248	8.70	34.36		200	9.18					
338	7.67	-		250	8.67					
428	7.00	-		300	8.04					
526	6.22	34.43		400	7.20					
				500	6.43					

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

85.45

E. W. SCRIPPS; April 30, 1953; 0530 GCT; 33°47'N, 119°31'W; sounding, 1000 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 35°.

0	12.98	33.52		0	12.98	33.52		25.27	271	0.00
8	12.94	33.51		10	12.94	33.51		25.27	271	0.03
24	12.90	33.49		20	12.91	33.49		25.26	273	0.05
50	10.67	33.69		30	12.87	33.49		25.27	272	0.08
73	9.80	33.80		50	10.67	33.69		25.83	219	0.13
95	9.38	33.96		75	9.75	33.81		26.09	195	0.18
142	9.12	-		100	9.33	33.98		26.29	177	0.23
190	8.59	34.12		150	9.06	34.08		26.41	165	0.31
290	7.80	34.26		200	8.49	34.13		26.54	154	0.39
389	6.96	-		250	8.11	34.21		26.66	144	0.46
496	6.33	34.38		300	7.73	34.27		26.76	134	0.52
607	5.72	34.34		400	6.90	34.32		26.92	121	0.64
				500	6.31	34.38		27.04	110	0.74
				600	5.76	34.34		27.08	107	0.83

85.45

HORIZON; May 16, 1953; 0548 GCT; 33°46.5'N, 119°31'W; sounding, 1800 fm; wind, 290°, force 6; weather, clear; sea, rough; wire angle, 30°.

0	12.67	33.56	5.74	0	12.67	33.56	5.74	25.36	262	0.00
8	12.68	33.54	5.59	10	12.69	33.54	5.56	25.34	264	0.03
17	12.67	33.56	5.55	20	12.63	33.56	5.53	25.37	262	0.05
25	12.56	33.56	5.33	30	12.40	33.56	5.01	25.42	258	0.08
47	9.69	33.83	2.79	50	9.67	33.83	2.78	26.11	192	0.12
60	9.64	33.84	2.80	75	9.48	33.83	2.52	26.15	189	0.17
72	9.53	33.84	2.58	100	9.02	33.99	2.20	26.35	171	0.22
92	9.02	33.99	2.23	150	8.71	34.06	1.83	26.45	162	0.30
111	9.01	33.99	2.17	200	8.37	34.18	1.38	26.60	149	0.37
133	8.82	34.02	1.96	250	7.94	34.24	1.06	26.71	137	0.44
174	8.57	34.12	1.65	300	7.50	34.26	0.84	26.79	132	0.50
219	8.20	34.21	1.23	400	6.82	34.31	0.50	26.92	120	0.62
257	7.90	34.24	1.02	500	6.39	34.35	0.38	27.01	113	0.72
352	7.05	34.29	0.64							
447	6.60	34.33	0.42							
550	6.22	34.36	0.38							

85.45

PAOLINA-T; May 27, 1953; 1121 GCT; 33°47'N, 119°33.5'W; sounding, 1100 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 20°.

0	11.70	33.62		0	11.70	33.62		25.59	241	0.00
10	11.78	33.64		10	11.78	33.64		25.60	241	0.02
24	11.80	-		20	11.80	33.67		25.61	239	0.05
53	9.56	33.88		30	11.80	33.72		25.65	235	0.07
78	9.32	33.94		50	9.64	33.86		26.14	189	0.11
107	9.10	34.10		75	9.33	33.93		26.25	180	0.16
159	9.25	34.33		100	9.12	34.06		26.38	167	0.20
213	8.58	34.27		150	9.24	34.32		26.57	151	0.28
318	7.70	34.34		200	8.72	34.28		26.62	147	0.35
428	6.84	34.32		250	8.26	34.28		26.69	141	0.42
536	6.09	34.42		300	7.84	34.33		26.79	127	0.48
642	5.46	34.38		400	7.05	34.32		26.90	123	0.60
				500	6.32	34.38		27.04	110	0.70
				600	5.71	34.40		27.14	102	0.79

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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E. W. SCRIPPS; April 30, 1953; 0122 GCT; 33°37'N, 119°52'W; sounding, 150 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 14°.

85.50

0	13.24	33.47		0	13.24	33.47		25.18	280	0.00
9	13.02	33.50		10	13.03	33.50		25.25	274	0.03
24	12.95	33.50		20	12.97	33.50		25.26	273	0.06
48	10.35	33.64		30	12.90	33.51		25.28	271	0.08
72	9.86	33.81		50	10.31	33.66		25.87	215	0.13
97	9.50	33.94		75	9.81	33.83		26.09	195	0.18
121	9.22	33.93		100	9.46	33.94		26.24	181	0.23
151	9.11	-		150	9.12					

HORIZON; May 14, 1953; 1937 GCT; 33°38.5'N, 119°55.5'W; sounding, 115 fm; wind, 270°, force 8; weather, partly cloudy; sea, very high; wire angle, 42°.

85.50

0	11.78	33.67	5.45	0	11.78	33.67	5.45	25.62	238	0.00
8	11.71	33.66	5.37	10	11.67	33.66	5.00	25.63	237	0.02
19	10.50	33.80	3.91	20	10.48	33.80	3.78	25.95	206	0.05
37	10.28	33.82	3.42	30	10.35	33.81	3.55	25.98	204	0.07
57	9.80	33.89	2.83	50	9.97	33.86	3.04	26.09	195	0.11
75	9.30	33.97	2.26	75	9.30	33.97	2.26	26.28	176	0.15
95	9.03	34.09	1.80	100	8.97	34.09	1.77	26.43	163	0.19
120	8.92	34.09	1.72							

PAOLINA-T; May 27, 1953; 0653 GCT; 33°35'N, 119°50.5'W; sounding, 290 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 25°.

85.50

0	12.80	33.74		0	12.80	33.74		25.48	255	0.00
9	12.74	33.76		10	12.72	33.76		25.51	249	0.02
23	11.46	33.73		20	11.90	33.74		25.65	235	0.05
45	9.64	33.96		30	10.90	33.73		25.83	219	0.07
68	9.33	34.07		50	9.55	33.99		26.26	178	0.11
90	9.10	34.16		75	9.26	34.11		26.40	165	0.15
140	8.61	34.27		100	9.00	34.19		26.50	156	0.19
187	8.36	34.32		150	8.56	34.28		26.64	144	0.27
233	7.94	34.36		200	8.26	34.33		26.73	136	0.33
331	7.28	34.38		250	7.82	34.37		26.83	128	0.40
378	6.80	34.34		300	7.52	34.38		26.88	123	0.46
426	6.52	34.41		400	6.66	34.38		27.00	113	0.56

E. W. SCRIPPS; April 29, 1953; 2057 GCT; 33°27'N, 120°12.5'W; sounding, 630 fm; wind, 290°, force 2; weather, overcast; sea, moderate; wire angle, 19°.

85.55

0	12.96	-		0	12.96	(33.56)		(25.31)	(268)	(0.00)
9	12.60	33.56		10	12.58	33.56		25.38	261	(0.03)
23	12.29	33.52		20	12.37	33.52		25.39	261	(0.05)
51	10.34	33.66		30	11.91	33.54		25.50	251	(0.08)
74	9.63	33.70		50	10.40	33.66		25.86	216	(0.12)
101	9.14	34.00		75	9.61	33.70		26.02	201	(0.18)
151	8.74	-		100	9.17	34.00		26.33	172	(0.22)
201	8.51	-		150	8.76	(34.12)		(26.49)	(158)	(0.30)
303	8.02	34.27		200	8.52	(34.16)		(26.56)	(153)	(0.38)
410	7.16	34.28		250	8.30	(34.21)		(26.63)	(147)	(0.45)
515	6.39	34.37		300	8.05	34.27		26.71	139	(0.52)
622	5.67	34.36		400	7.24	34.28		26.84	129	(0.64)
				500	6.52	34.36		26.92	121	(0.75)
				600	5.82	34.36		27.09	106	(0.85)

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{ cm}^3/\text{g}$	dyn. m

85.55

HORIZON; May 14, 1953; 1448 GCT; 33°26.5'N, 120°14.5'W; sounding, 650 fm; wind, 280°, force 4; weather, overcast; sea, moderate; wire angle, 10°.

0	11.51	33.59	5.96	0	11.51	33.59	5.96	25.61	239	0.00
10	11.46	33.60	5.93	10	11.46	33.60	5.93	25.62	238	0.02
20	11.45	33.63	5.92	20	11.45	33.63	5.92	25.65	236	0.05
34	11.24	33.56	5.58	30	11.32	33.56	5.69	25.62	239	0.07
49	10.50	33.62	4.76	50	10.41	33.62	4.73	25.83	220	0.12
63	9.86	33.66	3.97	75	9.54	33.80	3.09	26.11	193	0.17
77	9.46	33.81	3.09	100	8.98	33.85	2.78	26.24	181	0.21
95	9.17	33.84	2.86	150	8.52	34.16	1.72	26.56	152	0.30
118	8.69	33.93	2.50	200	8.30	34.25	1.26	26.66	142	0.37
144	8.54	34.13	1.83	250	8.03	34.25	1.11	26.70	140	0.43
187	8.36	34.25	1.33	300	7.70	34.29	0.97	26.78	133	0.50
230	8.14	34.24	1.12	400	6.98	34.32	0.59	26.91	122	0.61
274	7.90	34.27	1.06	500	6.33	34.27	0.45	26.96	118	0.72
368	7.20	34.32	0.70							
459	6.60	34.31	0.49							
558	5.99	34.20	0.41							

85.55

PAOLINA-T; May 27, 1953; 0227 GCT; 33°26'N, 120°11.5'W; sounding, 720 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 22°.

0	13.04	33.62		0	13.04	33.62		25.34	265	0.00
9	12.34	33.70		10	12.30	33.70		25.54	245	0.02
23	11.96	33.77		20	12.00	33.76		25.65	236	0.05
46	11.74	33.82		30	11.88	33.79		25.70	232	0.07
69	9.34	33.82		50	11.50	33.82		25.79	223	0.12
93	8.61	-		75	9.02	33.83		26.22	182	0.17
144	8.18	34.14		100	8.53	33.94		26.38	167	0.21
191	7.98	34.28		150	8.14	34.16		26.61	146	0.29
283	7.45	34.36		200	7.92	34.29		26.75	134	0.36
380	6.70	34.35		250	7.66	34.34		26.83	128	0.43
474	6.17	34.42		300	7.32	34.36		26.81	129	0.49
575	5.87	34.44		400	6.57	34.36		26.99	113	0.61
				500	6.07	34.43		27.11	103	0.72

85.60

HORIZON; May 14, 1953; 1134 GCT; 33°17'N, 120°33.5'W; sounding, 1600 fm; wind, 270°, force 4; weather, overcast; sea, moderate; wire angle, 15°.

0	12.58	33.51	6.02	0	12.58	33.51	6.02	25.34	265	0.00
9	12.56	33.48	6.01	10	12.55	33.48	6.05	25.32	266	0.03
19	12.50	33.48	6.25	20	12.47	33.48	6.25	25.34	265	0.05
34	12.11	33.56	6.22	30	12.23	33.56	6.26	25.45	255	0.08
48	11.74	33.55	5.87	50	11.60	33.55	5.65	25.56	245	0.13
61	10.78	33.58	5.08	75	10.40	33.59	4.97	25.80	222	0.19
76	10.42	33.59	4.97	100	9.35	33.80	3.30	26.14	190	0.24
94	9.55	33.73	3.71	150	8.37	33.93	2.51	26.40	166	0.32
116	8.93	33.89	2.80	200	7.68	34.06	2.08	26.60	148	0.40
143	8.50	33.92	2.58	250	7.61	34.19	1.33	26.72	138	0.47
184	7.86	34.02	2.20	300	7.60	34.23	1.03	26.75	136	0.53
227	7.56	34.12	1.89	400	6.90	34.27	0.63	26.88	124	0.65
269	7.69	34.22	1.11	500	6.26	34.32	0.39	27.00	113	0.76
361	7.16	34.25	0.78							
452	6.56	34.31	0.47							
554	5.96	34.33	0.33							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

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PAOLINA-T; May 26, 1953; 2251 GCT; 33°17'N, 120°33.5'W; sounding, 720 fm; wind, 300°, force 1; weather, partly cloudy; sea, moderate; wire angle, 20°.

85.60

0	13.84	33.39		0	13.84	33.39		25.00	297	0.00
10	12.74	33.41		10	12.74	33.41		25.23	275	0.03
24	11.91	33.48		20	12.14	33.46		25.39	261	0.06
47	11.06	33.57		30	11.62	33.50		25.52	248	0.08
69	10.70	33.86		50	11.00	33.60		25.71	230	0.13
92	9.65	33.88		75	10.43	33.87		26.02	202	0.18
141	8.76	34.04		100	9.46	33.90		26.20	184	0.23
185	8.30	34.13		150	8.66	34.06		26.46	161	0.31
277	7.61	34.21		200	8.18	34.15		26.60	148	0.39
375	6.92	34.30		250	7.80	34.19		26.69	141	0.46
470	6.42	34.37		300	7.44	34.23		26.77	134	0.52
573	5.72	34.42		400	6.79	34.32		26.93	119	0.64
				500	6.22	34.39		27.06	108	0.74

E. W. SCRIPPS; May 1, 1953; 1007 GCT; 33°50'N, 118°38'W; sounding, 350 fm; wind, 330°, force 2; weather, clear; sea, rough; wire angle, 00°.

87.35

0	12.46	33.58		0	12.46	33.58		25.42	257	0.00
10	12.48	33.58		10	12.48	33.58		25.42	258	0.03
25	10.56	33.50		20	12.49	33.51		25.36	263	0.05
50	9.90	33.70		30	10.32	33.51		25.76	226	0.08
75	9.58	33.94		50	9.90	33.70		25.98	205	0.12
99	9.44	33.97		75	9.58	33.94		26.22	183	0.17
153	9.30	34.23		100	9.44	33.97		26.26	179	0.21
200	9.02	34.27		150	9.31	34.22		26.48	160	0.29
248	8.69	34.34		200	9.02	34.27		26.56	152	0.37
296	8.17	34.24		250	8.67	34.34		26.67	142	0.44
350	7.58	34.32		300	8.13	34.24		26.68	143	0.51

HORIZON; May 18, 1953; 2000 GCT; 33°51'N, 118°36.5'W; sounding, 45 fm; wind, 220°, force 1; weather, haze; sea, smooth; wire angle, 00°.

87.35

0	12.92	33.59		0	12.92	33.59		25.34	265	0.00
9	12.04	33.65		10	11.50	33.65		25.65	235	0.02
20	10.31	33.70		20	10.31	33.70		25.91	211	0.05
30	9.90	33.75		30	9.90	33.75		26.01	201	0.07
50	9.73	33.83		50	9.73	33.83		26.10	193	0.11

PAOLINA-T; May 29, 1953; 2328 GCT; 33°49'N, 118°37.5'W; sounding, 350 fm; wind, 270°, force 2; weather, clear; sea, moderate; wire angle, 23°.

87.35

0	14.42	33.60		0	14.42	33.60		25.04	294	0.00
9	13.75	33.60		10	13.62	33.60		25.20	278	0.03
23	12.28	33.58		20	12.70	33.59		25.38	261	0.06
46	9.92	33.78		30	11.43	33.58		25.61	240	0.08
69	9.58	33.94		50	9.80	33.83		26.09	194	0.12
92	9.44	34.02		75	9.54	33.97		26.25	180	0.17
143	9.34	34.27		100	9.40	34.05		26.33	172	0.21
189	9.38	34.42		150	9.35	34.31		26.54	153	0.29
282	8.52	34.40		200	9.34	34.43		26.64	145	0.36
381	7.38	34.34		250	8.90	34.42		26.70	140	0.43
477	6.74	34.35		300	8.30	34.39		26.77	134	0.50
580	6.04	34.41		400	7.24	34.34		26.89	124	0.62
				500	6.60	34.36		26.99	115	0.72
				600	(5.90)	(34.42)		(27.13)	(103)	(0.81)

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

8740

E. W. SCRIPPS; May 1, 1953; 0644 GCT; 33°40'N, 118°59'W; sounding, 470 fm; wind, 300°, force 5; weather, clear; sea, very rough; wire angle, 34°.

0	13.05	33.64		0	13.05	33.64		25.35	264	0.00
8	13.03	33.58		10	13.03	33.57		25.30	269	0.03
25	11.61	33.57		20	13.01	33.57		25.30	269	0.05
49	10.43	33.70		30	11.30	33.58		25.64	237	0.08
70	9.70	33.90		50	10.40	33.71		25.90	213	0.12
90	9.48	34.02		75	9.64	33.93		26.20	185	0.17
108p	9.27	34.10		100	9.36	34.08		26.36	170	0.22
135	8.99	34.11		150	8.84	34.13		26.48	159	0.30
277	7.80	34.35		200	8.43	34.23		26.63	146	0.37
373	6.99	34.33		250	8.04	34.32		26.75	134	0.44
477	6.48	34.35		300	7.58	34.35		26.85	126	0.50
584	5.83	34.42		400	6.83	34.33		26.94	119	0.61
				500	6.37	34.36		27.02	112	0.71
				600	(5.73)	(34.43)		(27.16)	(100)	(0.80)

8740

HORIZON; May 18, 1953; 1720 GCT; 33°40'N, 118°58.5'W; sounding, 510 fm; wind, 110°, force 1; weather, cloudy; sea, slight; wire angle, 10°.

0	15.27	33.53	6.19	0	15.27	33.53	6.19	24.80	316	0.00
10	15.11	33.53	6.11	10	15.11	33.53	6.11	24.84	313	0.03
20	14.51	33.52	6.25	20	14.51	33.52	6.25	24.96	302	0.06
34	11.56	33.47	4.70	30	13.00	33.48	5.78	25.24	275	0.09
49	10.11	33.72	3.02	50	10.10	33.72	2.92	25.96	207	0.14
63	9.86	33.79	2.68	75	9.56	33.88	2.66	26.17	187	0.19
77	9.56	33.88	2.65	100	9.51	33.95	2.53	26.23	182	0.23
95	9.52	33.93	2.59	150	9.19	34.12	2.02	26.42	165	0.32
117	9.45	34.03	2.33	200	8.78	34.16	1.59	26.52	156	0.40
142	9.24	34.12	2.10	250	8.16	34.29	1.07	26.71	138	0.47
183	9.01	34.09	1.72	300	7.66	34.32	0.78	26.81	130	0.53
224	8.34	34.23	1.38	400	6.92	34.31	0.65	26.91	122	0.64
269	8.00	34.32	0.91	500	6.29	34.32	0.43	27.00	114	0.75
361	7.13	34.31	0.70							
453	6.61	34.31	0.53							
554	5.90	34.34	0.33							

8740

PAOLINA-T; May 29, 1953; 2035 GCT; 33°40'N, 118°58.5'W; sounding, 530 fm; wind, 300°, force 1; weather, clear; sea, slight; wire angle, 10°.

0	14.43	33.57		0	14.43	33.57		25.01	276	0.00
10	13.64	33.53		10	13.64	33.53		25.15	283	0.03
25	10.54	33.64		20	11.40	33.59		25.63	238	0.06
49	9.68	33.75		30	10.20	33.67		25.90	212	0.08
73	9.50	33.94		50	9.66	33.76		26.06	197	0.12
97	9.07	34.01		75	9.40	33.95		26.25	179	0.16
149	9.16	34.36		100	9.06	34.04		26.38	168	0.21
197	9.10	34.40		150	9.16	34.37		26.62	146	0.28
292	8.22	34.42		200	9.09	34.40		26.65	143	0.35
394	7.08	34.38		250	8.66	34.42		26.74	136	0.42
493	6.16	34.42		300	8.14	34.42		26.82	130	0.48
596	5.50	34.42		400	7.01	34.38		26.95	118	0.60
				500	6.10	34.42		27.10	104	0.69
				600	(5.48)	(34.42)		(27.18)	(97)	(0.77)

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{cm^3}{g}$	dyn. m

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HORIZON; May 18, 1953; 1427 GCT; 33°30'N, 119°20.5'W; sounding, 900 fm; wind, 050°, force 2; weather, clear; sea, moderate; wire angle, 02°.

87.45

0	12.89	33.59	5.57	0	12.89	33.59	5.57	25.34	264	0.00
10	12.73	33.63	5.39	10	12.73	33.63	5.39	25.41	259	0.03
20	12.06	33.57	4.97	20	12.06	33.57	4.97	25.49	251	0.05
35	9.80	33.87	2.85	30	10.01	33.84	3.10	26.07	196	0.07
50	9.40	33.92	2.50	50	9.40	33.92	2.50	26.23	181	0.11
64	9.34	33.97	2.42	75	9.28	33.97	2.31	26.29	176	0.16
78	9.25	33.97	2.29	100	9.07	34.08	2.02	26.41	165	0.20
98	9.08	34.07	2.02	150	8.81	34.20	1.45	26.54	153	0.28
119	9.04	34.14	1.89	200	8.31	34.16	1.38	26.59	150	0.35
146	8.86	34.20	1.48	250	7.88	34.25	1.03	26.72	137	0.42
190	8.40	34.15	1.42	300	7.48	34.26	0.84	26.79	132	0.48
233	8.05	34.24	1.11	400	6.73	34.31	0.56	26.93	119	0.59
277	7.65	34.25	0.91	500	6.03	34.36	0.37	27.06	107	0.69
372	6.97	34.29	0.62							
464	6.30	34.35	0.41							
564	5.66	34.37	0.32							

PAOLINA-T; May 29, 1953; 1726 GCT; 33°30.5'N, 119°18'W; sounding, 640 fm; wind, 360°, force 1; weather, overcast; sea, slight; wire angle, 07°.

87.45

0	13.50	33.67		0	13.50	33.67		25.28	270	0.00
10	13.36	33.63		10	13.36	33.63		25.28	271	0.03
25	12.87	33.66		20	13.10	33.64		25.34	265	0.05
49	9.50	33.92		30	11.60	33.71		25.68	234	0.08
74	9.16	34.03		50	9.50	33.93		26.22	182	0.12
98	8.94	34.12		75	9.14	34.03		26.36	169	0.16
151	8.63	34.20		100	8.93	34.13		26.47	159	0.20
199	8.34	34.29		150	8.66	34.20		26.57	151	0.28
296	7.57	-		200	8.33	34.29		26.69	140	0.35
397	6.96	34.30		250	7.92	34.29		26.75	135	0.42
496	6.40	34.34		300	7.54	34.29		26.80	130	0.48
599	5.88	34.39		400	6.94	34.30		26.90	123	0.59
				500	6.37	34.34		27.01	113	0.70
				600	(5.87)	(34.39)		(27.11)	(104)	(0.79)

HORIZON; May 18, 1953; 1146 GCT; 33°21'N, 119°37.5'W; sounding, 50 fm; wind, 310°, force 4; weather, clear; sea, slight; wire angle, 08°.

87.50

0	12.37	33.60	5.60	0	12.37	33.60	5.60	25.45	254	0.00
10	12.36	33.64	5.39	10	12.36	33.64	5.39	25.49	251	0.02
20	12.22	33.63	5.26	20	12.22	33.63	5.26	25.50	249	0.05
30	12.02	33.62	5.23	30	12.02	33.62	5.23	25.53	247	0.08
49	10.64	33.75	4.26	50	10.56	33.75	4.20	25.90	212	0.12
74	9.40	33.89	2.85	75	(9.36)	(33.90)	(2.86)	(26.22)	(182)	(0.17)

PAOLINA-T; May 29, 1953; 1410 GCT; 33°20'N, 119°39.5'W; sounding, 44 fm; wind, 300°, force 1; weather, partly cloudy; sea, moderate; wire angle, 00°.

87.50

0	13.18	33.61		0	13.18	33.61		25.30	269	0.00
10	13.06	33.67		10	13.06	33.67		25.37	262	0.03
20	12.88	33.63		20	12.88	33.63		25.38	261	0.05
30	11.82	33.76		30	11.82	33.76		25.68	233	0.08
50	9.42	33.91		50	9.42	33.91		26.22	181	0.12

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{m^3}{g}$	dyn.m

87.55

HORIZON; May 18, 1953; 0750 GCT; 33°01'N, 119°59.5'W; sounding, 525 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 27°.

0	12.21	33.52	6.00	0	12.21	33.52	6.00	25.42	257	0.00
9	12.16	33.53	6.42	10	12.16	33.53	6.42	25.44	255	0.03
18	12.14	33.50	5.94	20	12.11	33.50	5.94	25.42	257	0.05
33	11.83	33.57	5.91	30	11.85	33.56	5.91	25.52	248	0.08
49	11.84	33.58	5.76	50	11.84	33.58	5.76	25.54	247	0.13
63	11.73	33.60	6.18	75	11.20	33.52	5.70	25.61	241	0.19
75	11.20	33.52	5.70	100	9.12	33.51	3.46	25.95	208	0.24
96	9.24	33.50	4.00	150	8.39	33.88	2.90	26.36	170	0.33
115	8.85	33.75	3.15	200	8.02	34.06	2.09	26.55	152	0.41
138	8.51	33.84	3.08	250	7.74	34.12	1.66	26.64	145	0.48
180	8.20	33.99	2.30	300	7.51	34.18	1.26	26.72	138	0.55
226	7.82	34.12	1.85	400	6.79	34.23	0.62	26.86	126	0.67
266	7.69	34.13	1.56	500	6.15	34.24	0.38	26.95	118	0.78
361	7.07	34.23	0.79							
458	6.40	34.22	0.47							
560	5.84	34.30	0.33							

87.55

PAOLINA-T; May 29, 1953; 1058 GCT; 33°12.5'N, 119°55.5'W; sounding, 500 fm; wind, 310°, force 1; weather, overcast; sea, slight; wire angle, 08°.

0	12.91	33.42		0	12.91	33.42		25.21	279	0.00
10	12.90	33.40		10	12.90	33.40		25.19	279	0.03
25	12.80	33.47		20	12.86	33.43		25.23	276	0.06
50	11.96	33.39		30	12.70	33.47		25.29	271	0.08
74	10.08	-		50	11.96	33.39		25.37	263	0.14
98	9.28	33.70		75	10.04	33.48		25.78	224	0.20
150	8.47	34.07		100	9.20	33.73		26.11	193	0.25
199	8.20	34.17		150	8.47	34.07		26.49	158	0.33
295	7.45	34.33		200	8.19	34.17		26.61	147	0.41
397	6.53	34.34		250	7.82	34.26		26.74	134	0.48
494	6.30	34.42		300	7.40	34.33		26.86	125	0.54
598	5.67	34.46		400	6.53	34.34		26.98	114	0.64
				500	6.27	34.42		27.08	106	0.74
				600	(5.64)	(34.46)		(27.19)	(95)	(0.82)

87.60

HORIZON; May 18, 1953; 0448 GCT; 32°56'N, 120°24'W; sounding, 525 fm; wind, 310°, force 5; weather, overcast; sea, moderate; wire angle, missing.

0	12.86	33.40	6.22	0	12.86	33.40	6.22	25.20	278	0.00
9	12.82	33.40	6.20	10	12.82	33.40	6.18	25.21	277	0.03
19	12.85	33.46	6.08	20	12.85	33.46	6.06	25.25	274	0.06
32	12.84	33.41	6.05	30	12.83	33.41	6.05	25.22	277	0.08
50	12.73	33.40	5.93	50	12.73	33.40	5.93	25.23	276	0.14
64	10.90	33.34	5.18	75	9.66	33.28	4.51	25.69	233	0.20
76	9.67	33.28	4.51	100	9.65	33.64	3.89	25.97	207	0.26
97	9.68	33.61	4.00	150	8.34	33.92	2.63	26.40	167	0.35
117	8.93	33.75	3.05	200	7.87	33.99	2.42	26.52	156	0.42
141	8.43	33.90	2.66	250	7.23	34.04	1.89	26.65	144	0.50
184	8.02	33.96	2.53	300	6.84	34.08	1.45	26.74	136	0.56
231	7.52	34.03	2.07	400	6.38	34.18	0.65	26.88	124	0.68
271	7.00	34.05	1.73	500	5.82	34.23	0.43	26.99	114	0.79
364	6.58	34.17	0.81							
458	6.05	34.20	0.51							
560	5.55	34.30	0.36							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

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PAOLINA-T; May 29, 1953; 0708 GCT; 33°02'N, 120°18'W; sounding, 400 fm; wind, 270°, force 1; weather, overcast; sea, moderate; wire angle, 07°

87.60

0	13.61	33.21		0	13.61	33.21		24.91	306	0.00
10	13.62	-		10	13.62	33.18		24.88	209	0.03
25	12.60	33.17		20	13.10	33.17		24.98	300	0.06
49	11.50	-		30	12.30	33.17		25.13	285	0.09
73	10.84	33.34		50	11.50	33.23		25.33	267	0.14
97	9.74	33.40		75	10.80	33.34		25.54	247	0.21
149	8.54	-		100	9.65	33.43		25.81	222	0.27
199	7.79	34.04		150	8.53	33.82		26.29	177	0.36
296	7.06	-		200	7.76	34.04		26.58	150	0.44
399	6.50	34.32		250	7.34	34.15		26.72	135	0.51
498	5.91	-		300	7.02	34.22		26.82	128	0.58
602	5.32	34.42		400	6.49	34.32		26.97	115	0.69
				500	5.90	34.38		27.10	104	0.78
				600	5.34	34.42		27.20	96	0.86

HORIZON; May 18, 1953; 0030 GCT; 32°41'N, 121°01.5'W; sounding, 2200 fm; wind, 310°, force 5; weather, overcast; sea, moderate; wire angle, 23°

87.70

0	14.00	33.19	6.11	0	14.00	33.19	6.11	24.81	316	0.00
9	13.98	33.17	6.11	10	13.98	33.17	6.14	24.80	316	0.03
18	13.95	33.16	6.20	20	13.92	33.16	6.23	24.80	316	0.06
32	13.36	33.22	6.33	30	13.59	33.20	6.33	24.90	307	0.09
50	11.75	33.30	5.96	50	11.75	33.30	5.96	25.34	266	0.15
64	11.40	33.32	6.11	75	11.22	33.35	5.64	25.48	254	0.22
76	11.21	33.35	5.64	100	9.62	33.40	4.18	25.79	224	0.28
96	9.84	33.39	4.43	150	8.75	33.80	3.22	26.24	182	0.37
116	9.13	33.57	3.76	200	8.17	33.99	2.65	26.48	160	0.46
141	8.83	33.74	3.36	250	7.46	34.03	2.28	26.61	148	0.53
183	8.37	33.95	2.78	300	7.03	34.09	1.77	26.72	138	0.60
230	7.70	34.03	2.46	400	6.27	34.28	0.94	26.97	115	0.71
270	7.26	34.03	2.08	500	5.63	34.23	0.48	27.01	113	0.81
364	6.56	34.30	1.17							
458	5.86	34.20	0.67							
557	5.38	34.32	0.37							

HORIZON; May 17, 1953; 1850 GCT; 32°10'N, 121°44.5'W; sounding, 1950 fm; wind, 360°, force 5; weather, partly cloudy; sea, rough; wire angle, 23°

87.80

0	14.03	33.17	6.01	0	14.03	33.17	6.01	24.79	315	0.00
9	13.96	33.14	6.07	10	13.94	33.14	6.06	24.78	318	0.03
18	13.94	33.16	6.03	20	13.93	33.16	6.05	24.80	316	0.06
32	13.92	33.16	6.10	30	13.92	33.16	6.09	24.80	316	0.10
50	13.90	33.16	6.04	50	13.90	33.16	6.04	24.81	316	0.16
64	12.62	33.18	6.13	75	12.28	33.23	6.06	25.18	281	0.23
77	12.25	33.23	6.05	100	12.03	33.28	6.04	25.27	274	0.30
98	12.08	33.28	6.04	150	9.22	33.48	3.97	25.91	213	0.42
119	11.40	33.26	5.49	200	8.50	33.80	3.14	26.28	179	0.52
142	9.46	33.41	4.16	250	7.83	34.05	2.12	26.57	152	0.60
185	8.72	33.70	3.34	300	7.32	34.15	1.07	26.73	138	0.66
231	8.11	33.99	2.59	400	6.72	34.28	0.45	26.91	121	0.78
271	7.58	34.09	1.55	500	6.27	34.32	0.36	27.00	114	0.89
367	6.87	34.25	0.58							
464	6.42	34.31	0.38							
568	5.99	34.32	0.37							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

87.90 HORIZON; May 17, 1953; 1446 GCT; 31°57'N, 122°17'W; sounding, 2300 fm; wind, 330°, force 5; weather, cloudy; sea, rough; wire angle, 20°.

0	13.88	33.15	6.10	0	13.88	33.15	6.10	24.80	316	0.00
9	13.89	33.16	6.03	10	13.89	33.16	6.05	24.81	350	0.03
18	13.89	33.14	6.13	20	13.89	33.14	6.14	24.79	317	0.06
32	13.88	33.16	6.04	30	13.89	33.16	6.07	24.81	316	0.10
52	13.62	33.16	6.19	50	13.72	33.16	6.17	24.84	313	0.16
66	12.70	33.20	6.20	75	11.90	33.23	5.86	25.26	274	0.23
79	11.74	33.24	5.74	100	11.36	33.39	5.57	25.48	254	0.30
101	11.32	33.39	5.56	150	9.07	33.65	3.62	26.07	198	0.41
120	10.05	33.41	4.75	200	8.22	33.95	2.85	26.44	164	0.50
146	9.18	33.61	3.69	250	7.67	34.06	2.34	26.61	148	0.57
190	8.38	33.92	2.95	300	7.23	34.12	1.65	26.72	138	0.64
239	7.80	34.04	2.49	400	6.73	34.20	0.72	26.85	127	0.76
279	7.38	34.10	1.95	500	6.10	34.31	0.37	27.02	112	0.86
377	6.88	34.18	0.89							
474	6.26	34.28	0.43							
575	5.58	34.38	0.33							

90.28 HORIZON; May 6, 1953; 0355 GCT; 33°28.5'N, 117°46.5'W; sounding, 35 fm; wind, 310°, force 2; weather, partly cloudy; sea, calm; wire angle, 00°.

0	15.32	33.51	7.27	0	15.32	33.51	7.27	24.77	319	0.00
10	13.47	33.48	6.82	10	13.47	33.48	6.82	25.14	284	0.03
20	11.12	33.47	4.20	20	11.12	33.47	4.20	25.58	242	0.06
30	10.42	33.52	3.56	30	10.42	33.52	3.56	25.75	227	0.08

90.30 HORIZON; May 6, 1953; 0559 GCT; 33°23'N, 117°55.5'W; sounding, 315 fm; wind, 310°, force 2; weather, partly cloudy; sea, calm; wire angle, 06°.

0	16.02	33.49	6.13	0	16.02	33.49	6.13	24.60	335	0.00
10	15.34	33.50	6.12	10	15.34	33.50	6.12	24.76	320	0.03
25	14.40	33.45	5.98	20	14.80	33.46	6.03	24.85	312	0.06
50	10.06	33.47	3.87	30	14.09	33.45	5.74	24.99	299	0.10
74	9.70	33.65	3.48	50	10.06	33.47	3.87	25.77	225	0.15
98	9.68	33.87	2.92	75	9.70	33.66	3.48	25.98	205	0.20
148	9.28	34.09	2.16	100	9.67	33.88	2.85	26.15	189	0.25
192	8.93	34.19	1.74	150	9.24	34.10	2.13	26.40	167	0.34
236	8.75	34.26	1.27	200	8.89	34.21	1.62	26.54	154	0.41
279	7.81	34.21	1.37	250	8.50	34.25	1.28	26.63	146	0.49
328	7.57	34.25	0.88	300	7.70	34.22	1.20	26.73	138	0.55
374	7.27	34.28	0.65							

90.37 HORIZON; May 6, 1953; 1001 GCT; 33°11.5'N, 118°23.5'W; sounding, 650 fm; wind, calm; weather, partly cloudy; sea, calm; wire angle, 01°.

0	14.43	33.50	6.39	0	14.43	33.50	6.39	24.96	301	0.00
10	14.52	33.49	6.42	10	14.52	33.49	6.42	24.93	303	0.03
25	13.22	33.46	6.06	20	14.25	33.47	6.33	24.97	300	0.06
40	11.04	33.51	4.18	30	12.50	33.46	5.37	25.32	267	0.09
55	10.12	33.66	3.50	50	10.41	33.62	3.61	25.83	220	0.14
70	9.55	33.72	3.31	75	9.51	33.78	3.22	26.10	194	0.19
89	9.46	33.87	2.87	100	9.45	33.93	2.69	26.23	182	0.24
112	9.43	33.99	2.54	150	9.19	34.15	2.01	26.44	162	0.32
140	9.28	34.13	2.10	200	8.72	34.20	1.72	26.56	153	0.40
185	8.84	34.19	1.83	250	8.12	34.21	1.27	26.66	144	0.47
229	8.43	34.21	1.42	300	7.61	34.22	1.03	26.74	137	0.53
246	8.19	34.21	1.29	400	6.83	34.30	0.54	26.91	121	0.65
367	7.10	34.26	0.69	500	6.18	34.36	0.40	27.05	109	0.75
458	6.46	34.35	0.44							
553	5.91	34.35	0.38							
559	5.86	34.35	0.28r							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn.m

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HORIZON; May 6, 1953; 1439, 1505 GCT; 32°54.5'N, 118°56.5'W; sounding, 920 fm; wind, 290°, force 2; weather, clear; sea, smooth; wire angle, 00°, 00°.

90.45

0	15.06	33.42	6.26	0	15.06	33.42	6.26	24.76	320	0.00
10	14.26	33.38	6.20	10	14.26	33.38	6.20	24.90	308	0.03
25	13.81	33.40	6.35	20	13.82	33.38	6.31	24.99	297	0.06
50	11.51	33.44	4.23	30	13.80	33.43	6.34	25.04	294	0.09
74	9.90	33.65	3.22	50	11.51	33.44	4.73	25.49	252	0.14
97	9.43	33.84	2.79	75	9.84	33.67	3.22	25.96	207	0.20
147	9.01	34.04	2.21	100	9.40	33.85	2.72	26.17	187	0.25
191	8.60	34.09	1.85	150	8.97	34.04	2.18	26.39	167	0.34
235	8.13	34.20	1.49	200	8.53	34.11	1.76	26.52	156	0.42
				250	7.97	34.21	1.35	26.68	142	0.49
31	13.80	33.43	6.33	300	7.60	34.21	0.97	26.73	137	0.55
123	9.30	33.94	2.46	400	6.87	34.24	0.53	26.86	126	0.67
212	8.46	34.15	1.69	500	6.16	34.29	0.35	26.99	114	0.78
307	7.55	34.21	0.92	600	5.54	34.34	0.28	27.11	104	0.87
500	6.16	34.29	0.35	700	5.12	34.39	0.31	27.20	96	0.95
692	5.14	34.39	0.31	800	4.77	34.43	0.36	27.27	90	1.02
893	4.34	34.47	0.40	1000	(4.12)	(34.50)		(27.40)	(79)	(1.12)

HORIZON; May 6, 1953; 1755 GCT; 32°46.5'N, 119°17'W; sounding, 220 fm; wind, 240°, force 1; weather, partly cloudy; sea, slight; wire angle, 00°.

90.50

0	15.14	33.43	6.06	0	15.14	33.43	6.06	24.75	321	0.00
10	14.80	33.43	6.04	10	14.80	33.43	6.04	24.83	314	0.03
25	13.48	33.50	6.50	20	14.05	33.46	6.32	25.01	297	0.06
50	10.13	33.69	3.43	30	11.50	33.54	6.43	25.57	244	0.09
74	9.89	33.63	3.45	50	10.13	33.69	3.43	25.93	210	0.13
97	9.58	33.77	3.09	75	9.88	33.63	3.45	25.92	210	0.19
146	9.11	34.03	2.37	100	9.51	33.80	3.00	26.12	193	0.24
189	8.88	34.11	2.12	150	9.08	34.04	2.33	26.37	169	0.32
231	8.36	34.23	1.69	200	8.72	34.14	2.05	26.51	158	0.40
275	8.08	34.25	0.82	250	8.21	34.24	1.20	26.67	143	0.48

HORIZON; May 6, 1953; 2142 GCT; 32°35'N, 119°41'W; sounding, 200 fm; wind, 270°, force 3; weather, partly cloudy; sea, slight; wire angle, 10°.

90.55

0	14.59	33.26	6.25	0	14.59	33.26	6.25	24.74	322	0.00
10	13.44	33.24	6.42	10	13.44	33.24	6.42	24.96	301	0.03
25	12.89	33.31	6.27	20	13.00	33.26	6.34	25.07	291	0.06
49	12.41	33.40	6.16	30	12.81	33.35	6.22	25.17	281	0.09
72	11.08	33.38	5.31	50	12.37	33.40	6.15	25.30	270	0.14
95	10.43	33.55	4.78	75	10.97	33.38	5.24	25.54	247	0.21
144	8.82	33.84	2.08	100	10.23	33.60	4.58	25.84	219	0.27
187	8.63	34.08	2.04	150	8.77	33.87	2.05	26.29	177	0.36
230	7.87	34.12	1.66	200	8.51	34.10	1.97	26.51	157	0.44
277	7.52	34.15	1.42	250	7.63	34.13	1.53	26.67	143	0.52

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

90.60 HORIZON; May 6, 1953; 2309 GCT; 32°25'N, 119°57.5'W; sounding, 540 fm; wind, 310°, force 2; weather, partly cloudy; sea, slight; wire angle, 15°.

0	16.36	33.35	6.09	0	16.36	33.35	6.09	24.42	352	0.00
10	14.20	33.37	6.32	10	14.20	33.37	6.32	24.91	306	0.03
19	13.48	33.35	6.34	20	13.40	33.35	6.33	25.06	292	0.06
34	12.89	33.32	6.24	30	13.04	33.32	6.29	25.11	288	0.09
48	11.84	33.35	6.03	50	11.72	33.35	5.98	25.38	262	0.15
62	11.24	33.32	5.50	75	10.11	33.35	4.65	25.67	235	0.21
75	10.11	33.35	4.65	100	9.01	33.52	3.81	25.98	205	0.26
93	9.20	33.47	3.98	150	8.69	33.91	2.60	26.33	173	0.36
115	8.83	33.66	3.43	200	8.42	34.15	1.76	26.56	152	0.43
139	8.77	33.84	2.89	250	8.09	34.23	1.27	26.68	142	0.50
180	8.49	34.08	2.08	300	7.56	34.26	0.96	26.78	133	0.57
223	8.32	34.20	1.48	400	6.77	34.31	0.52	26.93	120	0.68
267	7.92	34.24	1.17	500	6.19	34.33	0.37	27.02	112	0.78
358	7.04	34.29	0.61							
448	6.52	34.32	0.43							
546	5.87	34.33	0.31							

90.70 HORIZON; May 7, 1953; 0426, 0502 GCT; 32°03'N, 120°39'W; sounding, 2000 fm; wind, 310°, force 3; weather, partly cloudy; sea, slight; wire angle, 35°, 40°.

0	14.51	33.12	6.20	0	14.51	33.12	6.20	24.65	330	0.00
8	14.36	33.14	6.27	10	14.24	33.14	6.27	24.72	324	0.03
20	13.61	33.12	6.29	20	13.61	33.12	6.29	24.84	313	0.06
45	13.14	33.12	6.35	30	13.40	33.12	6.31	24.88	309	0.10
65	12.44	33.16	6.24	50	12.97	33.12	6.33	24.96	302	0.16
85	11.93	33.26	6.12	75	12.20	33.21	6.18	25.18	281	0.23
121	10.26	33.30	4.94	100	11.14	33.28	5.87	25.43	258	0.30
155	9.14	33.69	3.36	150	9.28	33.64	3.42	26.03	202	0.41
				200	8.19	33.93	3.20	26.43	165	0.50
194	8.29	33.90	3.29	250	7.63	34.07	1.89	26.62	147	0.57
227	7.90	34.05	2.20	300	7.14	34.11	1.42	26.72	138	0.64
303	7.11	34.11	1.40	400	6.28	34.21	0.66	26.91	120	0.76
374	6.52	34.20	0.79	500	5.57	34.24	0.43	27.03	110	0.86
447	5.88	34.22	0.54	600	5.20	34.34	0.32	27.15	100	0.95
597	5.22	34.34	0.31	700	4.91	34.41	0.31	27.24	92	1.02
761	4.70	34.44	0.35	800	4.55	34.45	0.39	27.31	85	1.08
942	4.06	34.48	0.53	1000	(3.89)	(34.49)		(27.41)	(76)	(1.18)

90.80 HORIZON; May 7, 1953; 0958 GCT; 31°42'N, 121°20'W; sounding, 2200 fm; wind, 290°, force 4; weather, cloudy; sea, rough; wire angle, 25°.

0	14.93	33.22	6.38	0	14.93	33.22	6.38	24.64	331	0.00
9	14.92	33.26	6.21	10	14.91	33.26	6.23	24.67	328	0.03
18	13.04	33.26	6.54	20	12.85	33.26	6.57	25.10	288	0.06
32	12.56	33.29	6.57	30	12.56	33.29	6.58	25.18	281	0.09
49	12.32	33.30	6.38	50	12.31	33.30	6.35	25.23	276	0.15
62	12.09	33.30	6.33	75	11.64	33.37	6.06	25.41	260	0.21
75	11.64	33.37	6.06	100	10.71	33.52	5.22	25.70	233	0.28
95	10.89	33.50	5.35	150	8.70	33.74	3.26	26.20	186	0.38
115	10.10	33.57	4.62	200	8.22	33.98	2.66	26.46	161	0.46
135	9.04	33.64	3.39	250	7.63	34.04	2.11	26.60	150	0.54
176	8.40	33.92	3.02	300	7.25	34.11	1.46	26.70	140	0.60
222	8.00	34.01	2.39	400	6.45	34.20	0.71	26.88	123	0.72
261	7.51	34.05	1.97	500	5.82	34.23	0.46	26.99	114	0.83
357	6.86	34.20	0.84							
455	6.02	34.20	0.58							
556	5.64	34.32	0.34							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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HORIZON; May 7, 1953; 1433 GCT; 31°25'N, 121°59'W; sounding, 2200 fm; wind, 340°, force 4; weather, partly cloudy; sea, moderate; wire angle, 18°.

90.90

0	15.28	33.15	6.02	0	15.28	33.15	6.02	24.51	344	0.00
9	15.24	33.16	5.97	10	15.23	33.16	5.97	24.53	343	0.03
23	14.55	33.16	6.04	20	14.65	33.16	6.05	24.65	331	0.07
52	13.28	33.13	6.30	30	14.10	33.15	6.14	24.76	321	0.10
75	12.55	33.16	6.12	50	13.32	33.13	6.30	24.90	307	0.16
102	10.33	33.13	5.96	75	12.55	33.16	6.12	25.08	292	0.24
148	8.98	33.68	4.10	100	10.42	33.13	5.97	25.44	257	0.30
193	8.29	33.90	3.50	150	8.90	33.70	4.05	26.14	191	0.42
242	7.57	33.95	3.33	200	8.18	33.91	3.51	26.41	167	0.50
285	7.04	34.02	2.54	250	7.48	33.97	3.24	26.56	152	0.58
381	6.05	34.09	1.41	300	6.89	34.03	2.33	26.69	140	0.65
474	5.50	34.15	0.71	400	5.90	34.10	1.25	26.88	124	0.77
567	5.11	34.30	0.38	500	5.38	34.20	0.60	27.02	121	0.87
753	4.52	34.42	0.37	600	5.00	34.33	0.34	27.17	98	0.96
946	3.97	34.47	0.61	700	4.68	34.40	0.35	27.26	90	1.03
1137	3.49	34.51	0.81	800	4.40	34.43	0.46	27.31	85	1.09
				1000	3.83	34.48	0.67	27.41	77	1.19

HORIZON; May 7, 1953; 1921 GCT; 31°08'N, 122°42'W; sounding, 2200 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 15°.

90.100

0	15.88	33.16	5.85	0	15.88	33.16	5.85	24.38	356	0.00
9	15.72	33.16	5.88	10	15.65	33.16	5.88	24.43	351	0.03
19	14.48	33.17	5.96	20	14.42	33.17	5.96	24.71	325	0.07
33	14.18	33.22	5.99	30	14.23	33.21	5.97	24.78	319	0.10
53	13.16	33.26	6.12	50	13.25	33.25	6.13	25.01	297	0.16
67	12.82	33.28	6.12	75	12.60	33.30	6.00	25.18	282	0.24
80	12.34	33.30	5.91	100	10.85	33.27	5.30	25.48	254	0.30
103	10.62	33.27	5.12	150	8.67	33.72	3.40	26.19	186	0.41
124	9.22	33.42	4.27	200	8.03	33.95	3.23	26.47	161	0.49
148	8.73	33.71	3.41	250	7.48	34.04	2.36	26.62	147	0.57
194	8.10	33.93	3.26	300	6.88	34.09	1.91	26.74	136	0.63
244	7.55	34.03	2.44	400	5.98	34.18	0.81	26.93	119	0.75
286	7.04	34.07	2.05	500	5.50	34.26	0.43	27.05	108	0.85
385	6.07	34.17	0.95	600	(5.00)	(34.40)		(27.22)	(93)	(0.93)
483	5.58	34.24	0.44							
585	5.09	34.38	0.30							

HORIZON; May 7, 1953; 2358 GCT; 30°46.5'N, 123°19'W; sounding, 2350 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 14°.

90.110

0	15.81	33.13	5.83	0	15.81	33.13	5.83	24.37	357	0.00
10	15.76	33.15	5.87	10	15.76	33.15	5.87	24.40	352	0.04
25	14.92	33.13	5.99	20	15.35	33.13	5.93	24.48	347	0.07
49	14.20	33.16	6.07	30	14.70	33.13	6.02	24.62	334	0.10
73	13.74	33.12	6.05	50	14.18	33.16	6.07	24.75	322	0.17
95	13.27	33.10	6.04	75	13.72	33.12	6.05	24.81	317	0.25
145	9.90	33.28	4.98	100	13.12	33.10	6.02	24.92	307	0.33
188	8.81	33.69	3.56	150	9.70	33.32	4.82	25.71	232	0.46
231	8.19	33.92	2.88	200	8.62	33.78	3.34	26.24	182	0.56
273	7.62	34.02	2.12	250	7.94	33.97	2.55	26.50	159	0.64
364	6.65	34.14	1.15	300	7.31	34.06	1.74	26.66	144	0.72
451	5.98	34.20	0.66	400	6.33	34.17	0.93	26.88	124	0.84
543	5.41	34.22	0.41	500	5.66	34.20	0.49	26.98	114	0.94
724	4.63	34.42	0.32	600	5.13	34.30	0.35	27.13	102	1.03
903	4.12	34.44	0.48	700	4.71	34.41	0.32	27.26	89	1.11
1097	3.56	34.50	0.73	800	4.40	34.43	0.39	27.31	85	1.17
				1000	3.87	34.47	0.61	27.40	78	1.27

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{3}{\text{cm}^3/\text{g}}$	dyn. m

90.120

HORIZON; May 8, 1953; 0505 GCT; 30°25'N, 124°01'W; sounding, 2000 fm; wind, 330°, force 3; weather, clear; sea, rough; wire angle, 25°.

0	15.84	33.09	5.96	0	15.84	33.09	5.96	24.34	360	0.00
9	15.82	33.12	5.96	10	15.81	33.12	5.96	24.37	357	0.04
18	14.75	33.13	6.08	20	14.73	33.13	6.08	24.61	335	0.07
32	14.62	33.09	6.12	30	14.65	33.09	6.12	24.60	336	0.10
50	13.84	33.10	6.17	50	13.84	33.10	6.17	24.77	320	0.17
63	13.56	33.16	6.26	75	13.36	33.10	6.08	24.87	311	0.25
75	13.36	33.10	6.08	100	12.59	33.01	6.10	24.95	304	0.32
95	12.78	33.00	6.09	150	9.84	33.30	4.44	25.67	236	0.46
112	12.02	33.07	6.11	200	8.47	33.80	3.40	26.28	179	0.56
134	10.80	33.15	5.42	250	7.76	33.95	3.12	26.51	158	0.64
175	8.91	33.58	3.81	300	7.03	34.00	2.21	26.65	145	0.71
218	8.23	33.89	3.26	400	6.23	34.16	1.03	26.88	124	0.83
257	7.65	33.96	3.05	500	5.77	34.27	0.55	27.03	111	0.94
344	6.55	34.05	1.60							
435	6.08	34.21	0.79							
535	5.62	34.29	0.48							

90.130

HORIZON; May 8, 1953; 1014, 1053 GCT; 30°02.5'N, 124°43.5'W; sounding, 2400 fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 39°, 48°.

0	16.63	33.41	5.96	0	16.63	33.41	5.96	24.40	354	0.00
8	16.62	33.45	5.82	10	16.60	33.45	5.82	24.44	351	0.04
20	16.17	33.45	5.81	20	16.17	33.45	5.81	24.54	341	0.07
43	15.27	33.38	5.87	30	15.51	33.42	5.84	24.66	330	0.10
62	15.36	33.52	5.96	50	15.28	33.39	5.92	24.69	328	0.17
82	15.14	33.56	5.82	75	15.27	33.56	5.88	24.82	316	0.25
118	14.37	33.51	5.88	100	14.82	33.54	5.85	24.91	309	0.33
154	12.07	33.47	5.42	150	12.42	33.47	5.50	25.34	278	0.47
				200	9.31	33.64	4.18	26.03	203	0.58
171	10.74	33.48	5.11	250	8.42	33.90	3.63	26.37	171	0.68
202	9.24	33.66	4.13	300	7.72	33.98	2.86	26.54	156	0.75
274	8.07	33.96	3.29	400	6.37	34.08	1.64	26.80	131	0.89
344	7.18	34.01	2.23	500	5.77	34.21	0.76	26.98	116	1.00
411	6.28	34.09	1.52	600	5.22	34.28	0.40	27.10	104	1.09
546	5.53	34.25	0.51	700	4.70	34.33	0.38	27.20	95	1.16
697	4.72	34.33	0.38	800	4.33	34.39	0.46	27.29	87	1.23
869	4.18	34.43	0.55	1000	(3.88)	(34.47)		(27.40)	(78)	(1.33)

90.145

HORIZON; May 8, 1953; 1743 GCT; 29°33.5'N, 125°40'W; sounding, 2400 fm; wind, 360°, force 5; weather, cloudy; sea, rough; wire angle, 28°.

0	16.37	33.30	5.82	0	16.37	33.30	5.82	24.38	356	0.00
8	16.37	33.29	5.69	10	16.37	33.29	5.69	24.37	357	0.04
17	16.36	33.31	5.77	20	16.30	33.31	5.85	24.40	355	0.07
30	15.54	33.27	5.96	30	15.54	33.27	5.96	24.54	341	0.11
48	15.06	33.28	5.96	50	15.00	33.28	5.96	24.67	330	0.17
60	14.82	33.28	5.95	75	14.60	33.28	5.96	24.75	322	0.25
73	14.61	33.28	5.96	100	14.39	33.36	6.05	24.86	313	0.33
92	14.49	33.37	6.08	150	12.29	33.31	5.75	25.24	277	0.48
111	14.14	33.31	5.96	200	9.65	33.61	4.38	25.95	211	0.60
132	12.98	33.23	5.91	250	8.53	33.93	3.69	26.38	171	0.69
172	11.02	33.46	5.20	300	7.70	34.01	3.00	26.56	153	0.77
216	9.30	33.71	4.09	400	6.52	34.07	1.67	26.77	134	0.90
253	8.48	33.94	3.66	500	5.78	34.19	0.81	26.96	116	1.01
339	7.18	34.04	2.43							
430	6.26	34.10	1.38							
528	5.60	34.24	0.64							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

S10
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HORIZON; May 9, 1953; 0025 GCT; 29°04'N, 126°41'W; sounding, 2200 fm; wind, 020°, force 4; weather, partly cloudy; sea, rough; wire angle, 33°.

90.160

0	17.18	33.81	5.72	0	17.18	33.81	5.72	24.58	337	0.00
9	17.18	33.76	5.69	10	17.18	33.76	5.69	24.54	341	0.03
21	17.15	33.79	5.67	20	17.17	33.79	5.67	24.57	339	0.07
46	16.46	33.81	5.61	30	16.92	33.80	5.65	24.63	333	0.10
66	16.17	33.82	5.74	50	16.35	33.81	5.65	24.77	320	0.17
91	16.18	33.91	5.67	75	16.13	33.84	5.73	24.85	314	0.24
132	16.43	34.16	5.62	100	16.26	33.96	5.66	24.91	308	0.32
174	13.36	33.80	5.29	150	15.92	34.13	5.49	25.12	290	0.47
218	10.63	33.68	4.90	200	11.90	33.71	5.06	25.63	242	0.60
254	9.22	33.84	4.46	250	9.31	33.83	4.50	26.17	191	0.71
337	8.00	33.98	4.15	300	8.49	33.93	4.31	26.38	171	0.79
419	6.50	34.01	2.38	400	6.80	34.00	2.77	26.68	143	0.94
503	5.66	34.08	1.03	500	5.68	34.07	1.07	26.88	125	1.06
671	4.82	34.26	0.44	600	5.12	34.19	0.58	27.04	110	1.16
848	4.24	34.41	0.45	700	4.73	34.29	0.44	27.17	98	1.24
1031	3.74	34.46	0.71	800	4.40	34.37	0.43	27.26	90	1.31
				1000	3.81	34.46	0.64	27.40	78	1.41

YELLOWFIN; May 7, 1953; 0059 GCT; 32°56'N, 117°19'W; sounding, 103 fm; wind, calm; weather, partly cloudy; sea, slight; wire angle, 00°.

93.27

0	16.85	33.48	6.45	0	16.85	33.48	6.45	24.40	354	0.00
10	14.43	33.51	6.87	10	14.43	33.51	6.87	24.97	300	0.03
25	10.82	-	4.08	20	11.55	33.58	5.90	25.59	241	0.06
50	9.92	33.78	2.93	30	10.50	33.65	3.74	25.83	218	0.08
75	9.65	33.95	2.21	50	9.92	33.78	2.93	26.03	200	0.12
100	9.58	34.04	1.95	75	9.65	33.95	2.21	26.21	183	0.17
125	9.54	34.11	1.91	100	9.58	34.04	1.95	26.29	176	0.22
155	9.46	34.20	1.53	150	9.48	34.19	1.62	26.43	164	0.30

YELLOWFIN; May 7, 1953; 0520 GCT; 32°50'N, 117°31'W; sounding, 400 fm; wind, calm; weather, missing; sea, slight; wire angle, 00°.

93.30

0	17.32	33.40	5.58	0	17.32	33.40	5.58	24.23	370	0.00
10	15.81	33.43	5.79	10	15.81	33.43	5.79	24.60	335	0.04
20	15.38	33.39	5.89	20	15.38	33.39	5.89	24.67	329	0.07
35	12.23	33.46	5.46	30	13.62	33.45	5.73	25.09	290	0.10
50	10.56	33.40	4.31	50	10.56	33.40	4.31	25.63	238	0.15
65	9.98	-	3.50	75	9.82	33.81	3.10	26.07	195	0.21
80	9.77	33.84	3.00	100	9.38	33.91	2.75	26.22	182	0.25
100	9.38	33.91	2.75	150	9.10	34.11	2.18	26.43	164	0.34
124	8.85	33.96	2.78	200	8.75	34.29	1.76	26.63	146	0.42
154	9.12	34.14	2.12	250	8.23	34.25	1.36	26.67	142	0.49
203	8.72	34.29	1.74	300	7.89	34.31	1.08	26.77	134	0.55
251	8.22	34.25	1.36	400	7.03	34.40	0.51	26.96	116	0.67
300	7.89	34.31	1.08	500	6.34	34.41	0.35	27.06	108	0.76
402	7.02	34.40	0.51	600	5.78	34.42	0.21	27.14	101	0.85
501	6.34	34.41	0.35							
604	5.74	34.42	0.21							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

93.40

YELLOWFIN; May 7, 1953; 1201 GCT; 32°30'N, 118°12.5'W; sounding, 820 fm; wind, 270°, force 4; weather, partly cloudy; sea, rough; wire angle, 20°.

0	15.67	33.39	6.39	0	15.67	33.39	6.39	24.60	335	0.00
9	15.63	33.45	6.10	10	15.62	33.45	6.10	24.66	330	0.03
19	15.11	33.43	6.12	20	15.00	33.43	6.12	24.78	318	0.06
33	13.16	33.44	5.86	30	13.64	33.43	5.97	25.07	291	0.10
52	11.15	33.46	5.15	50	11.45	33.46	5.29	25.52	249	0.15
66	9.63	33.58	3.65	75	9.46	33.63	3.65	25.99	204	0.21
80	9.44	33.66	3.65	100	9.38	33.83	3.22	26.16	188	0.25
104	9.36	33.86	3.08	150	8.98	34.08	2.28	26.42	164	0.34
127p	9.15	33.99	2.55	200	8.57	34.19	1.85	26.57	152	0.42
170p	8.84	34.14	2.10	250	8.05	34.23	1.50	26.68	141	0.49
229p	8.26	34.22	1.65	300	7.56	34.27	1.10	26.79	132	0.55
330p	7.31	34.29	0.95	400	6.80	34.34	0.75	26.95	118	0.66
449p	6.48	34.38	0.62	500	6.19	34.41	0.50	27.08	106	0.76
569p	5.80	34.44	0.32							

93.50

YELLOWFIN; May 7, 1953; 1840, 1907 GCT; 32°10'N, 118°53'W; sounding, 900 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 22°, 28°.

0	14.03	33.36	6.25	0	14.03	33.36	6.25	24.93	303	0.00
9	13.86	33.33	6.23	10	13.84	33.33	6.23	24.95	302	0.03
23	12.81	33.34	6.41	20	13.17	33.34	6.40	25.09	289	0.06
37	11.34	33.33	5.27	30	11.60	33.33	5.70	25.39	261	0.09
56	11.04	33.50	5.09	50	11.14	33.45	5.18	25.56	245	0.14
69	10.02	33.55	4.05	75	9.82	33.57	3.85	25.89	214	0.19
87	9.55	33.61	3.54	100	9.15	33.71	3.25	26.11	194	0.24
109	8.96	33.85	3.07	150	8.65	34.00	2.40	26.41	165	0.33
136	8.77	33.98	2.60	200	8.23	34.13	2.04	26.58	151	0.41
				250	7.93	34.26	1.32	26.72	137	0.48
149	8.66	34.00	2.41	300	7.52	34.24	1.06	26.77	134	0.54
200	8.23	34.13	2.04	400	6.82	34.31	0.66	26.92	120	0.66
250	7.93	34.26	1.32	500	6.18	34.34	0.42	27.03	101	0.76
302	7.49	34.24	1.06	600	5.62	34.42	0.33	27.16	99	0.85
403	6.80	34.31	0.66							
512	6.10	34.34	0.40							
622	5.52	34.45	0.32							

97.30

YELLOWFIN; May 11, 1953; 0542 GCT; 32°15.5'N, 117°08'W; sounding, 33 fm; wind, 270°, force 2; weather, clear; sea, moderate; wire angle, 02°.

0	15.74	33.48	6.17	0	15.74	33.48	6.17	24.66	330	0.00
10	15.22	33.48	6.49	10	15.22	33.48	6.49	24.77	319	0.03
20	11.59	33.45	5.09	20	11.59	33.45	5.09	24.48	252	0.06
30	10.44	33.60	3.58	30	10.44	33.60	3.58	24.81	221	0.08
50	9.78	33.81	2.73	50	9.78	33.81	2.73	25.08	195	0.13

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{cm}^3/\text{g}$	dyn. m

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5305

YELLOWFIN; May 11, 1953; 0231 GCT; 32°05'N, 117°29'W; sounding, 580 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 22°.

97.35

0	15.43	33.40	5.89	0	15.43	33.40	5.89	24.67	329	0.00
9	15.23	33.45	5.95	10	15.22	33.45	5.97	24.75	321	0.03
23	12.92	33.45	6.38	20	13.80	33.45	6.35	25.05	293	0.06
37	11.62	33.49	5.66	30	12.10	33.46	6.20	25.40	260	0.09
56	10.66	-	4.64	50	10.95	33.52	5.00	25.65	236	0.14
69	9.85	33.56	3.94	75	9.66	33.57	3.80	25.91	212	0.20
87	9.49	33.61	3.56	100	9.38	33.79	3.17	26.13	191	0.24
108	9.32	33.86	3.01	150	8.70	34.01	2.95	26.41	165	0.33
135	8.95	33.94	2.81	200	8.09	34.15	2.59	26.61	147	0.41
161	8.52	34.08	3.05	250	7.83	34.32	1.70	26.79	131	0.47
214	7.99	34.18	2.36	300	7.67	34.32	1.20	26.81	130	0.54
267	7.78	34.34	1.50	400	7.20	34.36	0.54	26.91	122	0.65
320	7.61	34.31	1.04	500	6.26	34.37	0.34	27.04	110	0.75
425	7.04	34.37	0.44	600	5.56	34.43	0.22	27.18	98	0.84
534	5.96	34.38	0.31							
647	5.34	34.48	0.16							

YELLOWFIN; May 10, 1953; 2028 GCT; 31°55.5'N, 117°50.5'W; sounding, 210 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 17°.

9740

0	14.37	33.47	6.14	0	14.37	33.47	6.14	24.95	302	0.00
10	14.30	33.46	5.99	10	14.30	33.46	5.99	24.96	302	0.03
24	13.74	33.46	6.22	20	14.03	33.46	6.20	25.01	296	0.06
48	11.29	33.49	5.43	30	13.10	33.47	6.20	25.21	278	0.09
72	9.90	33.44	4.41	50	11.10	33.49	5.33	25.60	241	0.14
97	9.53	33.62	3.65	75	9.83	33.44	4.30	25.78	224	0.20
148	8.68	33.91	3.05	100	9.48	33.66	3.59	26.01	203	0.25
195	8.06	34.16	2.11	150	8.62	33.93	3.00	26.36	170	0.34
243	7.90	34.22	1.38	200	8.03	34.17	2.02	26.64	144	0.42
288	7.60	34.27	0.97	250	7.87	34.23	1.32	26.71	138	0.48

YELLOWFIN; May 10, 1953; 1255 GCT; 31°35.5'N, 118°30'W; sounding, 1000+ fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 27°.

9750

0	14.21	33.41	5.77	0	14.21	33.41	5.77	24.94	303	0.00
9	14.20	33.36	5.87	10	14.20	33.36	5.87	24.90	307	0.03
22	14.23	33.40	5.88	20	14.23	33.39	5.88	24.91	306	0.06
36	14.07	33.44	5.93	30	14.20	33.43	5.92	24.95	302	0.09
54	11.56	33.33	5.28	50	12.03	33.33	5.46	25.31	269	0.15
67	10.80	33.41	4.77	75	10.50	33.52	3.92	25.73	229	0.21
85	10.16	33.61	3.65	100	9.59	33.72	3.42	26.04	200	0.26
105	9.52	33.76	3.34	150	9.43	34.09	2.26	26.36	171	0.35
129	9.54	33.94	2.68	200	9.04	34.25	1.77	26.55	154	0.43
152	9.40	34.10	2.22	250	8.57	34.33	1.45	26.68	142	0.50
202	9.01	34.26	1.75	300	8.13	34.34	1.13	26.76	135	0.57
251	8.56	34.33	1.44	400	7.13	34.34	0.66	26.90	122	0.69
302	8.11	34.34	1.11							
405	7.06	34.34	0.63							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

97.60

YELLOWFIN; May 10, 1953; 0342, 0410, 0431 GCT; 31°15.5'N, 119°10.5'W; sounding, 1000+ fm; wind, 310°, force 7; weather, clear; sea, high; wire angle, 35°, 35°, 39°.

0	14.85	33.35	5.83	0	14.85	33.35	5.83	24.75	321	0.00
8	14.86	33.43	5.88	10	14.86	33.43	5.90	24.81	315	0.03
20	14.88	33.35	6.00	20	14.88	33.35	6.00	24.75	322	0.06
33	14.87	33.37	5.94	30	14.86	33.37	5.96	24.77	320	0.10
				50	14.86	33.41	5.93	24.80	318	0.16
50	14.86	-	5.93	75	11.21	33.32	4.94	25.45	256	0.23
61	14.54	33.42	5.92	100	9.99	33.45	3.90	25.77	226	0.29
76	11.20	33.32	4.92	150	9.28	34.01	2.72	26.32	174	0.39
95	10.16	-	4.07	200	8.75	34.16	2.17	26.52	156	0.47
117	9.59	33.70	3.43							
140	9.36	33.96	2.86							
191	8.83	34.14	2.27							
233	8.40	34.24	1.80							

100.29

YELLOWFIN; May 11, 1953; 1046 GCT; 31°42'N, 116°43.5'W; sounding, 50 fm; wind, calm; weather, clear; sea, moderate; wire angle, 00°.

0	11.46	33.54	5.44	0	11.46	33.54	5.44	25.58	242	0.00
10	10.18	33.52	4.07	10	10.18	33.52	4.07	25.79	222	0.02
20	10.12	33.52	3.89	20	10.12	33.52	3.89	25.80	222	0.04
30	9.79	33.63	3.66	30	9.79	33.63	3.66	25.94	208	0.07
50	9.49	33.75	3.25	50	9.49	33.75	3.25	26.08	195	0.11

100.30

YELLOWFIN; May 11, 1953; 1226 GCT; 31°40.5'N, 116°46.5'W; sounding, 200 fm; wind, calm; weather, clear; sea, moderate; wire angle, 00°.

0	12.90	33.45	5.86	0	12.90	33.45	5.86	25.23	275	0.00
10	9.98	33.50	4.10	10	9.98	33.50	4.10	25.81	220	0.02
25	9.58	33.56	3.92	20	9.68	33.54	3.97	25.89	213	0.05
50	9.34	33.73	3.57	30	9.48	33.59	3.86	25.96	206	0.07
75	9.65	33.94	2.77	50	9.34	33.73	3.57	26.09	194	0.11
100	9.58	33.98	2.52	75	9.65	33.94	2.77	26.20	184	0.15
155	9.57	34.36	1.09	100	9.58	33.98	2.52	26.25	180	0.20
205	9.28	34.42	0.79	150	9.57	34.35	1.14	26.54	228	0.28
255	9.00	34.54u	0.67	200	9.31	34.41	0.82	26.63	220	0.36
305	8.62	34.45	0.59	250	9.03	34.44	0.66	26.69	208	0.43
				300	8.67	34.45	0.59	26.76	208	0.50

100.40

YELLOWFIN; May 11, 1953; 1851 GCT; 31°21.5'N, 117°27'W; sounding, 1000 fm; wind, 270°, force 3; weather, partly cloudy; sea, rough; wire angle, 21°.

0	15.39	33.33	5.84	0	15.39	33.33	5.84	24.62	335	0.00
9	15.21	33.32	6.00	10	15.21	33.32	6.00	24.65	330	0.03
23	15.21	33.32	5.95	20	15.20	33.32	5.96	24.65	330	0.07
51	12.68	33.27	5.85	30	15.16	33.32	5.93	24.66	330	0.10
70	11.26	33.18	5.17	50	12.72	33.28	5.85	25.14	285	0.16
98	9.84	33.50	3.98	75	10.95	33.18	4.88	25.39	262	0.23
148	8.84	33.82	3.18	100	9.77	33.52	3.89	25.86	218	0.29
196	8.24	34.05	2.88	150	8.81	33.84	3.16	26.26	180	0.38
250	7.57	34.06	2.45	200	8.18	34.05	2.84	26.52	156	0.47
293	7.44	34.21	1.42	250	7.57	34.06	2.45	26.62	147	0.54
395	6.72	34.23	0.70	300	7.39	34.22	1.34	26.77	133	0.60
492	6.20	34.39	0.37	400	6.68	34.23	0.67	26.88	124	0.72
589	5.69	34.39	0.29	500	6.16	34.39	0.35	27.07	107	0.82
785	4.65	34.45	0.36	600	5.63	34.39	0.29	27.14	102	0.91
988	3.96	34.50	0.57	700	5.06	34.42	0.32	27.23	93	0.99
1186	3.49	34.50	0.78	800	4.58	34.46	0.37	27.32	85	1.05
				1000	3.92	34.50	0.56	27.42	76	1.15

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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YELLOWFIN; May 12, 1953; 0157 GCT; 31°01'N, 118°07'W; sounding, 850 fm; wind, 270°, force 4; weather, partly cloudy; sea, rough; wire angle, 19°.

100.50

0	15.55	33.34	5.71	0	15.55	33.34	5.71	24.59	336	0.00
9	15.55	33.40	5.73	10	15.54	33.41	5.73	24.65	331	0.03
19	15.50	33.42	5.71	20	15.50	33.42	5.72	24.67	329	0.07
33	15.42	33.40	5.75	30	15.44	33.40	5.75	24.66	330	0.10
52	12.44	33.38	5.51	50	12.72	33.38	5.57	25.21	275	0.16
66	11.40	33.40	4.56	75	10.75	33.41	4.13	25.60	241	0.22
80	10.40	33.41	4.02	100	9.39	33.62	3.65	26.00	204	0.28
103	9.32	33.65	3.61	150	8.67	34.02	2.86	26.42	165	0.37
126	9.09	33.85	3.28	200	8.17	34.12	2.40	26.58	148	0.45
153	8.60	34.03	2.82	250	7.72	34.11	2.10	26.64	145	0.52
204	8.14	34.12	2.37	300	7.44	34.26	1.18	26.80	131	0.58
260	7.65	34.11	2.02	400	6.57	34.24	0.66	26.90	122	0.70
307	7.41	34.27	1.12	500	6.23	34.39	0.39	27.06	108	0.80
415	6.50	34.24	0.60	600	5.53	34.49	0.31	27.23	92	0.88
521	6.12	34.42	0.37							
628	5.31	34.50	0.30							

YELLOWFIN; May 12, 1953; 0812, 0847 GCT; 30°41'N, 118°47'W; sounding, 1000+ fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 25°, 42°.

100.60

0	15.20	33.44	5.74	0	15.20	33.44	5.74	24.75	321	0.00
9	15.09	33.47	5.79	10	15.10	33.47	5.79	24.79	317	0.03
27	15.22	33.45	5.76	20	15.20	33.46	5.77	24.76	320	0.06
54	12.38	33.30	5.83	30	15.23	33.44	5.76	24.74	323	0.10
80	10.40	33.40	4.32	50	14.60	33.30	5.83	24.77	320	0.16
106	9.97	33.63	3.43	75	10.50	33.36	4.63	25.61	241	0.23
154	9.20	33.96	2.58	100	10.04	33.58	3.57	25.86	218	0.29
202	8.64	34.14	2.07	150	9.26	33.94	2.66	26.27	179	0.38
251	8.00	34.17	1.80	200	8.66	34.14	2.09	26.52	156	0.46
301	7.64	34.29	1.33	250	8.02	34.17	1.80	26.64	145	0.54
				300	7.64	34.29	1.34	26.79	132	0.60
359	6.96	34.09	0.97	400	6.47	34.15	0.76	26.84	127	0.72
456	5.98	34.33	0.55	500	5.73	34.41	0.47	27.14	100	0.82
553	5.54	34.45	0.39	600	5.23	34.45	0.36	27.23	92	0.90
754	4.67	34.44	0.36	700	4.86	34.44	0.36	27.27	89	0.97
964	4.03	34.52	0.59	800	4.53	34.45	0.38	27.31	85	1.03
1166	3.50	34.54	0.81	1000	3.94	34.53	0.63	27.44	74	1.12

YELLOWFIN; May 12, 1953; 1459 GCT; 30°20'N, 119°27'W; sounding, 1000+ fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 21°.

100.70

0	14.41	33.19	5.87	0	14.41	33.19	5.87	24.72	323	0.00
9	14.42	33.23	5.85	10	14.42	33.24	5.84	24.76	320	0.03
19	14.42	33.25	5.86	20	14.41	33.24	5.85	24.76	320	0.06
33	14.38	33.25	5.91	30	14.39	33.25	5.90	24.77	319	0.10
51	14.30	33.23	5.90	50	14.33	33.23	5.90	24.77	320	0.16
65	14.00	33.18	5.92	75	13.25	33.12	5.88	24.91	307	0.24
79	12.84	33.12	5.87	100	11.32	33.18	5.43	25.32	268	0.31
102	11.24	33.19	5.38	150	9.54	33.57	4.36	25.93	211	0.43
124	10.69	33.33	5.01	200	8.46	33.92	3.72	26.38	169	0.52
151	9.50	33.58	4.33	250	7.92	34.09	2.32	26.59	150	0.60
200	8.46	33.92	3.72	300	7.46	34.12	1.80	26.68	142	0.66
254	7.86	34.09	2.25	400	6.73	34.24	0.76	26.88	124	0.79
299	7.46	34.12	1.82	500	5.95	34.36	0.52	27.07	106	0.89
403	6.70	34.24	0.75	600	5.42	34.39	0.35	27.16	99	0.97
505	5.90	34.36	0.51							
609	5.38	34.39	0.33							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \frac{3}{\text{cm}^3/\text{g}}$	dyn. m

100.80

YELLOWFIN; May 12, 1953; 2039 GCT; 30°01'N, 120°07'W; sounding, 1000+ fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 18°.

0	16.12	33.57	5.66	0	16.12	33.57	5.66	24.64	332	0.00
9	16.02	33.52	5.71	10	16.03	33.52	5.72	24.62	334	0.03
23	15.97	33.58	5.71	20	15.97	33.58	5.72	24.68	328	0.07
52	15.94	33.53	5.66	30	15.96	33.58	5.70	24.69	328	0.10
75	15.16	33.49	5.81	50	15.95	33.54	5.66	24.66	331	0.16
102	14.18	33.40	5.85	75	15.16	33.49	5.81	24.79	319	0.24
151	11.52	33.48	5.20	100	14.31	33.40	5.85	24.91	308	0.32
199	9.24	33.82	3.86	150	11.62	33.48	5.23	25.50	253	0.46
250	8.44	34.11	3.27	200	9.23	33.82	3.83	26.18	188	0.57
294	7.62	34.14	2.38	250	8.44	34.11	3.27	26.53	156	0.65
393	6.70	34.15	1.42	300	7.55	34.14	2.30	26.69	142	0.72
489	6.12	34.34	0.68	400	6.65	34.16	1.35	26.83	129	0.85
585	5.54	34.40	0.37	500	6.05	34.35	0.62	27.05	108	0.95
774	4.78	34.52	0.35	600	5.46	34.41	0.36	27.18	98	1.04
973	4.20	34.64	0.52	700	5.02	34.47	0.35	27.27	89	1.11
1166	3.62	34.63	0.78	800	4.69	34.54	0.36	27.37	81	1.17
				1000	4.13	34.64	0.57	27.51	68	1.26

100.90

YELLOWFIN; May 13, 1953; 0219 GCT; 29°40'N, 120°47'W; sounding, 1000+ fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 14°.

0	16.68	33.71	5.57	0	16.68	33.71	5.57	24.62	333	0.00
10	16.66	33.76	5.59	10	16.66	33.76	5.59	24.66	329	0.03
20	16.67	33.73	5.61	20	16.67	33.73	5.61	24.64	332	0.07
34	16.56	33.67	5.63	30	16.62	33.69	5.63	24.62	334	0.10
53	14.79	33.45	5.84	50	14.87	33.46	5.83	24.83	314	0.16
68	14.53	33.43	5.85	75	14.35	33.39	5.87	24.89	309	0.24
82	14.12	33.35	5.88	100	12.98	33.37	5.43	25.16	285	0.32
105	12.64	-	5.28	150	9.68	33.61	4.28	25.94	210	0.44
129	11.22	33.52	4.77	200	8.85	33.94	3.54	26.33	174	0.53
157	9.48	33.63	4.14	250	8.44	34.04	2.67	26.47	161	0.61
209	8.78	33.97	3.41	300	8.03	34.18	2.00	26.65	146	0.68
266	8.32	34.06	2.42	400	7.03	34.30	0.98	26.88	124	0.81
314	7.89	34.22	1.82	500	5.97	34.35	0.52	27.06	107	0.91
423	6.77	-	0.83	600	5.47	34.43	0.34	27.19	96	0.99
529	5.79	34.37	0.44							
636	5.36	34.47	0.29							

103.30

YELLOWFIN; May 14, 1953; 1845 GCT; 31°05'N, 116°25'W; sounding, 45 fm; wind, 310°, force 2; weather, partly cloudy; sea, slight; wire angle, 03°.

0	14.60	33.46	6.29	0	14.60	33.46	6.29	24.89	307	0.00
10	13.92	33.42	6.27	10	13.92	33.42	6.27	25.00	297	0.03
20	12.20	33.30	5.60	20	12.20	33.30	5.60	25.25	273	0.06
30	11.12	33.31	5.07	30	11.12	33.31	5.07	25.46	254	0.08
50	10.06	33.45	4.01	50	10.06	33.45	4.01	25.75	226	0.13
75	9.22	33.76	3.24	75	9.22	33.76	3.24	26.13	191	0.18

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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YELLOWFIN; May 14, 1953; 1515 GCT; 30°55'N, 116°45'W; sounding, 1000+ fm; wind, 270°, force 3; weather, overcast; sea, slight; wire angle, 04°.

103.35

0	14.97	33.58	6.20	0	14.97	33.58	6.20	24.90	306	0.00
10	14.98	33.50	6.18	10	14.98	33.50	6.18	24.84	312	0.03
20	13.67	33.50	6.47	20	13.67	33.50	6.47	25.12	286	0.06
35	11.24	33.64	4.29	30	11.96	33.56	5.10	25.50	240	0.09
50	10.38	33.78	3.49	50	10.38	33.78	3.49	25.96	207	0.13
65	9.77	33.83	2.97	75	9.70	33.89	2.67	26.16	188	0.18
80	9.64	33.92	2.65	100	9.22	34.02	2.64	26.34	172	0.23
100	9.22	34.02	2.64	150	8.37	34.07	2.78	26.51	156	0.31
124	8.52	34.00	2.89	200	7.80	34.05	2.23	26.58	150	0.38
154	8.33	34.07	2.75	250	7.34	34.24	1.71	26.79	130	0.45
203	7.76	34.05	2.18	300	7.06	34.21	1.31	26.81	129	0.51
252	7.32	34.24	1.68	400	6.56	34.35	0.72	26.99	114	0.62
301	7.06	34.21	1.29	500	6.18	34.37	0.36	27.05	109	0.72
404	6.54	34.35	0.69	600	5.63	34.34	0.35	27.10	104	0.80
502	6.18	34.37	0.37							
606	5.60	34.34	0.34							

YELLOWFIN; May 14, 1953; 1159 GCT; 30°45.5'N, 117°02'W; sounding, 1280 fm; wind, 270°, force 2; weather, missing; sea, slight; wire angle, 12°.

103.40

0	15.92	33.46	5.77	0	15.92	33.46	5.77	24.60	325	0.00
10	15.92	33.50	5.83	10	15.92	33.50	5.83	24.63	332	0.03
25	15.03	33.48	5.96	20	15.56	33.49	5.94	24.71	325	0.07
49	10.82	33.29	4.68	30	13.95	33.46	5.94	25.00	298	0.10
73	9.96	33.46	4.17	50	10.75	33.29	4.66	25.57	250	0.15
98	9.48	33.62	3.70	75	9.90	33.48	4.13	25.80	222	0.21
151	8.59	34.08	2.90	100	9.43	33.63	3.67	26.00	204	0.26
199	8.15	34.11	2.48	150	8.61	34.07	2.92	26.47	160	0.35
245	7.53	34.21	2.24	200	8.13	34.11	2.46	26.58	150	0.43
292	7.32	34.22	1.40	250	7.50	34.21	2.19	26.75	134	0.50
344	7.32	34.38	0.87	300	7.32	34.23	1.27	26.79	132	0.56
392	6.77	34.41	0.69	400	6.73	34.41	0.67	27.01	112	0.67
440	6.59	34.37	0.54	500	(5.94)	(34.52)	(0.32)	(27.20)	(95)	(0.76)
488	6.05	34.48	0.37							

YELLOWFIN; May 14, 1953; 0545 GCT; 30°25'N, 117°45.5'W; sounding, 470 fm; wind, 310°, force 4; weather, overcast; sea, rough; wire angle, 20°.

103.50

0	15.36	33.40	5.76	0	15.36	33.40	5.76	24.68	327	0.00
10	15.38	33.39	5.85	10	15.38	33.39	5.85	24.67	329	0.03
19	15.38	33.46	5.68	20	15.37	33.46	5.67	24.73	324	0.06
33	14.88	33.34	6.29	30	15.12	33.37	6.24	24.71	325	0.10
52	13.37	33.24	5.87	50	13.60	33.25	5.88	24.94	304	0.16
64	12.24	33.19	5.87	75	11.42	33.23	5.53	25.34	266	0.23
78	11.28	33.25	5.44	100	10.23	33.30	5.16	25.61	241	0.29
99	10.28	33.30	5.19	150	9.28	33.97	2.91	26.29	177	0.40
121	9.56	33.70	3.66	200	8.26	34.14	2.57	26.58	150	0.48
146	9.34	33.94	2.96	250	7.93	34.25	1.64	26.72	138	0.54
195	8.32	34.12	2.65	300	7.69	34.23	1.41	26.74	137	0.61
248	7.93	34.25	1.66	400	6.46	34.32	0.73	26.98	115	0.72
295	7.72	34.23	1.43	500	5.93	34.41	0.45	27.12	102	0.82
399	6.48	34.32	0.73	600	5.41	34.56	0.34	27.30	87	0.90
501	5.92	34.41	0.44							
608	5.38	34.57	0.34							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

103.60 YELLOWFIN; May 14, 1953; 0030 GCT; 30°06.5'N, 118°25.5'W; sounding, 1000+ fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 22°.

0	14.95	33.29	5.78	0	14.95	33.29	5.78	24.69	327	0.00
9	14.94	33.33	5.79	10	14.94	33.33	5.79	24.72	324	0.03
19	14.83	33.28	5.80	20	14.83	33.28	5.80	24.70	326	0.06
33	14.66	33.36	5.84	30	14.70	33.36	5.83	24.79	317	0.10
51	13.58	33.23	5.97	50	13.60	33.23	5.96	24.92	306	0.16
64	13.20	33.23	5.94	75	12.62	33.33	5.70	25.20	280	0.23
78	12.50	33.33	5.60	100	11.36	33.34	5.14	25.44	257	0.30
100	11.36	33.34	5.14	150	9.20	33.66	4.08	26.06	199	0.41
122	9.82	-	4.62	200	8.24	33.98	3.23	26.46	162	0.50
148	9.26	33.64	4.13	250	7.60	34.08	2.13	26.63	146	0.57
197	8.29	33.97	3.30	300	7.16	34.15	1.45	26.75	135	0.64
250	7.60	-	2.13	400	6.47	34.31	0.77	26.97	115	0.75
294	7.22	34.14	1.51	500	5.83	34.38	0.43	27.11	103	0.85
397	6.50	34.31	0.79	600	5.34	34.45	0.32	27.22	93	0.93
497	5.85	34.38	0.43							
600	5.34	34.45	0.32							

103.70 YELLOWFIN; May 13, 1953; 1908 GCT; 29°46'N, 119°05.5'W; sounding, 1000+ fm; wind, 310°, force 4; weather, cloudy; sea, moderate; wire angle, 10°.

0	15.33	33.30	5.69	0	15.33	33.30	5.69	24.61	334	0.00
10	15.31	33.24	5.77	10	15.31	33.24	5.77	24.57	339	0.03
20	15.30	33.23	5.70	20	15.30	33.23	5.70	24.56	339	0.07
35	15.27	33.26	5.79	30	15.30	33.24	5.73	24.55	340	0.10
54	15.11	33.32	5.80	50	15.18	33.32	5.80	24.66	331	0.17
69	14.30	33.25	5.85	75	13.88	33.14	5.86	24.80	318	0.25
83	13.54	33.12	5.87	100	13.06	33.32	5.69	25.10	290	0.32
108	12.81	33.38	5.57	150	10.09	33.40	4.82	25.71	232	0.45
133	11.27	33.36	5.24	200	8.97	33.74	3.84	26.16	189	0.56
161	9.74	33.46	4.58	250	8.47	34.14	2.56	26.55	154	0.64
213	8.80	33.84	3.53	300	7.77	34.22	1.98	26.72	139	0.71
268	8.32	34.19	2.30	400	6.87	34.34	0.94	26.94	119	0.83
315	7.59	34.23	1.83	500	6.04	34.33	0.47	27.04	110	0.93
424	6.66	34.35	0.78	600	5.48	34.39	0.38	27.16	99	1.01
529	5.86	34.33	0.43							
635	5.32	34.43	0.38							

103.80 YELLOWFIN; May 13, 1953; 1250 GCT; 29°26'N, 119°45.5'W; sounding, 1000+ fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 15°.

0	15.87	33.55	5.67	0	15.87	33.55	5.67	24.68	327	0.00
9	15.88	33.56	5.69	10	15.87	33.56	5.69	24.69	327	0.03
19	15.91	33.48	5.67	20	15.91	33.48	5.66	24.62	334	0.07
33	15.90	33.58	5.70	30	15.91	33.58	5.67	24.70	327	0.10
53	15.84	33.46	5.68	50	15.86	33.48	5.68	24.63	333	0.16
67	15.35	33.42	5.77	75	15.23	33.43	5.77	24.73	325	0.25
81	15.19	-	5.77	100	15.16	33.67	5.67	24.93	306	0.33
105	15.14	33.68	5.62	150	11.13	33.59	4.80	25.68	236	0.46
129	13.21	33.55	5.36	200	9.34	33.85	3.67	26.18	188	0.56
157	10.66	-	4.56	250	8.43	34.04	3.34	26.48	161	0.65
209	9.14	33.90	3.58	300	7.49	34.04	2.68	26.62	148	0.72
265	8.16	34.06	3.23	400	6.53	34.18	1.35	26.86	126	0.85
312	7.33	34.04	2.47	500	5.75	34.27	0.77	27.03	111	0.95
424	6.32	34.21	1.15	600	5.25	34.38	0.44	27.18	97	1.04
532	5.54	34.30	0.64							
638	5.12	34.44	0.32							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn.m

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YELLOWFIN; May 13, 1953; 0720 GCT; 29°06'N, 120°25.5'W; sounding, 1000+ fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 14°.

103.90

0	16.76	33.73	5.73	0	16.76	33.73	5.73	24.62	333	0.00
10	16.73	33.66	5.70	10	16.73	33.66	5.70	24.57	339	0.03
20	16.77	33.71	5.63	20	16.77	33.71	5.63	24.60	335	0.07
34	16.75	33.66	5.69	30	16.76	33.67	5.66	24.57	339	0.10
53	16.71	33.70	5.80	50	16.73	33.70	5.79	24.60	337	0.17
68	15.80	33.57	5.76	75	15.84	33.60	5.87	24.73	325	0.25
82	15.86	33.61	5.92	100	15.13	33.60	5.84	24.89	311	0.33
107	14.57	33.59	5.63	150	10.42	33.63	4.24	25.83	221	0.46
131	11.46	33.57	4.31	200	9.06	33.84	3.51	26.22	184	0.56
160	10.02	33.68	4.18	250	8.13	33.94	2.17	26.44	164	0.64
213	8.74	33.87	3.16	300	7.43	34.08	1.67	26.66	144	0.72
272	7.81	33.99	1.89	400	6.44	34.22	1.12	26.90	122	0.84
321	7.18	34.15	2.59r	500	5.83	34.36	0.67	27.09	105	0.94
430	6.23	34.23	0.96	600	5.31	34.43	0.40	27.21	94	1.02
535	5.63	34.44	0.55							
644	5.09	34.41	0.34							

YELLOWFIN; May 14, 1953; 2329 GCT; 30°25.5'N, 116°11'W; sounding, 215 fm; wind, 270°, force 2; weather, cloudy; sea, slight; wire angle, 10°.

107.32

0	13.69	33.49	7.75	0	13.69	33.49	7.75	25.11	287	0.00
10	11.81	33.54	6.01	10	11.81	33.54	6.01	25.51	248	0.03
25	10.12	33.60	4.33	20	10.55	33.58	4.78	25.77	224	0.05
49	9.60	33.86	2.96	30	9.92	33.63	3.86	25.92	210	0.07
74	9.88	34.14	2.43	50	9.61	33.92	2.93	26.19	184	0.11
98	9.69	34.11	2.15	75	9.87	34.14	2.43	26.32	173	0.16
152	9.61	34.24	2.00	100	9.68	34.11	2.14	26.33	172	0.20
200	9.95	34.46	1.18	150	9.61	34.23	2.01	26.44	163	0.28
249	9.52	-	0.83	200	9.95	34.46	1.18	26.56	153	0.36
297	9.16	34.52	0.72	250	9.53	34.50	0.83	26.66	144	0.43
				300	(9.14)	(34.52)	(0.74)	(26.74)	(137)	(0.49)

YELLOWFIN; May 15, 1953; 0135 GCT; 30°20'N, 116°23'W; sounding, 900 fm; wind, 270°, force 3; weather, overcast; sea, moderate; wire angle, 20°.

107.35

0	14.77	33.40	6.15	0	14.77	33.40	6.15	24.81	315	0.00
9	14.56	33.41	6.51	10	14.49	33.41	6.62	24.88	309	0.03
18	13.51	33.48	7.22	20	13.23	33.48	7.22	25.19	279	0.06
32	12.24	33.42	5.99	30	12.43	33.42	6.38	25.30	269	0.09
45	11.06	33.44	4.79	50	10.45	33.48	4.37	25.71	230	0.14
58	9.87	33.60	3.78	75	9.60	33.79	3.18	26.10	194	0.19
70	9.71	33.78	3.20	100	9.17	33.89	3.09	26.24	180	0.24
85	9.38	33.80	3.15	150	9.53	34.32	1.38	26.52	155	0.32
104	9.17	33.98	3.04	200	9.32	34.48	0.84	26.68	141	0.39
126	9.60	34.24	1.91	250	9.23	34.50	0.65	26.71	139	0.46
164	9.44	34.36	1.19	300	8.69	34.47	0.48	26.77	134	0.52
203	9.30	34.49	0.80	400	7.86	34.37	0.45	26.82	131	0.64
242	9.25	34.50	0.67	500	6.74	34.38	0.39	26.99	115	0.75
325	8.42	34.45	0.44							
411	7.76	34.36	0.44							
505	6.68	34.38	0.39							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

10740 YELLOWFIN; May 15, 1953; 0456 GCT; 30°10.5'N, 116°43'W; sounding, 1000+ fm; wind, 310°, force 4; weather, overcast; sea, rough; wire angle, 25°.

0	15.77	33.32	5.49	0	15.77	33.32	5.49	24.53	342	0.00
8	15.76	33.32	5.46	10	15.76	33.32	5.47	24.53	342	0.03
18	15.76	33.30	5.61	20	15.75	33.30	5.62	24.52	343	0.07
31	15.19	33.22	5.60	30	15.25	33.22	5.60	24.57	337	0.10
44	14.30	33.22	5.91	50	13.78	33.21	5.91	24.87	310	0.17
57	13.08	33.20	5.85	75	11.00	33.28	5.00	25.46	255	0.27
69	11.83	33.28	5.29	100	10.17	33.39	3.80	25.69	233	0.30
84	10.50	33.27	4.57	150	9.43	33.98	2.64	26.27	179	0.40
104	10.07	33.60	3.55	200	8.35	34.10	2.34	26.54	154	0.48
126	9.64	33.80	2.85	250	7.87	34.17	1.96	26.66	143	0.55
166	9.24	34.04	2.57	300	7.84	34.32	0.93	26.78	132	0.62
205	8.27	34.11	2.31	400	6.93	34.38	0.47	26.96	117	0.73
246	7.89	34.16	2.02	500	6.20	34.38	0.37	27.06	108	0.83
332	7.74	34.44	0.64							
420	6.76	34.37	0.44							
518	6.10	34.39	0.34							

10750 YELLOWFIN; May 15, 1953; 1123 GCT; 29°50.5'N, 117°23.5'W; sounding, 1000+ fm; wind, 310°, force 4; weather, missing; sea, rough; wire angle, 24°.

0	15.55	33.31	5.63	0	15.55	33.31	5.63	24.57	338	0.00
9	15.55	33.34	5.65	10	15.56	33.34	5.65	24.59	336	0.03
18	15.57	33.37	5.65	20	15.57	33.38	5.65	24.62	332	0.07
32	15.53	33.40	5.66	30	15.54	33.40	5.65	24.64	332	0.10
50	15.11	33.27	5.80	50	15.11	33.27	5.80	24.64	333	0.17
64	14.48	33.24	5.82	75	14.43	33.27	5.82	24.78	320	0.25
78	14.40	33.27	5.81	100	13.10	33.22	5.87	25.02	298	0.32
100	13.10	33.22	5.87	150	9.83	33.50	4.58	25.83	221	0.45
122	11.59	33.24	5.30	200	8.68	33.84	3.25	26.28	178	0.55
148	9.96	33.48	4.63	250	8.36	34.07	2.22	26.51	157	0.63
198	8.70	33.83	3.30	300	7.90	34.19	1.38	26.67	143	0.70
251	8.37	34.07	2.19	400	6.86	34.25	0.75	26.87	125	0.83
297	7.95	34.19	1.42	500	5.96	34.29	0.46	27.02	111	0.93
403	6.82	34.25	0.73	600	5.58	34.40	0.36	27.15	100	1.02
506	5.92	34.29	0.44							
613	5.56	34.42	0.34							

10760 YELLOWFIN; May 15, 1953; 1636 GCT; 29°31'N, 118°03.5'W; sounding, 1000+ fm; wind, 310°, force 5; weather, overcast; sea, rough; wire angle, 08°.

0	15.24	33.28	5.32	0	15.24	33.28	5.32	24.62	333	0.00
10	15.26	33.26	5.29	10	15.26	33.26	5.29	24.60	336	0.03
20	15.28	33.29	5.05	20	15.28	33.29	5.05	24.61	334	0.07
35	15.27	33.26	5.46	30	15.27	33.27	5.43	24.60	336	0.10
55	15.22	33.30	5.00	50	15.24	33.29	5.15	24.62	334	0.17
69	14.46	33.29	4.86	75	14.16	33.28	4.90	24.85	314	0.25
84	13.75	33.26	5.24	100	12.57	33.28	4.36	25.17	283	0.32
108	12.16	33.32	4.24	150	10.20	33.63	3.49	25.87	217	0.44
133	10.96	33.46	4.06	200	9.28	34.00	2.22	26.31	176	0.54
162	9.91	33.86	3.01	250	8.30	34.10	1.94	26.54	155	0.62
215	8.99	34.04	2.09	300	7.83	34.17	1.51	26.67	144	0.69
274	8.03	34.14	1.83	400	7.21	34.31	0.65	26.87	126	0.82
323	7.61	34.20	1.21	500	6.51	34.40	0.38	27.03	111	0.92
439	6.96	34.36	0.48	600	5.85	34.45	0.29	27.16	100	1.01
548	6.19	34.42	0.33							
653	5.51	34.49	0.25							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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YELLOWFIN; May 15, 1953; 2245 GCT; 29°11'N, 118°43'W; sounding, 1000+ fm; wind, 280°, force 5; weather, cloudy; sea, rough; wire angle, 24°.

107.70

0	15.50	33.40	5.63	0	15.50	33.40	5.63	24.65	330	0.00
9	15.48	33.40	5.65	10	15.48	33.40	5.65	24.65	330	0.03
18	15.45	33.31	5.72	20	15.44	33.31	5.72	24.59	336	0.07
32	15.43	33.43	5.66	30	15.43	33.43	5.67	24.69	327	0.10
50	15.18	33.40	5.73	50	15.18	33.40	5.73	24.72	325	0.16
63	14.46	33.36	5.81	75	13.90	33.40	5.69	24.99	300	0.24
76	13.91	33.40	5.69	100	12.80	33.52	5.24	25.31	269	0.31
99	12.84	33.52	5.28	150	9.95	33.54	4.40	25.84	220	0.43
121	11.43	33.58	4.89	200	9.03	33.94	3.68	26.30	177	0.53
147	10.02	33.54	4.46	250	8.34	34.07	3.05	26.51	157	0.61
196	9.11	33.92	3.72	300	8.11	34.24	1.88	26.68	143	0.68
249	8.34	34.07	3.07	400	6.97	34.30	0.93	26.89	123	0.80
294	8.16	34.23	1.95	500	6.39	34.35	0.44	27.01	113	0.91
398	6.98	34.30	0.94	600	5.79	34.43	0.30	27.15	101	1.00
500	6.39	34.35	0.44							
606	5.77	34.43	0.29							

YELLOWFIN; May 16, 1953; 0410 GCT; 28°51'N, 119°22.5'W; sounding, 1000+ fm; wind, 310°, force 5; weather, drizzle; sea, very rough; wire angle, 29°.

107.80

0	16.67	33.65	5.44	0	16.67	33.65	5.44	24.58	337	0.00
9	16.66	33.68	5.34	10	16.65	33.68	5.35	24.60	335	0.03
18	16.68	33.68	5.43	20	16.68	33.68	5.45	24.60	336	0.07
31	16.68	33.72	5.44	30	16.68	33.72	5.45	24.63	333	0.10
48	16.68	33.68	5.44	50	16.67	33.68	5.45	24.60	337	0.17
61	16.55	33.69	5.45	75	15.80	33.65	5.49	24.78	321	0.25
74	15.82	33.65	5.48	100	15.35	33.64	5.62	24.87	313	0.33
94	15.56	33.65	5.62	150	11.30	33.47	4.71	25.55	248	0.47
114	14.29	33.52	5.49	200	9.65	33.89	3.32	26.16	190	0.57
138	12.12	33.45	5.05	250	8.88	34.07	2.67	26.43	165	0.66
183	9.94	33.77	3.78	300	8.30	34.11	2.06	26.55	155	0.74
234	9.14	34.06	2.78	400	7.32	34.31	1.00	26.85	128	0.87
277	8.54	34.08	2.45	500	6.26	34.35	0.64	27.03	111	0.97
373	7.60	34.27	1.17							
470	6.60	34.35	0.72							
570	5.52	34.30	0.51							

YELLOWFIN; May 16, 1953; 0954 GCT; 28°32'N, 120°01'W; sounding, 1000+ fm; wind, 310°, force 5; weather, moderate drizzle; sea, rough; wire angle, 25°.

107.90

0	16.99	-	5.44	0	16.99	(33.90)	5.44	(24.69)	(326)	(0.00)
9	16.98	33.90	5.50	10	16.98	33.90	5.50	24.70	326	0.03
18	17.01	33.87	5.51	20	17.02	33.87	5.51	24.66	330	0.06
32	17.02	33.88	5.51	30	17.02	33.88	5.51	24.67	329	0.10
50	17.00	33.84	5.49	50	17.00	33.84	5.49	24.64	332	0.16
63	17.01	33.86	5.48	75	16.76	33.91	5.49	24.75	323	0.25
76	16.76	33.91	5.49	100	16.69	33.94	5.50	24.79	319	0.33
96	16.70	33.94	5.51	150	13.37	33.75	4.78	25.37	265	0.47
117	16.66	33.93	5.41	200	10.23	33.80	3.81	26.00	206	0.59
141	14.37	33.75	5.15	250	9.12	34.05	3.15	26.38	171	0.68
188	10.62	33.78	3.96	300	8.35	34.17	2.20	26.59	151	0.76
239	9.34	33.99	3.44	400	7.21	34.27	1.12	26.84	129	0.90
284	8.58	34.15	2.43	500	6.49	34.34	0.55	26.99	115	1.03
388	7.34	34.26	1.25	600	(6.09)	(34.36)	(0.43)	(27.06)	(110)	(1.14)
490	6.55	34.34	0.58							
597	6.11	34.36	0.43							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

110.33

YELLOWFIN; May 18, 1953; 0423 GCT; 29°50.5'N, 115°52.5'W; sounding, 45 fm; wind, 310°, force 6; weather, cloudy; sea, very rough; wire angle, 05°.

0	14.30	33.58	6.73	0	14.30	33.58	6.73	25.05	292	0.00
10	14.24	33.47	6.81	10	14.24	33.47	6.81	24.98	300	0.03
20	13.24	33.30	6.50	20	13.24	33.30	6.50	25.05	293	0.06
30	11.34	33.30	5.48	30	11.34	33.30	5.48	25.41	258	0.09
50	9.89	33.45	4.57	50	9.89	33.45	4.57	25.78	224	0.14

110.35

YELLOWFIN; May 18, 1953; 0225 GCT; 29°46'N, 116°00'W; sounding, 800 fm; wind, 310°, force 4; weather, partly cloudy; sea, rough; wire angle, 30°.

0	15.09	33.46	6.17	0	15.09	33.46	6.17	24.79	317	0.00
9	15.10	33.47	6.02	10	15.09	33.47	6.04	24.79	317	0.03
18	15.05	33.44	6.08	20	15.04	33.44	6.13	24.78	318	0.06
31	14.96	33.38	6.31	30	14.96	33.39	6.31	24.76	320	0.10
47	12.96	33.29	5.43	50	12.44	33.28	5.46	25.19	280	0.16
58	11.68	33.27	5.95	75	9.93	33.43	4.69	25.76	226	0.22
68	10.46	33.30	5.05	100	9.37	33.66	3.76	26.03	201	0.27
85	9.62	33.55	4.23	150	9.70	34.08	2.34	26.30	176	0.36
101	9.35	33.68	3.73	200	8.98	34.21	2.49	26.52	156	0.44
121	9.29	33.81	3.64	250	8.64	34.35	1.49	26.69	141	0.52
158	9.72	34.12	2.30	300	8.33	34.37	1.24	26.75	136	0.58
200	8.98	34.21	2.49	400	7.80	34.50	0.56	26.93	120	0.70
236	8.73	34.34	1.59	500	6.92	34.44	0.44	27.01	114	0.80
323	8.19	34.39	1.09							
415	7.70	34.51	0.51							
515	6.74	34.42	0.43							

110.40

YELLOWFIN; May 17, 1953; 2315 GCT; 29°36.5'N, 116°19.5'W; sounding, 1000+ fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 24°.

0	15.51	33.28	6.04	0	15.51	33.28	6.04	24.56	339	0.00
9	15.50	33.30	5.97	10	15.50	33.30	5.97	24.57	338	0.03
23	15.26	33.33	6.03	20	15.41	33.33	6.03	24.62	334	0.07
46	14.00	33.23	6.21	30	14.90	33.32	6.10	24.72	324	0.10
69	12.82	33.24	6.07	50	13.77	33.23	6.21	24.89	309	0.16
91	11.32	33.30	5.64	75	12.43	33.25	5.97	25.17	283	0.24
143	9.09	33.71	3.78	100	10.70	33.34	5.29	25.56	246	0.30
187	8.62	33.94	3.28	150	9.01	33.75	3.68	26.16	190	0.41
231	8.15	34.14	2.66	200	8.47	34.00	3.11	26.44	164	0.50
275	7.80	34.19	1.57	250	7.97	34.16	2.00	26.64	145	0.57
324	7.60	34.28	1.38	300	7.68	34.24	1.50	26.75	136	0.64
368	7.40	34.31	0.84	400	7.07	34.32	0.67	26.89	123	0.76
412	6.96	34.32	0.63	500	6.23	34.34	0.47	27.02	112	0.86
456	6.55	34.34	0.54							
552	5.92	34.34	0.41							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

S10
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YELLOWFIN; May 17, 1953; 1620, 1653, 1720 GCT; 29°16.5'N, 116°59'W; sounding, 1000+ fm; wind, 310°, force 5; weather, overcast; sea, rough; wire angle, 33°, 40°, 40°.

110.50

0	15.55	33.35	5.87	0	15.55	33.35	5.87	24.60	335	0.00
8	15.54	33.36	5.90	10	15.55	33.36	5.90	24.61	334	0.03
21	15.57	33.32	5.90	20	15.57	33.32	5.90	24.57	338	0.07
46	15.54	33.37	5.91	30	15.57	33.33	5.90	24.58	338	0.10
67	14.23	33.26	6.08	50	15.51	33.37	5.93	24.63	334	0.17
92	12.64	33.30	5.84	75	13.65	33.27	6.06	24.94	304	0.25
139	10.40	33.74	3.63	100	12.30	33.33	5.45	25.26	275	0.32
				150	9.66	33.76	3.70	26.06	199	0.44
157	9.44	33.77	3.80	200	8.75	34.14	2.57	26.51	157	0.52
				250	8.50	34.21	2.04	26.60	150	0.60
201	8.74	34.14	2.56	300	8.17	34.28	1.43	26.70	140	0.66
256	8.48	34.22	1.98	400	7.25	34.37	0.71	26.91	122	0.78
340	7.81	34.34	1.04	500	6.53	34.39	0.43	27.02	112	0.89
426	7.04	34.38	0.61	600	5.96	34.40	0.37	27.11	104	0.98
511	6.47	34.39	0.41	700	5.44	34.40	0.36	27.17	99	1.06
683	5.52	34.40	0.36	800	4.95	34.46	0.38	27.27	90	1.13
862	4.68	34.52	0.42	1000	4.20	34.57	0.53	27.45	74	1.23
1046	4.05	34.58	0.57							

YELLOWFIN; May 17, 1953; 0944 GCT; 28°56'N, 117°39'W; sounding, 1000+ fm; wind, 310°, force 5; weather, missing; sea, rough; wire angle, 18°.

110.60

0	16.32	33.52	5.55	0	16.32	33.52	5.55	24.56	339	0.00
9	16.32	33.56	5.58	10	16.33	33.56	5.58	24.59	337	0.03
19	16.34	33.58	5.58	20	16.34	33.58	5.58	24.60	336	0.07
33	16.33	33.58	5.59	30	16.34	33.58	5.59	24.60	336	0.10
52	16.18	33.49	5.65	50	16.23	33.52	5.64	24.58	339	0.17
65	14.68	33.42	5.70	75	13.40	33.28	5.64	25.00	299	0.25
79	12.90	33.28	5.57	100	11.59	33.46	4.53	25.49	252	0.32
102	11.52	33.49	4.47	150	10.51	33.90	2.90	26.03	202	0.43
125	10.82	33.62	3.59	200	9.96	34.21	2.05	26.36	171	0.52
153	10.46	33.93	2.82	250	9.30	34.29	1.68	26.53	156	0.60
203	9.92	34.22	2.01	300	8.90	34.41	1.10	26.69	142	0.67
259	9.22	34.30	1.59	400	7.54	34.36	0.74	26.86	127	0.79
306	8.84	34.42	1.05	500	6.55	34.41	0.38	27.04	111	0.90
414	7.36	34.35	0.68	600	5.83	34.43	0.31	27.15	101	0.99
519	6.40	34.42	0.35							
626	5.66	34.43	0.30							

YELLOWFIN; May 17, 1953; 0241 GCT; 28°36.5'N, 118°18'W; sounding, 1000+ fm; wind, 310°, force 5; weather, overcast; sea, rough; wire angle, 20°.

110.70

0	16.55	33.59	5.55	0	16.55	33.59	5.55	24.56	339	0.00
9	16.54	33.51	5.48	10	16.54	33.51	5.47	24.50	345	0.03
23	16.51	33.48	5.44	20	16.52	33.49	5.45	24.49	346	0.07
52	15.28	33.42	5.61	30	16.46	33.47	5.45	24.49	347	0.10
75	13.78	33.34	5.57	50	15.44	33.43	5.61	24.69	328	0.17
103	11.22	33.40	4.53	75	13.78	33.34	5.57	24.97	302	0.25
153	10.22	33.88	2.78	100	11.34	33.39	4.83	25.48	253	0.32
203	9.36	34.02	2.48	150	10.27	33.87	2.82	26.04	200	0.43
258	8.38	34.14	2.18	200	9.43	34.01	2.48	26.29	178	0.53
304	8.05	34.22	1.61	250	8.46	34.13	2.23	26.54	155	0.61
415	7.50	34.37	0.51	300	8.07	34.21	1.67	26.66	144	0.68
516	6.35	34.37	0.32	400	7.63	34.36	0.59	26.85	128	0.82
619	5.71	34.41	0.27	500	6.47	34.37	0.33	27.02	113	0.94
823	4.79	34.45	0.34	600	5.81	34.41	0.27	27.13	102	1.05
1028	4.06	34.56	0.56	700	5.30	34.42	0.27	27.21	96	1.15
1227	3.52	34.54	0.78	800	4.87	34.44	0.32	27.27	90	1.24
				1000	4.13	34.56	0.54	27.44	74	1.40

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{3}{g}$	dyn. m

110.80

YELLOWFIN; May 16, 1953; 2040 GCT; 28°16.5'N, 118°57.5'W; sounding, 1000+ fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 15°.

0	16.14	33.46	5.55	0	16.14	33.46	5.55	24.55	340	0.00
10	16.08	33.46	5.32	10	16.08	33.46	5.32	24.57	339	0.03
19	16.07	33.49	5.58	20	16.07	33.49	5.59	24.59	336	0.07
34	16.04	33.44	5.63	30	16.05	33.45	5.62	24.57	339	0.10
48	16.06	33.52	5.67	50	16.05	33.54	5.66	24.63	333	0.17
63	15.89	33.58	5.67	75	15.60	33.60	5.64	24.78	320	0.25
77	15.58	33.60	5.63	100	15.22	33.49	5.54	24.78	321	0.33
96	15.34	33.52	5.57	150	10.80	33.59	3.83	25.73	230	0.46
120	13.30	33.45	5.05	200	10.24	34.10	2.25	26.23	184	0.57
148	10.87	33.57	3.92	250	9.88	34.33	1.58	26.47	162	0.65
193	10.28	34.04	2.44	300	8.75	34.38	1.27	26.69	142	0.72
239	10.06	34.30	1.68	400	7.57	34.33	0.74	26.83	130	0.85
285	8.99	34.38	1.37	500	6.49	34.35	0.48	27.00	114	0.96
383	7.78	34.33	0.80							
477	6.68	34.35	0.54							
578	5.96	34.37	0.32							

110.90

YELLOWFIN; May 16, 1953; 1506 GCT; 27°56.5'N, 119°36'W; sounding, 1000+ fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 15°.

0	16.89	33.79	5.48	0	16.89	33.79	5.48	24.63	332	0.00
10	16.86	33.77	5.48	10	16.86	33.77	5.48	24.62	333	0.03
20	16.91	33.77	5.47	20	16.91	33.77	5.47	24.61	335	0.07
34	16.89	33.73	5.50	30	16.91	33.74	5.49	24.59	337	0.10
53	16.87	33.71	5.51	50	16.88	33.71	5.50	24.57	339	0.17
68	16.30	33.77	5.57	75	16.33	33.77	5.55	24.75	323	0.25
82	16.39	33.78	5.54	100	16.04	33.84	5.64	24.87	313	0.33
106	15.74	33.84	5.65	150	11.23	33.70	3.43	25.74	230	0.46
129	12.32	33.51	4.74	200	10.09	33.98	3.23	26.16	190	0.57
156	11.04	33.74	3.38	250	9.75	34.19	1.94	26.38	171	0.65
206	10.02	34.01	3.17	300	9.99	34.47	0.78	26.56	154	0.73
261	9.74	34.25	1.55	400	7.70	34.38	0.74	26.85	128	0.86
308	10.00	34.48	0.74	500	6.73	34.36	0.46	26.97	117	0.97
413	7.52	34.37	0.72	600	5.95	34.37	0.32	27.08	107	1.06
518	6.59	34.36	0.41							
624	5.77	34.37	0.30							

113.30

PAOLINA-T; May 20, 1953; 1950 GCT; 29°20.5'N, 115°19.5'W; sounding, 45 fm; wind, 300°, force 3; weather, partly cloudy; sea, moderate; wire angle, 02°.

0	11.61	33.57	5.34	0	11.61	33.57	5.34	25.57	243	0.00
10	11.00	33.51	5.09	10	11.00	33.51	5.09	25.64	237	0.02
20	10.91	33.53	4.99	20	10.91	33.53	4.99	25.67	234	0.05
30	10.87	33.57	4.55	30	10.87	33.57	4.55	25.71	231	0.07
50	10.16	33.68	3.83	50	10.16	33.68	3.83	25.92	211	0.11

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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PAOLINA-T; May 20, 1953; 1618 GCT; 29°11'N, 115°38.5'W; sounding, 1000 fm; wind, 310°, force 3; weather, cloudy; sea, moderate; wire angle, 17°.

113.35

0	14.36	33.45	6.14	0	14.36	33.45	6.14	24.94	303	0.00
10	14.14	33.42	6.16	10	14.14	33.42	6.16	24.96	301	0.03
19	12.45	33.33	5.94	20	12.43	33.33	5.94	25.23	275	0.06
34	12.34	33.34	5.94	30	12.36	33.33	5.94	25.25	274	0.07
53	12.30	33.48	5.88	50	12.30	33.46	5.92	25.36	263	0.14
67	10.82	33.51	4.77	75	10.40	33.62	3.90	25.83	220	0.20
81	10.18	33.68	3.71	100	9.63	33.73	3.39	26.04	200	0.25
105	9.57	33.75	3.31	150	9.40	34.09	2.37	26.36	171	0.34
128	9.45	33.94	2.84	200	9.24	34.26	1.50	26.52	156	0.42
156	9.39	34.12	2.24	250	8.71	34.27	1.17	26.61	149	0.50
196p	9.25	-	1.37r	300	8.16	34.25	0.93	26.68	142	0.56
206	9.21	34.27	1.44	400	7.37	34.34	0.59	26.87	126	0.69
305p	8.11	34.25	0.91	500	6.77	34.35	0.35	26.96	118	0.80
435p	7.14	34.36	0.49							
550p	6.50	34.34	0.25							

PAOLINA-T; May 20, 1953; 1215 GCT; 29°02'N, 115°58'W; sounding, 1100 fm; wind, 310°, force 4; weather, overcast; sea, rough; wire angle, 15°.

11340

0	14.85	33.32	6.13	0	14.85	33.32	6.13	24.73	323	0.00
10	14.85	33.34	6.03	10	14.85	33.34	6.03	24.75	321	0.03
19	14.82	33.32	6.03	20	14.81	33.32	6.02	24.74	322	0.06
34	14.43	33.27	6.06	30	14.54	33.28	6.05	24.77	320	0.10
53	13.75	33.34	6.18	50	13.86	33.32	6.18	24.94	314	0.16
68	13.10	33.39	6.04	75	12.40	33.37	5.77	25.27	284	0.23
83	11.47	33.32	5.30	100	11.12	33.63	3.84	25.71	232	0.29
106	11.01	33.77	3.26	150	10.58	34.15	1.97	26.21	185	0.40
130	10.62	34.03	2.31	200	10.03	34.32	1.44	26.44	165	0.48
164	10.54	34.21	1.72	250	9.97	34.55	0.51	26.63	147	0.56
213	9.90	34.36	1.29	300	9.27	34.49	0.53	26.70	141	0.62
255p	9.96	34.55	0.48	400	7.67	34.35	0.66	26.83	129	0.75
390p	7.76	34.35	0.66	500	(6.68)	(34.35)	(0.38)	(26.97)	(117)	(0.86)
493p	6.74	34.35	0.39							

PAOLINA-T; May 20, 1953; 0307 GCT; 28°42'N, 116°37'W; sounding, 2100 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 27°.

113.50

0	15.28	33.33	5.88	0	15.28	33.33	5.88	24.64	332	0.00
9	15.28	33.34	5.88	10	15.28	33.34	5.89	24.65	330	0.03
18	15.26	33.33	5.93	20	15.25	33.33	5.95	24.65	331	0.07
30	15.08	33.32	6.05	30	15.08	33.32	6.05	24.68	328	0.10
49	14.03	33.20	6.16	50	13.90	33.20	6.15	24.84	342	0.16
62	12.46	33.20	5.94	75	11.56	33.79	5.46	25.29	326	0.24
76	11.52	33.19	5.44	100	10.23	33.41	4.55	25.69	233	0.30
98	10.31	33.37	4.65	150	9.44	33.96	2.95	26.25	181	0.40
121	9.72	33.71	3.61	200	9.13	34.22	1.94	26.51	158	0.48
147	9.45	33.94	3.00	250	8.73	34.30	1.31	26.63	146	0.56
186p	9.58	34.10	2.43	300	8.36	34.34	0.93	26.72	138	0.62
197	9.17	34.21	2.03	400	7.51	34.37	0.53	26.87	126	0.74
326p	8.14	34.35	0.79	500	6.60	34.39	0.33	27.01	113	0.85
450p	7.06	34.38	0.40							
562p	6.05	34.42	0.26							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \frac{3}{\text{cm}^3/\text{g}}$	dyn. m

113.60

PAOLINA-T; May 19, 1953; 2208 GCT; 28°22'N, 117°16'W; sounding, 2190 fm; wind, 310°, force 5; weather, overcast; sea, rough; wire angle, 24°.

0	16.42	33.51	5.81	0	16.42	33.51	5.81	24.53	342	0.00
9	16.42	33.53	5.72	10	16.42	33.53	5.72	24.54	341	0.03
18	16.40	33.51	5.78	20	16.40	33.51	5.78	24.53	342	0.07
32	16.40	33.53	5.77	30	16.40	33.53	5.78	24.55	341	0.10
49	16.38	33.52	5.86	50	16.38	33.52	5.87	24.54	336	0.17
63	15.68	33.51	5.97	75	15.57	33.50	5.92	24.71	319	0.25
75	15.57	33.50	5.92	100	14.05	33.41	5.92	24.97	303	0.33
96	14.46	33.42	5.94	150	10.08	33.65	3.98	25.91	214	0.46
117	11.82	33.40	4.77	200	9.22	33.98	3.12	26.31	177	0.55
143	10.26	33.58	4.15	250	8.57	34.10	2.59	26.50	159	0.64
189	9.38	33.95	3.19	300	8.00	34.19	1.61	26.66	144	0.71
241	8.70	34.08	2.79	400	7.38	34.31	0.76	26.84	128	0.83
284	8.12	34.17	1.81	500	6.44	34.38	0.35	27.03	111	0.94
385	7.54	34.30	0.85	600	(5.83)	(34.45)		(27.16)	(100)	(1.03)
485	6.54	34.37	0.36							
589	5.90	34.44	0.36							

113.70

PAOLINA-T; May 19, 1953; 1537 GCT; 27°59'N, 117°53'W; sounding, 1900 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 05°.

0	16.71	33.52	5.66	0	16.71	33.52	5.66	24.47	348	0.00
10	15.77r	33.53	5.94r	10	16.72	33.53	5.65	24.47	348	0.04
20	16.72	33.51	5.65	20	16.72	33.51	5.65	24.46	349	0.07
35	16.69	33.50	5.75	30	16.71	33.50	5.70	24.45	350	0.10
55	15.88	33.54	5.84	50	16.14	33.53	5.83	24.61	346	0.17
70	15.54	33.56	5.88	75	15.40	33.55	5.89	24.79	330	0.25
85	15.04	33.47	5.91	100	14.12	33.43	5.67	24.97	303	0.33
110	13.38	33.43	5.36	150	10.88	33.55	4.21	25.69	235	0.46
135	11.71	33.47	4.41	200	9.16	33.99	3.21	26.32	175	0.56
164	9.95	33.68	4.02	250	8.58	34.11	2.50	26.51	158	0.64
218	8.93	34.07	2.88	300	8.08	34.18	1.88	26.64	146	0.72
277	8.32	34.14	2.19	400	6.92	34.30	0.89	26.90	122	0.84
326	7.76	34.22	1.50	500	6.29	34.38	0.44	27.05	109	0.94
436	6.62	34.33	0.65	600	5.74	34.42	0.32	27.15	100	1.03
546	6.06	34.41	0.34							
654	5.38	34.41	0.30							

117.26

PAOLINA-T; May 18, 1953; 0534 GCT; 28°57'N, 114°40'W; sounding, 41 fm; wind, 310°, force 3; weather, clear; sea, rough; wire angle, 00°.

0	13.42	33.66	5.43	0	13.42	33.66	5.43	25.29	270	0.00
10	13.37	33.73	5.46	10	13.37	33.73	5.46	25.36	263	0.03
25	12.36	33.78	4.77	20	12.70	33.76	5.25	25.51	249	0.05
40	11.20	33.88	2.15	30	11.98	33.79	4.15	25.67	234	0.08
50	11.03	34.04	0.64	50	11.03	34.04	0.64	26.04	199	0.12

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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PAOLINA-T; May 18, 1953; 0810 GCT; 28°48'N, 114°55'W; sounding, 57 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 19°.

117.30

0	14.39	33.72	6.37	0	14.39	33.72	6.37	25.14	284	0.00
9	14.40	33.76	6.39	10	14.40	33.77	6.39	25.17	281	0.03
19	12.79	33.87	5.38	20	12.68	33.87	5.37	25.60	240	0.05
28	11.68	33.86	4.34	30	11.56	33.86	4.15	25.81	221	0.08
38	11.02	33.85	3.32	50	10.52	33.99	1.50	26.09	195	0.12
52	10.52	34.05	1.14	75	10.70	34.29	0.40	26.30	176	0.16
67	10.70	34.27	0.38							
76	10.68	34.29	0.39							

PAOLINA-T; May 18, 1953; 1135 GCT; 28°36.5'N, 115°15'W; sounding, 95 fm; wind, 310°, force 4; weather, overcast; sea, very rough; wire angle, 15°.

117.35

0	13.43	33.40	6.08	0	13.43	33.40	6.08	25.09	289	0.00
10	13.45	-	6.05	10	13.45	33.38	6.05	25.07	290	0.03
24	13.37	33.37	6.06	20	13.42	33.37	6.06	25.07	291	0.06
48	12.33	33.40	5.51	30	13.20	33.37	6.05	25.13	285	0.09
73	10.72	33.70	3.55	50	12.24	33.41	5.33	25.33	267	0.14
97	10.42	34.06	2.13	75	10.70	33.72	3.40	25.85	218	0.20
				100	(10.38)	(34.08)	(1.90)	(26.19)	(186)	(0.25)

PAOLINA-T; May 18, 1953; 1504 GCT; 28°26'N, 115°36'W; sounding, 320 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 23°.

117.40

0	15.14	33.37	5.87	0	15.14	33.37	5.87	24.71	325	0.00
9	15.11	33.42	5.81	10	15.11	33.42	5.81	24.75	321	0.03
23	14.66	33.44	5.97	20	14.82	33.44	5.95	24.83	313	0.06
46	11.62	33.33	5.31	30	13.55	33.42	5.93	25.08	290	0.09
69	10.90	33.98	2.76	50	11.41	33.33	4.86	25.42	259	0.15
92	10.72	34.13	1.88	75	10.83	34.03	2.48	26.07	197	0.20
143	10.44	34.33	1.26	100	10.68	34.18	1.73	26.21	184	0.25
189	10.20	34.39	1.16	150	10.39	34.34	1.24	26.39	168	0.34
207p	10.38	34.49	0.83	200	10.35	34.44	0.97	26.47	161	0.42
235	10.11	34.60	0.51	250	9.77	34.55	0.54	26.66	144	0.49
271p	9.46	34.47	0.58	300	9.26	34.49	0.58	26.70	141	0.56
317p	9.19	34.50	0.57	400	8.48	34.47	0.42	26.81	132	0.69
373p	9.02	34.49	0.46							
413p	8.16	34.46	0.40							

PAOLINA-T; May 18, 1953; 2102 GCT; 28°07.5'N, 116°15'W; sounding, 2550 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 27°.

117.50

0	14.99	33.60	6.37	0	14.99	33.60	6.37	24.92	305	0.00
9	14.99	33.62	6.48	10	15.00	33.63	6.48	24.94	303	0.03
18	15.07	33.69	6.42	20	15.07	33.70	6.42	24.97	300	0.06
31	15.02	33.72	6.59	30	15.03	33.72	6.59	25.00	298	0.09
49	11.55	-	4.90	50	11.50	33.65	4.85	25.65	236	0.14
63	10.62	33.59	4.25	75	9.99	33.71	3.35	25.97	209	0.20
76	9.98	33.72	3.32	100	9.95	33.94	2.53	26.15	189	0.25
99	9.95	33.94	2.53	150	9.40	34.11	2.28	26.38	169	0.34
122	9.75	34.02	2.45	200	8.80	34.27	1.63	26.60	149	0.41
149	9.41	34.11	2.28	250	8.45	34.34	1.01	26.71	139	0.48
198	8.80	34.26	1.67	300	7.86	34.33	0.98	26.79	132	0.54
252	8.44	34.34	1.01	400	7.15	34.37	0.46	26.92	121	0.66
298	7.88	34.33	0.99	500	6.32	34.45	0.30	27.10	105	0.76
406	7.11	34.38	0.43	600	5.73	34.43	0.33	27.16	100	0.84
510	6.24	34.46	0.29							
618	5.64	34.42	0.33							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn.m

11760

PAOLINA-T; May 19, 1953; 0309 GCT; 27°48'N, 116°53.5'W; sounding, 2370 fm; wind, 310°, force 3; weather, cloudy; sea, moderate; wire angle, 27°.

0	15.80	33.35	5.77	0	15.80	33.35	5.77	24.55	340	0.00
9	15.80	33.36	5.92	10	15.80	33.36	5.91	24.55	340	0.03
18	15.76	33.30	5.72	20	15.77	33.30	5.72	24.51	344	0.07
31	15.81	33.35	5.74	30	15.81	33.35	5.73	24.54	342	0.10
49	15.61	33.36	5.83	50	15.58	33.36	5.83	24.60	336	0.17
62	15.16	33.31	5.87	75	14.32	33.27	5.92	24.81	317	0.25
75	14.32	33.27	5.92	100	12.55	33.23	5.74	25.13	287	0.33
95	13.12	33.23	5.83	150	9.93	33.86	3.49	26.09	196	0.44
114	11.12	33.26	5.12	200	9.97	34.22	1.89	26.37	171	0.54
139	9.90	33.60	4.02	250	9.42	34.33	1.55	26.55	155	0.61
185	10.05	34.17	2.00	300	8.90	34.38	1.16	26.67	144	0.68
251p	9.41	34.33	1.54	400	7.90	34.42	0.57	26.85	127	0.81
405p	7.84	34.42	0.55	500	6.78	34.41	0.61	27.01	114	0.92
524p	6.50	34.41	0.62							

11760

PAOLINA-T; May 19, 1953; 0849 GCT; 27°30'N, 117°33.5'W; sounding, 2350 fm; wind, 300°, force 4; weather, overcast; sea, very high; wire angle, 18°.

0	16.72	33.55	5.71	0	16.72	33.55	5.71	24.49	346	0.00
10	16.74	33.49	5.65	10	16.74	33.49	5.65	24.44	351	0.04
19	16.73	33.50	5.68	20	16.72	33.50	5.69	24.45	350	0.07
33	16.73	33.44	5.68	30	16.72	33.45	5.69	24.41	354	0.10
52	16.20	33.44	5.80	50	16.25	33.43	5.78	24.50	346	0.18
67	15.72	33.46	5.84	75	15.30	33.38	5.84	24.68	330	0.26
81	14.98	33.33	5.84	100	13.22	33.40	5.53	25.13	287	0.34
105	12.78	-	5.39	150	10.95	33.90	2.89	25.95	210	0.46
129	11.06	-	4.44	200	10.56	34.22	1.77	26.27	181	0.55
158	10.91	33.96	2.46	250	10.25	34.52	0.82	26.55	155	0.63
210	10.49	34.29	1.59	300	9.50	34.49	0.71	26.66	145	0.71
268	10.10	34.55	0.69	400	8.27	34.46	0.53	26.83	130	0.83
317	9.20	34.46	0.71	500	7.02	34.43	0.33	26.99	116	0.94
428	7.94	34.46	0.46	600	6.03	34.43	0.34	27.12	104	1.04
535	6.62	34.42	0.30							
643	5.70	34.45	0.38							

120.25

PAOLINA-T; May 17, 1953; 2300 GCT; 28°21.5'N, 114°17.5'W; sounding, 35 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 00°.

0	14.52	33.71	6.12	0	14.52	33.71	6.12	25.10	288	0.00
10	14.48	33.73	6.07	10	14.48	33.73	6.07	25.13	286	0.03
25	12.84	33.63	4.95	20	13.48	33.65	5.50	25.27	272	0.06
40	11.46	33.75	2.95	30	12.37	33.64	4.45	25.48	252	0.08

120.30

PAOLINA-T; May 17, 1953; 1953 GCT; 28°12.5'N, 114°35.5'W; sounding, 57 fm; wind, 240°, force 4; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	14.60	33.69	6.83	0	14.60	33.69	6.83	25.07	290	0.00
10	14.14	33.58	6.56	10	14.14	33.58	6.56	25.08	290	0.03
25	13.97	33.62	5.80	20	14.03	33.61	6.06	25.13	286	0.06
40	12.68	33.52	5.37	30	13.73	33.62	5.67	25.20	279	0.09
50	11.10	33.56	4.84	50	11.10	33.56	4.84	25.66	236	0.14

120.35

PAOLINA-T; May 17, 1953; 1648 GCT; 28°03'N, 114°54'W; sounding, 46 fm; wind, 310°, force 5; weather, cloudy; sea, rough; wire angle, 05°.

0	15.28	33.67	6.21	0	15.28	33.67	6.21	24.91	305	0.00
10	15.28	33.53	6.19	10	15.28	33.53	6.19	24.80	316	0.03
20	15.27	33.59	6.19	20	15.27	33.59	6.19	24.85	312	0.06
30	15.26	33.66	6.19	30	15.26	33.66	6.19	24.90	307	0.09
50	13.36	33.60	5.50	50	13.36	33.60	5.50	25.26	274	0.15

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn.m

S10
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PAOLINA-T; May 17, 1953; 1003 GCT; 27°44'N, 115°30'W; sounding, 1400 fm; wind, 310°, force 4; weather, cloudy; sea, rough; wire angle, 25°.

12045

0	14.44	33.82	5.65	0	14.44	33.82	5.65	25.20	278	0.00
9	14.47	33.79	5.84	10	14.48	33.79	5.84	25.17	280	0.03
18	14.45	33.79	5.84	20	14.45	33.79	5.84	25.18	280	0.06
32	13.22	33.85	4.54	30	13.70	33.84	4.76	25.37	262	0.08
45	12.66	33.89	4.20	50	12.45	33.89	4.09	25.66	236	0.13
59	11.93	33.85	3.87	75	11.30	33.93	3.20	25.91	212	0.19
71	11.75	33.93	3.39	100	10.41	33.92	2.64	26.06	199	0.24
87	10.53	33.88	2.86	150	9.87	34.19	2.02	26.36	170	0.33
107	10.35	33.98	2.54	200	9.47	34.28	1.42	26.50	158	0.41
128	10.08	34.20	2.22	250	9.20	34.32	1.00	26.57	152	0.48
168	9.72	34.17	1.85	300	8.86	34.37	0.68	26.67	144	0.55
207	9.42	34.30	1.35	400	7.90	34.46	0.32	26.89	125	0.68
286p	8.98	34.35	0.75	500	6.86	34.42	0.26	27.00	114	0.78
386p	8.04	34.46	0.33							
500p	6.86	34.42	0.26							

PAOLINA-T; May 17, 1953; 0618 GCT; 27°32'N, 115°42'W; sounding, 2550 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 22°.

12050

0	15.96	33.58	6.03	0	15.96	33.58	6.03	24.69	327	0.00
9	15.84	33.62	6.04	10	15.83	33.62	6.04	24.75	322	0.03
23	14.59	33.40	6.30	20	15.00	33.40	6.29	24.76	321	0.06
51	11.52	33.50	4.36	30	13.80	33.40	6.27	25.01	297	0.10
74	10.69	33.69	3.53	50	11.54	33.50	4.40	25.53	248	0.15
102	9.91	33.85	3.55	75	10.66	33.70	3.52	25.84	218	0.21
153	10.04	34.30	1.62	100	9.90	33.84	3.55	26.08	196	0.26
204	10.29	34.59	0.57	150	10.02	34.28	1.72	26.41	166	0.35
272p	9.35	34.54	0.60	200	10.28	34.58	0.59	26.60	149	0.43
400p	7.80	34.50	0.30	250	9.68	34.56	0.60	26.68	140	0.50
511p	6.72	34.48	0.28	300	8.98	34.53	0.55	26.77	134	0.57
741p	5.03	34.48	0.32	400	7.80	34.50	0.30	26.93	120	0.70
976p	4.06	34.59	0.61	500	6.81	34.48	0.28	27.06	109	0.81
1197p	3.52	34.60	0.90	600	6.00	34.47	0.28	27.16	100	0.92
				700	5.26	34.47	0.30	27.25	91	1.01
				800	4.75	34.51	0.39	27.34	84	1.10
				1000	3.99	34.59	0.64	27.48	70	1.25

PAOLINA-T; May 16, 1953; 2302 GCT; 27°14'N, 116°27'W; sounding, 2350 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 15°.

12060

0	16.17	33.37	5.78	0	16.17	33.37	5.78	24.48	347	0.00
10	16.20	33.41	5.82	10	16.20	33.41	5.82	24.50	345	0.04
19	16.02	33.37	5.79	20	16.01	33.37	5.80	24.51	344	0.07
34	15.98	33.38	5.85	30	16.00	33.38	5.83	24.52	343	0.10
48	15.62	33.37	6.03	50	15.50	33.36	6.04	24.62	335	0.17
63	14.52	33.30	6.05	75	13.98	33.25	6.10	24.86	312	0.25
77	13.88	33.24	6.11	100	11.75	33.19	5.00	25.25	275	0.32
97	11.88	33.19	5.18	150	10.30	33.85	3.63	26.02	203	0.44
121	11.12	33.58	4.05	200	9.65	34.17	2.41	26.38	169	0.53
150	10.30	33.85	3.63	250	10.00	34.45	1.10	26.54	156	0.61
198	9.65	34.15	2.49	300	9.00	34.43	0.90	26.69	142	0.68
228p	9.81	34.43	1.56	400	8.01	34.48	0.43	26.88	125	0.80
246	10.00	34.45	1.13	500	6.74	34.46	0.33	27.05	110	0.91
314p	8.79	34.43	0.84							
428p	7.70	34.49	0.36							
534p	6.22	34.44	0.32							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

120.70

PAOLINA-T; May 16, 1953; 1716 GCT; 26°55'N, 117°09.5'W; sounding, 2170 fm; wind, 310°, force 4; weather, cloudy; sea, very rough; wire angle, 22°.

0	16.40	33.48	5.75	0	16.40	33.48	5.75	24.51	344	0.00
9	16.40	33.48	5.76	10	16.40	33.48	5.77	24.51	344	0.03
23	16.40	33.48	5.82	20	16.40	33.48	5.80	24.51	344	0.07
51	15.38	33.41	6.01	30	16.35	33.48	5.87	24.52	344	0.10
74	14.12	33.44	5.82	50	15.42	33.41	6.00	24.68	329	0.17
101	11.68	33.43	4.60	75	14.00	33.44	5.80	25.00	300	0.25
154	10.98	34.03	2.41	100	11.72	33.43	4.69	25.44	257	0.32
204	10.87	34.38	1.27	150	11.02	33.97	2.60	25.99	206	0.43
260	10.90	33.41r	5.95r	200	10.88	34.36	1.32	26.32	176	0.52
284p	10.47	34.55	0.73	250	10.90	34.51	0.93	26.43	166	0.61
385p	9.19	34.50	0.36	300	10.22	34.55	0.65	26.58	153	0.68
527p	7.36	34.46	0.32	400	9.00	34.50	0.35	26.75	138	0.82
748p	5.26	34.44	0.29	500	7.71	34.47	0.32	26.92	123	0.94
1003p	4.19	-	0.58	600	6.55	34.45	0.31	27.07	109	1.04
1215p	3.52	34.60	0.83	700	5.62	34.44	0.30	27.18	99	1.12
				800	4.98	34.45	0.36	27.26	91	1.19
				1000	4.21	34.52	0.59	27.40	78	1.30

120.80

PAOLINA-T; May 16, 1953; 0953 GCT; 26°35'N, 117°47'W; sounding, 2350 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 08°.

0	16.52	33.48	5.88	0	16.52	33.48	5.88	24.48	347	0.00
10	16.56	33.51	5.96	10	16.56	33.51	5.96	24.49	345	0.04
20	16.53	33.47	5.85	20	16.53	33.47	5.85	24.47	348	0.07
35	16.54	33.51	5.91	30	16.54	33.50	5.90	24.49	346	0.10
54	16.20	33.51	5.95	50	16.40	33.51	5.94	24.53	343	0.17
69	15.12	33.40	6.03	75	14.93	33.41	6.02	24.78	320	0.26
84	14.62	33.42	6.03	100	13.52	33.37	5.82	25.05	295	0.33
108	13.01	33.36	5.65	150	10.39	33.73	4.10	25.91	213	0.46
133	11.33	33.48	4.72	200	10.48	(34.20)	1.85	(26.26)	(181)	(0.55)
163	10.26	33.89	3.52	250	10.23	(34.41)	0.93	(26.47)	(163)	(0.64)
216	10.54	-	1.43	300	9.52	(34.50)	0.53	(26.66)	(145)	(0.71)
279	9.84	-	0.65	400	8.05	34.46	0.41	26.86	127	(0.84)
323	9.14	34.51	0.45	500	7.04	34.46	0.32	27.01	114	(0.94)
435	7.63	34.43	0.39	600	6.22	34.47	0.30	27.13	103	(1.03)
542	6.67	34.48	0.31							
650	5.84	34.46	0.31							

120.90

PAOLINA-T; May 16, 1953; 0214 GCT; 26°13'N, 118°28'W; sounding, 2100 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 10°.

0	16.91	33.58	5.72	0	16.91	33.58	5.72	24.47	348	0.00
10	16.93	33.55	5.71	10	16.93	33.55	5.71	24.44	351	0.04
25	16.92	33.55	5.69	20	16.92	33.55	5.70	24.44	351	0.07
54	16.25	33.55	5.80	30	16.90	33.55	5.70	24.45	351	0.10
79	15.16	33.45	5.80	50	16.40	33.55	5.79	24.56	340	0.17
108	12.00	33.52	4.46	75	15.45	33.45	5.80	24.70	327	0.26
162	10.59	33.98	2.64	100	12.60	33.49	4.83	25.32	269	0.33
216	9.73	34.34	1.58	150	10.83	33.88	3.00	25.95	210	0.45
275	9.22	34.45	0.88	200	9.93	34.27	1.85	26.41	166	0.54
323	8.96	34.46	0.52	250	9.40	34.42	1.14	26.62	148	0.62
433	7.80	34.47	0.34	300	9.09	34.46	0.67	26.70	141	0.68
539	6.74	34.45	0.19	400	8.18	34.47	0.39	26.85	128	0.81
644	5.84	34.49	0.23	500	7.14	34.45	0.24	26.99	116	0.92
850	4.64	34.50	0.38	600	6.19	34.47	0.20	27.13	102	1.01
1060	3.93	34.54	0.55	700	5.48	34.49	0.27	27.24	93	1.09
1262	3.42	34.58	0.87	800	4.90	34.50	0.33	27.31	86	1.15
				1000	4.10	34.53	0.50	27.42	76	1.25

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

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PAOLINA-T; May 14, 1953; 1635 GCT; 27°23.5'N, 114°39'W; sounding, 42 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

123.37

0	13.12	34.00	6.14	0	13.12	34.00	6.14	25.61	239	0.00
10	13.10	34.04	5.74	10	13.10	34.04	5.74	25.65	235	0.02
20	12.97	-	5.42	20	12.97	34.04	5.42	25.68	233	0.05
29	12.72	34.04	4.75	30	12.72	34.04		25.72	229	0.07
50	11.64	34.34	1.61r	50	11.64	34.34		26.16	188	0.11

PAOLINA-T; May 14, 1953; 1901 GCT; 27°17'N, 114°48.5'W; sounding, 440 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 15°.

123.40

0	13.33	33.85	6.27	0	13.33	33.85	6.27	25.46	254	0.00
9	13.22	33.85	6.17	10	13.21	33.85	6.14	25.48	252	0.02
19	13.11	33.86	5.84	20	13.10	33.86	5.80	25.51	249	0.05
33	12.44	33.83	4.92	30	12.59	33.83	5.10	25.59	242	0.08
48	12.10	33.83	4.16	50	12.02	33.83	4.04	25.70	232	0.12
62	11.12	33.91	3.04	75	11.71	34.32	1.65	26.14	191	0.18
76	11.72	34.33	1.60	100	11.80	34.47	1.05	26.24	182	0.22
95	11.84	34.47	1.09	150	11.28	34.63	0.59	26.46	162	0.31
119	11.57	34.49	0.92	200	10.87	34.67	0.41	26.56	153	0.39
146	11.33	34.62	0.61	250	10.49	34.69	0.39	26.64	146	0.46
194	10.91	34.67	0.41	300	9.91	34.65	0.26	26.71	141	0.53
240	10.58	34.69	0.41	400	8.44	34.56	0.39	26.88	126	0.66
288	10.06	34.66	0.25	500	7.21	34.50	0.31	27.02	113	0.78
388	8.60	34.57	0.39	600	(5.99)	(34.49)		(27.17)	(98)	(0.89)
484	7.39	34.50	0.32							
587	6.16	34.49	0.30							

PAOLINA-T; May 15, 1953; 0109 GCT; 26°56.5'N, 115°25'W; sounding, 2050 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 27°.

123.50

0	15.57	33.52	6.35	0	15.57	33.52	6.35	24.73	322	0.00
9	15.48	33.52	6.37	10	15.47	33.52	6.38	24.75	321	0.03
18	15.37	33.51	6.39	20	15.34	33.51	6.40	24.77	320	0.06
31	14.53	33.52	6.46	30	14.75	33.52	6.46	24.91	307	0.10
42	12.36	33.29	5.73	50	11.64	33.25	5.57	25.32	268	0.15
61	11.34	33.24	5.27	75	11.48	33.51	4.40	25.55	246	0.22
74	11.48	33.50	4.42	100	10.64	33.76	3.29	25.89	214	0.27
94	10.66	33.67	3.61	150	10.29	34.20	1.83	26.30	177	0.37
113	10.64	33.95	2.63	200	9.83	34.37	1.20	26.51	158	0.45
137	10.40	34.11	2.09	250	9.22	34.39	0.87	26.63	147	0.52
181	10.04	34.36	1.35	300	8.60	34.42	0.62	26.75	136	0.59
275p	8.90	34.41	0.73	400	7.58		0.33			
381p	7.77	34.47	0.36	500	(6.67)		(0.28)			
490p	6.74	-	0.28							

PAOLINA-T; May 15, 1953; 0718 GCT; 26°36.5'N, 116°00'W; sounding, 2000+ fm; wind, 310°, force 3; weather, overcast; sea, moderate; wire angle, 09°.

123.60

0	17.70	33.92	5.61	0	17.70	33.92	5.61	24.54	341	0.00
10	17.74	33.92	5.64	10	17.74	33.92	5.64	24.53	342	0.03
19	17.71	33.86	5.59	20	17.72	33.86	5.59	24.49	346	0.07
34	17.74	33.89	5.59	30	17.74	33.88	5.59	24.50	346	0.10
54	17.30	33.90	5.71	50	17.41	33.90	5.69	24.59	338	0.17
69	16.82	33.84	5.69	75	16.50	33.79	5.67	24.72	326	0.25
83	15.34	33.72	5.62	100	13.11	33.53	4.93	25.29	272	0.33
108	12.30	33.52	4.66	150	10.60	33.86	3.33	25.98	207	0.45
133	11.00	33.71	3.79	200	9.85	34.18	2.29	26.36	172	0.54
163	10.35	33.96	3.02	250	9.33	34.32	1.48	26.55	154	0.62
217	9.67	34.23	1.99	300	8.87	34.44	0.82	26.72	139	0.70
349p	8.44	34.50	0.45	400	8.04	34.51	0.33	26.90	123	0.83
476p	7.34	34.51	0.24	500	7.09	34.50	0.23	27.03	111	0.94
580p	6.20	34.42	0.21	600	(5.94)	(34.41)		(27.12)	(106)	(1.05)

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{ cm}^3/\text{g}$	dyn. m

127.34

PAOLINA-T; May 14, 1953; 0952 GCT; 26°54.5'N, 114°05.5'W; sounding, 44 fm; wind, direction missing, force 1; weather, clear; sea, moderate; wire angle, 00°.

0	13.72	-	6.01	0	13.72	(33.76)	6.01	(25.31)	(268)	(0.00)
10	13.74	33.77	5.82	10	13.74	33.77	5.82	25.31	268	0.03
20	13.48	33.85	4.83	20	13.48	33.85	4.83	25.43	257	0.05
30	12.32	-	2.69	30	12.32	33.94	2.69	25.73	229	0.08
50	11.98	34.04	2.35	50	11.98	34.04	2.35	25.87	216	0.12

127.40

PAOLINA-T; May 14, 1953; 0511, 0542 GCT; 26°40.5'N, 114°27'W; sounding, 1750 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 22°, 34°.

0	15.81	33.73	5.90	0	15.81	33.73	5.90	24.83	313	0.00
9	15.81	33.70	5.91	10	15.81	33.70	5.90	24.81	315	0.03
19	15.18	33.70	5.89	20	15.00	33.70	5.89	24.99	298	0.06
33	13.14	33.72	5.05	30	13.55	33.71	5.40	25.30	269	0.09
51	11.60	33.73	3.68	50	11.70	33.73	3.79	25.68	233	0.14
65	10.96	33.88	3.09	75	11.08	34.08	2.43	26.07	197	0.19
79	11.13	34.14	2.27	100	10.93	34.39	1.60	26.33	172	0.24
102	10.93	-	1.50	150	11.11	34.63	0.55	26.49	159	0.32
125	11.44	34.56	0.66	200	10.55	34.64	0.40	26.60	150	0.40
153	11.08	34.63	0.53	250	9.95	34.62	0.29	26.68	142	0.46
204	10.51	34.64	0.39	300	9.39	34.57	0.25	26.74	137	0.53
260	9.84	34.61	0.26	400	8.19	34.52	0.25	26.89	124	0.65
303	9.36	34.56	0.25	500	7.10	34.52	0.19	27.05	120	0.76
				600	6.20	34.50	0.25	27.15	101	0.84
396	8.22	34.52	0.25							
500	7.10	34.52	0.19							
609	6.12	34.50	0.25							

127.50

PAOLINA-T; May 13, 1953; 2213 GCT; 26°24'N, 115°07.5'W; sounding, 2200 fm; wind, 270°, force 3; weather, partly cloudy; sea, moderate; wire angle, 22°.

0	17.36	33.74	5.69	0	17.36	33.74	5.69	24.48	346	0.00
9	17.19	33.76	5.70	10	17.19	33.76	5.70	24.54	341	0.03
18	16.98	33.75	5.73	20	16.97	33.74	5.74	24.58	338	0.07
32	16.95	33.70	5.77	30	16.96	33.71	5.77	24.55	340	0.10
51	16.82	33.67	5.75	50	16.85	33.67	5.77	24.55	341	0.17
65	16.50	33.83r	5.67	75	15.30	33.64	5.50	24.88	311	0.25
79	14.62	33.62	5.39	100	13.18	33.51	4.82	25.22	278	0.32
102	13.00	33.51	4.78	150	10.48	33.93	3.10	26.05	200	0.44
125	11.37	33.84	3.52	200	9.67	34.26	2.00	26.45	163	0.53
152	10.39	33.94	3.05	250	9.52	34.33	0.85	26.53	156	0.61
201	9.66	34.26	1.96	300	8.88	34.52	0.52	26.78	133	0.68
255	9.50	34.34	0.79	400	7.62	34.47	0.32	26.93	120	0.79
298	8.90	34.52	0.52	500	6.53	34.41	0.33	27.04	111	0.89
401	7.60	34.47	0.31	600	5.83	34.42	0.27	27.14	102	0.98
502	6.50	34.41	0.33							
606	5.82	34.42	0.25							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁵ cm ³ /g	dyn. m

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PAOLINA-T; May 13, 1953; 1530 GCT; 26°02'N, 115°39'W; sounding, 2150 fm; wind, 310°, force 3; weather, cloudy; sea, rough; wire angle, 08°.

127.60

0	17.84	33.95	5.48	0	17.84	33.95	5.48	24.53	342	0.00
10	17.84	33.94	5.43	10	17.84	33.94	5.43	24.52	343	0.03
20	17.83	33.97	5.44	20	17.83	33.97	5.44	24.55	341	0.07
35	17.86	33.94	5.42	30	17.85	33.95	5.44	24.53	343	0.10
55	17.80	33.96	5.41	50	17.83	33.96	5.41	24.54	342	0.17
69	17.41	33.94	5.61	75	17.15	33.91	5.57	24.66	331	0.26
84	16.76	33.82	5.42	100	15.40	33.63	5.28	24.85	314	0.34
109	14.34	33.60	5.17	150	11.09	33.71	3.74	25.78	226	0.47
133	11.92	33.61	4.24	200	9.98	34.04	2.60	26.23	184	0.57
163	10.65	33.83	3.40	250	9.90	34.43	1.14	26.54	155	0.66
218	9.85	34.19	2.11	300	9.50	34.55	0.58	26.70	141	0.73
236p	9.94	34.36	1.39	400	8.42	34.55	0.29	26.88	126	0.87
337p	9.08	34.57	0.28	500	7.35	34.51	0.27	27.00	114	0.99
466p	7.66	34.52	0.30							
567p	6.76	34.50	0.17							

PAOLINA-T; May 12, 1953; 1342 GCT; 26°28'N, 113°30.5'W; sounding, 45 fm; wind, 310°, force 2; weather, partly cloudy; sea, moderate; wire angle, 00°.

130.30

0	13.58	33.90	5.49	0	13.58	33.90	5.49	25.44	255	0.00
10	13.59	33.92	5.23	10	13.59	33.92	5.23	25.46	253	0.02
20	13.58	33.89	5.26	20	13.58	33.89	5.26	25.44	256	0.05
30	13.60	33.86	5.31	30	13.60	33.86	5.31	25.41	259	0.08
50	12.14	34.08	1.97	50	12.14	34.08	1.97	25.87	216	0.12

PAOLINA-T; May 12, 1953; 1533 GCT; 26°17.5'N, 113°48.5'W; sounding, 100 fm; wind, 310°, force 3; weather, cloudy; sea, moderate; wire angle, 05°.

130.35

0	15.03	33.70	5.56	0	15.03	33.70	5.56	24.98	298	0.00
10	14.98	33.68	5.45	10	14.98	33.68	5.45	24.98	299	0.03
25	13.86	33.76	4.81	20	14.23	33.71	5.10	25.16	282	0.06
50	12.42	33.94	2.99	30	13.60	33.80	4.40	25.36	263	0.09
75	12.05	34.18	2.01	50	12.42	33.94	2.99	25.71	231	0.14
99	11.93	34.32	1.26	75	12.05	34.18	2.01	25.96	208	0.19
124	11.74	34.49	0.64	100	11.92	34.32	1.25	26.10	195	0.24
154	11.42	34.61	-	150	11.49	34.60		26.39	168	0.32

PAOLINA-T; May 12, 1953; 1948 GCT; 26°08'N, 114°06'W; sounding, 1260 fm; wind, 310°, force 3; weather, partly cloudy; sea, rough; wire angle, 05°.

130.40

0	16.69	33.73	5.80	0	16.69	33.73	5.80	24.63	332	0.00
10	16.50	33.68	5.78	10	16.50	33.68	5.78	24.64	332	0.03
25	14.82	33.55	5.86	20	15.60	33.60	5.83	24.78	319	0.07
55	12.14	33.52	4.91	30	14.20	33.53	5.87	25.03	295	0.10
79	11.80	33.84	3.24	50	12.30	33.51	5.20	25.40	261	0.15
108	10.69	34.00	2.49	75	11.85	33.79	3.50	25.70	232	0.21
162	10.12	34.27	1.64	100	10.90	33.96	2.63	26.00	204	0.27
215	10.18	-	0.52	150	10.15	34.22	1.87	26.34	173	0.36
273	9.47	34.52	0.35	200	10.16	34.36	0.69	26.44	164	0.45
323	8.88	34.59	0.28	250	9.79	34.47	0.40	26.59	151	0.52
434	7.56	34.52	0.28	300	9.14	34.57	0.30	26.78	134	0.60
542	6.52	34.51	0.27	400	7.97	34.54	0.28	26.94	119	0.72
649	5.83	34.43	0.24	500	6.90	34.51	0.28	27.07	108	0.84
858	4.59	34.51	0.40	600	6.12	34.46	0.26	27.13	103	0.94
1067	3.74	34.55	0.71	700	5.50	34.44	0.27	27.19	97	1.04
1269	3.32	34.59	0.94	800	4.88	34.49	0.33	27.31	88	1.13
				1000	3.99	34.54	0.62	27.44	72	1.29

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

130.50

PAOLINA-T; May 13, 1953; 0225 GCT; 25°47'N, 114°40'W; sounding, 1250 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 35°.

0	15.83	33.58	5.92	0	15.83	33.58	5.92	24.71	324	0.00
8	15.61	33.57	6.04	10	15.61	33.57	6.06	24.76	320	0.03
17	15.36	33.54	6.14	20	15.30	33.53	6.16	24.79	317	0.06
29	15.12	33.53	6.19	30	15.12	33.53	6.18	24.83	314	0.10
40	14.52	33.48	5.79	50	13.50	33.45	5.29	25.11	287	0.16
52	13.20	-	5.19	75	10.84	33.51	3.97	25.67	236	0.22
63	11.85	33.44	4.75	100	10.94	33.84	2.85	25.90	213	0.28
78	10.82	33.57	3.80	150	11.20	34.47	0.87	26.35	173	0.37
96	10.90	33.79	3.08	200	9.85	34.42	1.10	26.58	151	0.45
118	11.04	34.12	1.85	250	9.33	34.44	0.84	26.65	145	0.52
154	11.19	34.48	0.86	300	8.82	34.48	0.63	26.76	135	0.59
190	10.00	34.43	1.12	400	7.54	34.35	0.45	26.85	128	0.71
227	9.53	34.42	0.96	500	(6.74)	(34.52)		(27.10)	(105)	(0.81)
304	8.76	34.48	0.60							
383	7.70	34.34	0.47							
470	6.96	34.51	0.34							

130.60

PAOLINA-T; May 13, 1953; 0837 GCT; 25°29.5'N, 115°24'W; sounding, 2350 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 17°.

0	17.28	33.76	5.69	0	17.28	33.76	5.69	24.52	323	0.00
9	17.25	33.78	5.69	10	17.25	33.78	5.69	24.54	341	0.03
24	17.21	33.85	5.64	20	17.24	33.84	5.65	24.59	337	0.07
53	15.87	33.53	5.90	30	17.16	33.85	5.66	24.61	334	0.10
77	14.86	33.37	5.85	50	16.01	33.58	5.89	24.67	330	0.17
105	13.11	33.51	4.84	75	14.95	33.37	5.86	24.75	323	0.25
158	11.03	34.20	2.14	100	13.49	33.44	5.10	25.11	289	0.32
210	10.71	34.56	0.76	150	11.14	34.11	2.47	26.08	198	0.44
269	10.04	34.53	0.45	200	10.78	34.55	0.93	26.48	160	0.53
317	9.48	34.58	0.37	250	10.27	34.54	0.50	26.57	153	0.61
427	8.05	34.50	0.30	300	9.68	34.56	0.39	26.68	143	0.68
533	7.02	34.44	0.21	400	8.40	34.52	0.32	26.86	128	0.80
638	6.13	34.49	0.22	500	7.36	34.45	0.24	26.96	119	0.91
845	4.88	34.52	0.32	600	6.43	34.47	0.22	27.10	106	1.01
1051	4.10	34.58	0.51	700	5.72	34.51	0.24	27.22	95	1.09
1252	3.49	34.61	0.79	800	5.11	34.51	0.29	27.30	88	1.16
				1000	4.27	34.57	0.45	27.44	75	1.26

133.25

PAOLINA-T; May 11, 1953; 0417 GCT; 26°02'N, 112°46.5'W; sounding, 44 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 02°.

0	14.84	33.84	5.40	0	14.84	33.84	5.40	25.13	284	0.00
10	14.76	33.86	5.46	10	14.76	33.86	5.46	25.17	281	0.03
20	14.16	33.93	4.84	20	14.16	33.93	4.84	25.35	264	0.06
30	13.10	33.93	3.28	30	13.10	33.93	3.28	25.56	244	0.08
50	12.19	34.12	1.63	50	12.19	34.12	1.63	25.89	213	0.13

133.30

PAOLINA-T; May 10, 1953; 2223 GCT; 25°57'N, 113°10'W; sounding, 100 fm; wind, 310°, force 3; weather, clear; sea, rough; wire angle, 10°.

0	16.95	33.78	5.96	0	16.95	33.78	5.96	24.61	334	0.00
10	16.84	33.93	5.95	10	16.84	33.93	5.95	24.75	320	0.03
25	16.36	33.78	5.90	20	16.60	33.87	5.93	24.76	320	0.06
50	13.04	33.55	4.86	30	16.05	33.72	5.86	24.77	320	0.10
74	12.29	33.88	3.01	50	13.04	33.55	4.86	25.28	272	0.16
99	12.26	34.30	0.91	75	12.30	33.90	2.95	25.70	232	0.22
123	11.90	34.56	0.63	100	12.25	34.31	0.90	26.02	202	0.27
153	11.69	34.60	0.38	150	11.72	34.59	0.40	26.34	173	0.36

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^{-5} \text{cm}^3/\text{g}$	dyn. m

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PAOLINA-T; May 10, 1953; 1529 GCT; 25°39.5'N, 113°49'W; sounding, 2000 fm; wind, 310°, force 6; weather, clear; sea, very rough; wire angle, 22°.

13340

0	16.0	33.54	5.77	0	16.0	33.54	5.77	24.65	331	0.00
9	15.99	33.58	5.61	10	15.98	33.58	5.62	24.68	328	0.03
19	16.00	33.59	5.77	20	16.00	33.59	5.77	24.68	328	0.07
33	15.88	-	5.66	30	15.92	33.58	5.71	24.69	327	0.10
51	14.02	33.48	5.59	50	14.25	33.48	5.60	24.98	300	0.16
65	13.01	33.56	4.38	75	11.81	33.57	4.33	25.54	248	0.23
79	11.62	33.58	4.29	100	10.58	33.77	3.29	25.91	212	0.29
103	10.50	33.83	3.14	150	10.43	34.37	1.92	26.41	167	0.38
126	10.25	34.00	2.76	200	10.38	34.58	0.70	26.58	151	0.46
154	10.44	34.40	1.77	250	10.14	34.65	0.31	26.67	144	0.53
206	10.38	34.59	0.62	300	9.30	34.55	0.27	26.74	138	0.59
261	10.03	34.65	0.27	400	7.96	34.47	0.30	26.88	124	0.71
309	9.18	34.52	0.28	500	6.87	34.48	0.30	27.05	110	0.82
417	7.76	34.47	0.30	600	6.14	34.50	0.24	27.16	100	0.91
524	6.66	34.48	0.29							
633	5.93	34.51	0.21							

PAOLINA-T; May 10, 1953; 0728 GCT; 25°17'N, 114°26'W; sounding, 2390 fm; wind, 310°, force 6; weather, clear; sea, very rough; wire angle, 35°.

13350

0	16.4	-	-	0	16.4	(33.63)	(5.75)	(24.62)	(330)	(0.00)
8	16.39	33.63	5.75	10	16.40	33.63	5.77	24.62	333	0.03
17	16.40	33.61	5.82	20	16.41	33.61	5.83	24.61	335	0.07
29	16.46	33.67	5.80	30	16.47	33.67	5.80	24.64	332	0.10
45	16.76	33.80	5.76	50	16.76	33.90	5.94	24.75	322	0.16
58	16.78	33.91	6.11	75	15.52	33.75	5.42	24.91	307	0.24
70	15.91	33.78	5.59	100	13.20	33.48	5.00	25.20	281	0.32
91	14.18	33.66	5.10	150	10.99	34.21	2.00	26.18	188	0.43
112	11.87	33.41	4.86	200	10.78	34.50	0.84	26.45	164	0.52
134	10.97	33.87	3.10	250	10.00	34.43	0.62	26.53	157	0.60
176	11.03	34.43	1.05	300	9.36	34.45	0.44	26.65	146	0.67
222	10.40	34.51	0.70	400	8.31	34.47	0.33	26.83	130	0.80
261	9.85	34.42	0.56	500	7.27	34.47	0.28	26.98	116	0.90
353	8.75	34.48	0.32							
446	7.85	34.47	0.33							
542	6.81	34.47	0.21							

PAOLINA-T; May 9, 1953; 2325 GCT; 24°54.5'N, 115°02'W; sounding, 2000+ fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 09°.

13360

0	17.1	-	-	0	17.1	(33.69)	(5.69)	(24.51)	(344)	(0.00)
10	16.98	33.69	5.69	10	16.98	33.69	5.69	24.53	341	0.03
20	16.99	33.69	5.68	20	16.99	33.69	5.68	24.53	343	0.07
35	16.99	33.67	5.78	30	16.99	33.68	5.73	24.52	343	0.10
55	15.91	33.60	5.88	50	16.33	33.62	5.87	24.63	333	0.17
68	14.88	33.56	5.80	75	14.50	33.57	5.70	25.00	299	0.25
83	14.22	33.58	5.53	100	12.62	33.62	4.25	25.42	260	0.32
104	12.34	33.63	3.89	150	11.41	34.22	1.67	26.11	195	0.43
127	11.72	33.99	2.37	200	11.24	34.65	0.55	26.48	161	0.52
155	11.38	34.27	1.51	250	10.54	34.60	0.36	26.57	154	0.59
205	11.22	34.65	0.49	300	9.70	34.67	0.32	26.76	136	0.66
260	10.36	34.60	0.34	400	8.27	34.53	0.26	26.88	125	0.78
306	9.58	34.67	0.31	500	7.24	34.46	0.23	26.98	117	0.89
412	8.13	34.52	0.25	600	6.34	34.51	0.24	27.14	102	0.98
515	7.10	34.46	0.22							
621	6.15	34.52	0.23							

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OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ_t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	$10^5 \text{cm}^3/\text{g}$	dyn. m

137.23

PAOLINA-T; May 8, 1953; 0913 GCT; 25°34'N, 112°18.5'W; sounding, 40 fm; wind, 310°, force 2; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	16.35	33.86	6.11	0	16.35	33.86	6.11	24.81	315	0.00
10	15.09	33.86	5.09	10	15.09	33.86	5.09	25.09	288	0.03
20	14.04	33.82	5.23	20	14.04	33.82	5.23	25.29	270	0.06
30	13.78	33.88	4.88	30	13.78	33.88	4.88	25.39	261	0.08
50	12.89	34.23	1.05	50	12.89	34.23	1.05	25.84	218	0.13

137.30

PAOLINA-T; May 8, 1953; 1410, 1435 GCT; 25°18.5'N, 112°45'W; sounding, 250 fm; wind, 310°, force 2; weather, partly cloudy; sea, moderate; wire angle, 20°, 28°.

0	16.28	-	5.79	0	16.28	(33.90)	5.79	(24.86)	(310)	(0.00)
10	16.22	33.90	5.98	10	16.22	33.90	5.98	24.87	310	0.03
24	14.02	33.91	5.03	20	14.90	33.91	5.40	25.17	281	0.06
47	13.59	33.86	3.10	30	13.87	33.91	4.61	25.39	261	0.09
71	12.40	34.09	1.44	50	13.43	33.86	2.85	25.44	257	0.14
94	12.16	34.19	1.22	75	12.35	34.11	1.40	25.85	218	0.20
146	11.60	34.31	0.25	100	12.11	34.21	1.12	25.97	207	0.25
193	11.12	34.60	0.21	150	11.55	34.33	0.24	26.17	189	0.35
240	10.61	34.71	0.14	200	11.05	34.63	0.20	26.50	159	0.43
				250	10.57	34.71	0.14	26.65	146	0.51
282	10.48	34.70	0.14	300	10.43	34.69	0.14	26.66	146	0.58
330	10.40	34.67	0.12							
375	10.29	-	0.13							

137.40

PAOLINA-T; May 8, 1953; 2057 GCT; 25°03'N, 113°21.5'W; sounding, 2100 fm; wind, 340°, force 5; weather, partly cloudy; sea, very rough; wire angle, 30°.

0	18.23	33.98	5.52	0	18.23	33.98	5.52	24.45	349	0.00
9	18.18	33.98	5.54	10	18.17	33.98	5.55	24.47	347	0.04
19	17.70	33.99	5.64	20	17.68	33.99	5.64	24.60	336	0.07
33	17.37	33.96	5.53	30	17.44	33.97	5.55	24.64	332	0.10
52	16.26	33.86	5.66	50	16.48	33.88	5.66	24.80	318	0.17
67	14.43	33.75	4.80	75	13.45	33.77	4.10	25.37	264	0.24
80	13.19	-	3.72	100	12.62	34.14	2.36	25.82	221	0.30
104	12.50	34.14	2.28	150	11.68	34.40	1.15	26.20	186	0.40
126	11.49	34.09	2.12	200	11.36	34.68	0.39	26.48	161	0.49
154	11.69	34.47	0.97	250	10.64	34.66	0.29	26.59	151	0.57
202	11.33	34.68	0.35	300	9.94	34.60	0.26	26.67	145	0.64
257	10.54	34.65	0.29	400	8.33	34.55	0.26	26.89	124	0.78
303	9.89	34.60	0.25	500	7.35	34.47	0.26	26.97	118	0.90
407	8.23	34.54	0.25	600	6.25	34.48	0.24	27.13	103	1.01
507	7.29	34.47	0.24							
608	6.15	34.48	0.23							

OBSERVED				INTERPOLATED				COMPUTED		
Z	T	S	O ₂	Z	T	S	O ₂	σ _t	δ	ΔD
m	°C	‰	ml/L	m	°C	‰	ml/L	g/L	10 ⁻⁵ cm ³ /g	dyn. m

S10
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PAOLINA-T; May 9, 1953; 0340 GCT; 24° 40'N, 114° 02'W; sounding, 2400 fm; wind, 310°, force 5;
weather, partly cloudy; sea, rough; wire angle, 18°.

137.50

0	17.93	33.93	5.43	0	17.93	33.93	5.43	24.49	346	0.00
9	17.95	33.99	5.51	10	17.94	33.99	5.52	24.53	342	0.03
19	17.91	33.97	5.22	20	17.90	33.97	5.22	24.53	342	0.07
33	17.14	33.88	6.68	30	17.25	33.90	6.67	24.63	333	0.10
52	16.90	33.86	5.89	50	16.92	33.87	6.01	24.69	328	0.17
66	16.76	-	5.57	75	15.70	33.73	5.15	24.86	312	0.25
80	14.55	33.72	4.92	100	12.35	33.72	3.91	25.55	247	0.32
104	12.06	33.73	3.73	150	11.16	34.18	2.20	26.13	193	0.43
126	11.45	34.07	2.60	200	10.32	34.37	1.30	26.43	166	0.52
164	11.02	34.24	1.99	250	9.65	34.51	0.65	26.65	145	0.60
205	10.20	34.39	1.20	300	9.28	34.53	0.37	26.73	139	0.67
260	9.56	34.52	0.56	400	8.08	34.54	0.23	26.92	122	0.80
306	9.23	34.53	0.35	500	6.98	34.52	0.22	27.06	108	0.91
413	7.90	34.54	0.23	600	6.21	34.52	0.20	27.17	100	1.02
517	6.84	34.52	0.22							
624	6.04	34.52	0.19							

PAOLINA-T; May 9, 1953; 1215 GCT; 24° 13'N, 114° 36'W; sounding, 2000+ fm; wind, 310°, force 4;
weather, partly cloudy; sea, very rough; wire angle, 12°.

137.60

0	17.28	33.75	5.67	0	17.28	33.75	5.67	24.51	343	0.00
10	17.27	33.76	5.75	10	17.27	33.76	5.75	24.52	343	0.03
20	17.28	33.70	5.69	20	17.28	33.70	5.69	24.47	348	0.07
34	16.89	33.73	5.75	30	17.16	33.72	5.72	24.52	344	0.10
54	14.78	33.59	6.01	50	15.23	33.60	6.01	24.86	312	0.17
68	13.94	33.63	5.35	75	13.76	33.66	5.25	25.22	278	0.24
83	13.66	33.69	5.12	100	12.05	33.74	4.10	25.62	240	0.31
108	11.61	33.76	3.66	150	10.81	34.14	2.18	26.16	190	0.41
132	11.24	34.03	2.39	200	10.12	34.44	1.17	26.51	157	0.50
162	10.59	34.23	2.01	250	9.57	34.49	0.73	26.65	146	0.57
215	9.97	34.48	0.91	300	8.97	34.47	0.61	26.73	138	0.67
321	8.72	34.47	0.57	400	7.85	34.48	0.47	26.91	122	0.76
430	7.54	34.48	0.44	500	6.82	34.45	0.40	27.03	112	0.86
536	6.48	34.43	0.38	600	6.06		0.37			
642	5.84	-	0.38							

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