

CORRECTIONS MADE :  
STATION POSITIONS #5

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

## data report

PHYSICAL AND CHEMICAL DATA  
CCOFI CRUISE 5406  
(MLR 61)  
2-23 June 1954

SIO Reference 59-16  
1 March 1958

UNIVERSITY OF CALIFORNIA  
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5406

(MLR 61)

2-23 June 1954

Sponsored by

Marine Research Committee

SIO Reference 59-16  
1 March 1959

Approved for distribution:

*Roger Revelle*

Roger Revelle, Director

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## INTRODUCTION

The data presented in this report were collected on the sixty-first consecutive cruise of the California Cooperative Oceanic Fisheries Investigations program. The R/V Crest and the R/V Horizon of the Scripps Institution participated in this cruise.

The data are tabulated at observed depths, and the interpolated and computed values are tabulated at standard depths. They are 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. A line is left blank between the observed data of each cast.

## FOOTNOTES

Standard footnotes which appear frequently are "loose bottle cap" and "possible evaporation." To avoid any confusion as to their meaning the following explanation is included.

Laboratory personnel, before titrating the salinity samples, note any possible imperfections in the sealing of the bottles as follows:

Loose bottle cap: The cap is definitely loose so that it could be moved with very little applied pressure. The salinity values obtained from these samples may be usable depending on time and/or conditions of storage.

Possible evaporation: Either the cap was sealed with less than usual pressure, the bottle edge chipped, the rubber washer cracked, or the bale broke on opening, etc.

**NOTES ON THE PROPERTY CURVE**

Use of the above values in interpolation depends upon consistency with other values of salinity and other properties, and these footnotes are supplemented with "falls on property curve" or "does not fall on property curve," depending upon whether the property curve was drawn through the value or not.

In addition to 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.

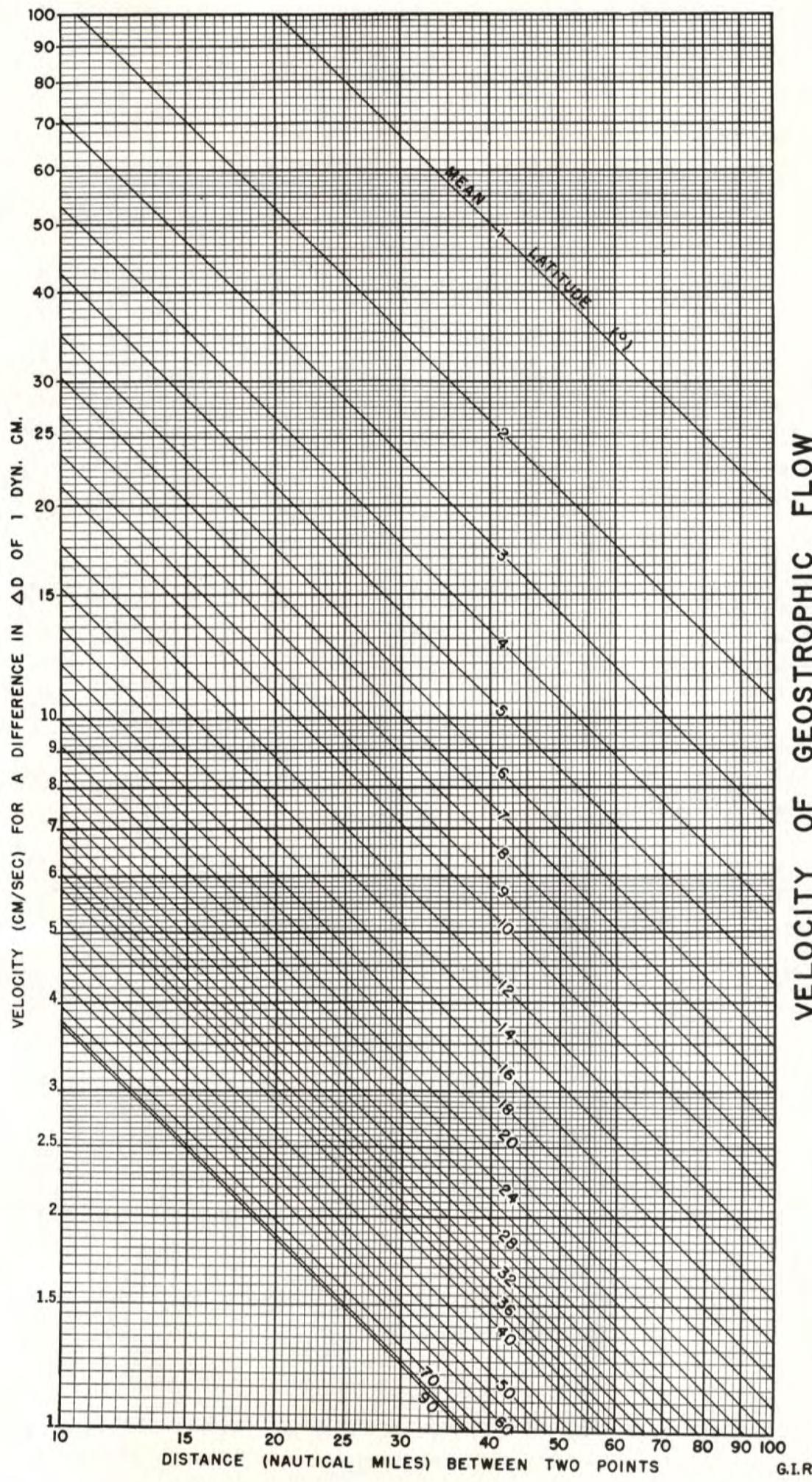
r: rejected value (value seems to be definitely wrong),

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

## FORMAT

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 1954 volume, the first page of the Cruise 5406 data is numbered 169.

VELOCITY OF GEOSTROPHIC FLOW



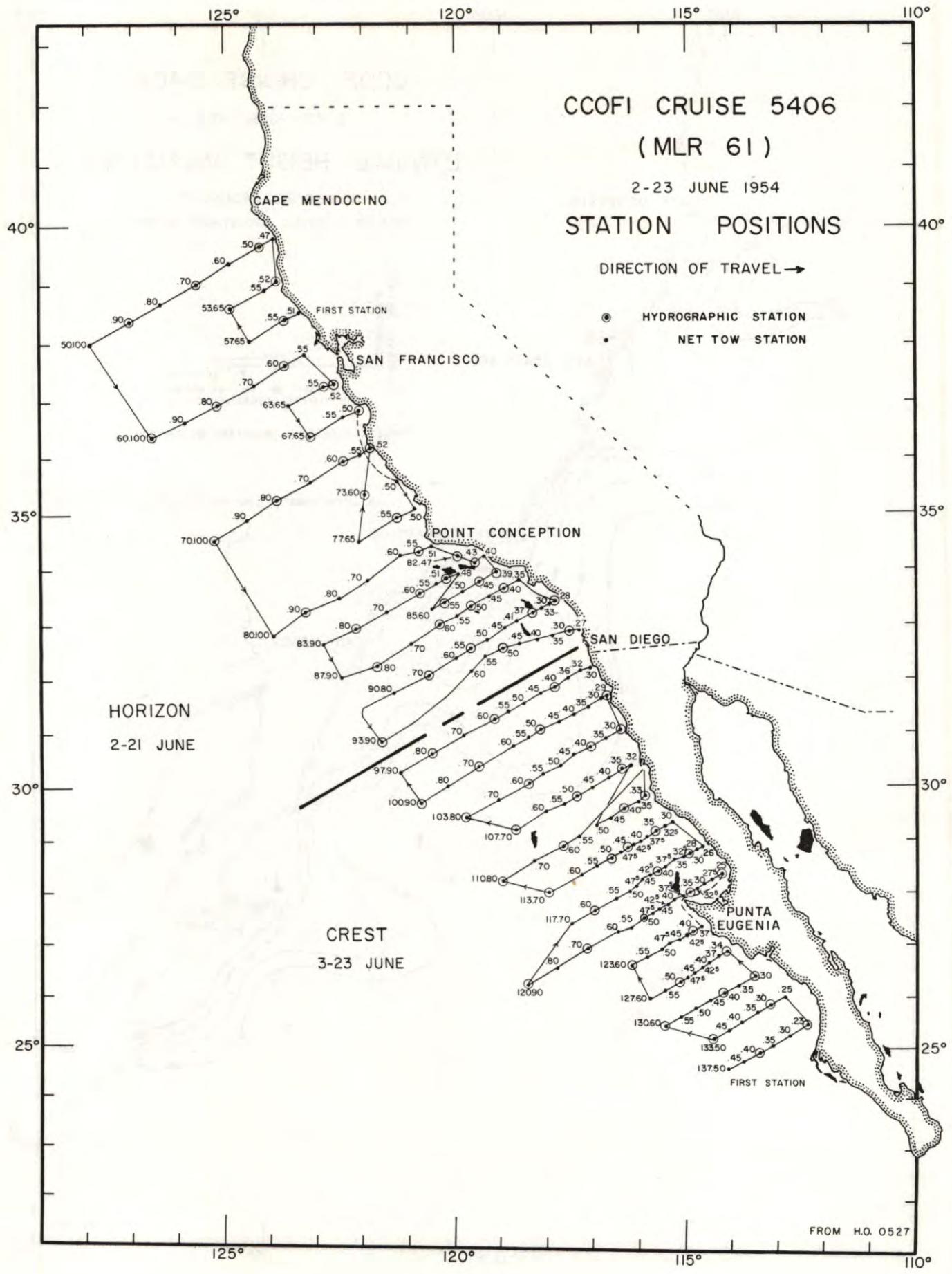


FIGURE 1

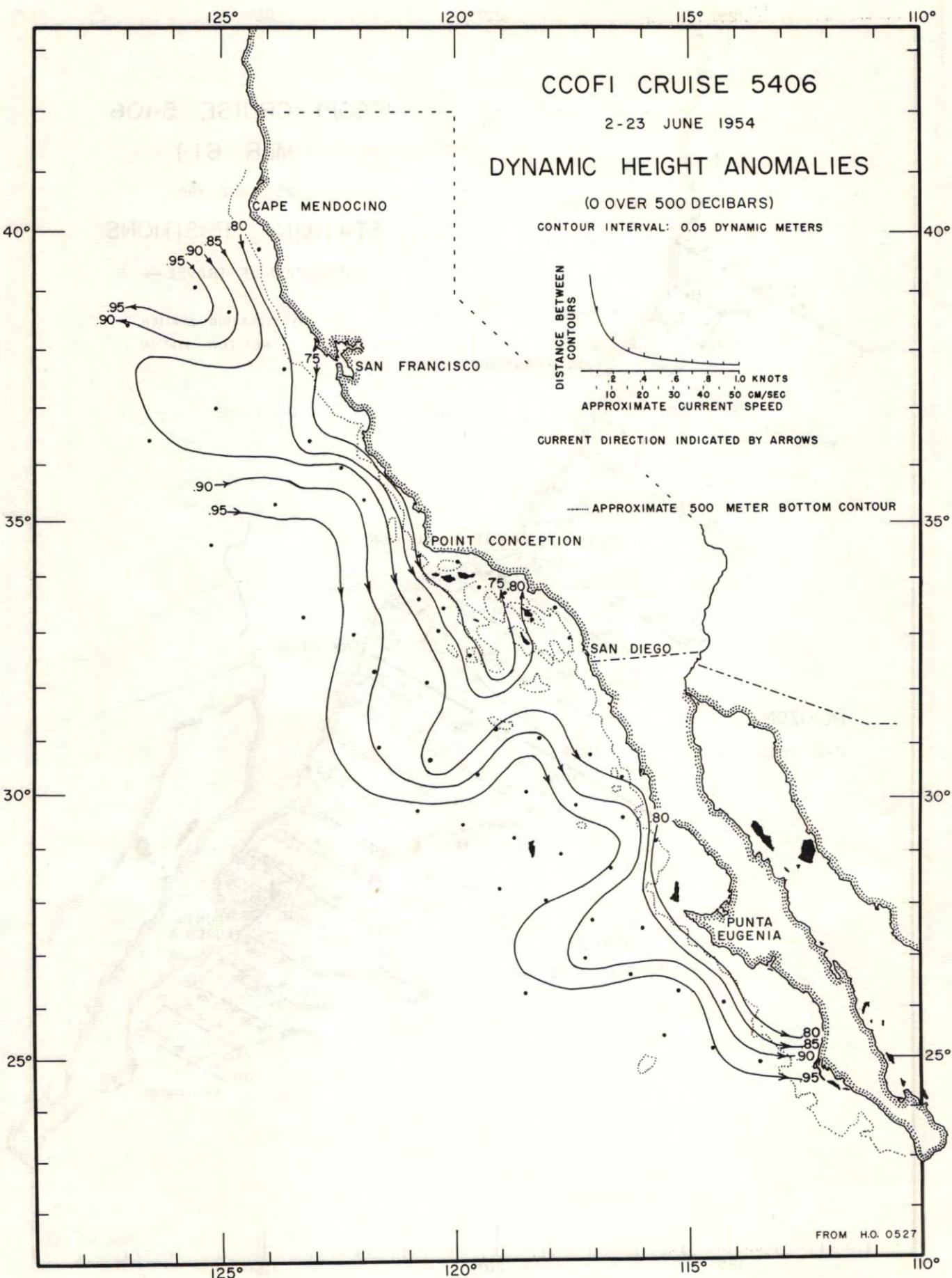


FIGURE 2

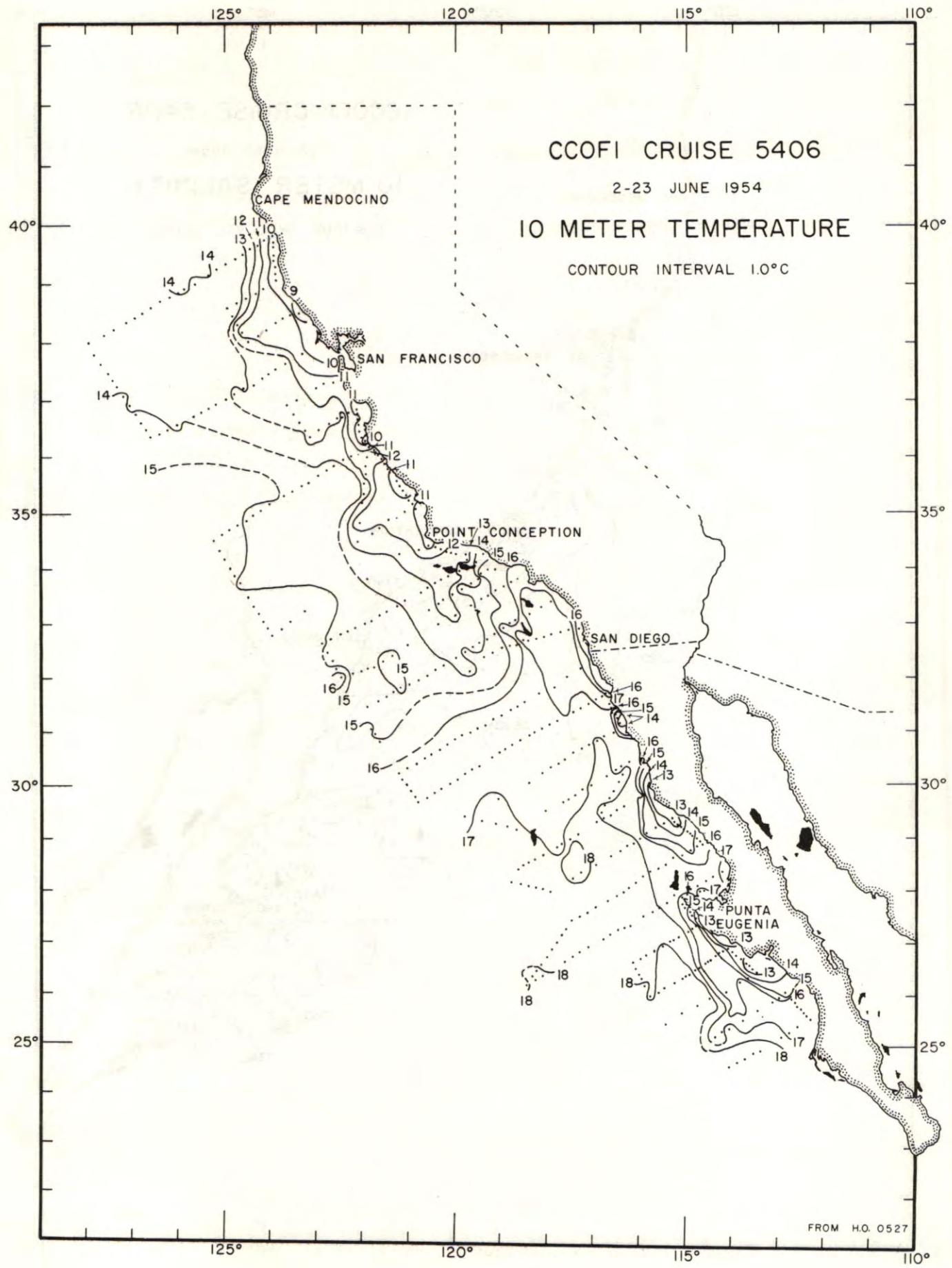


FIGURE 3

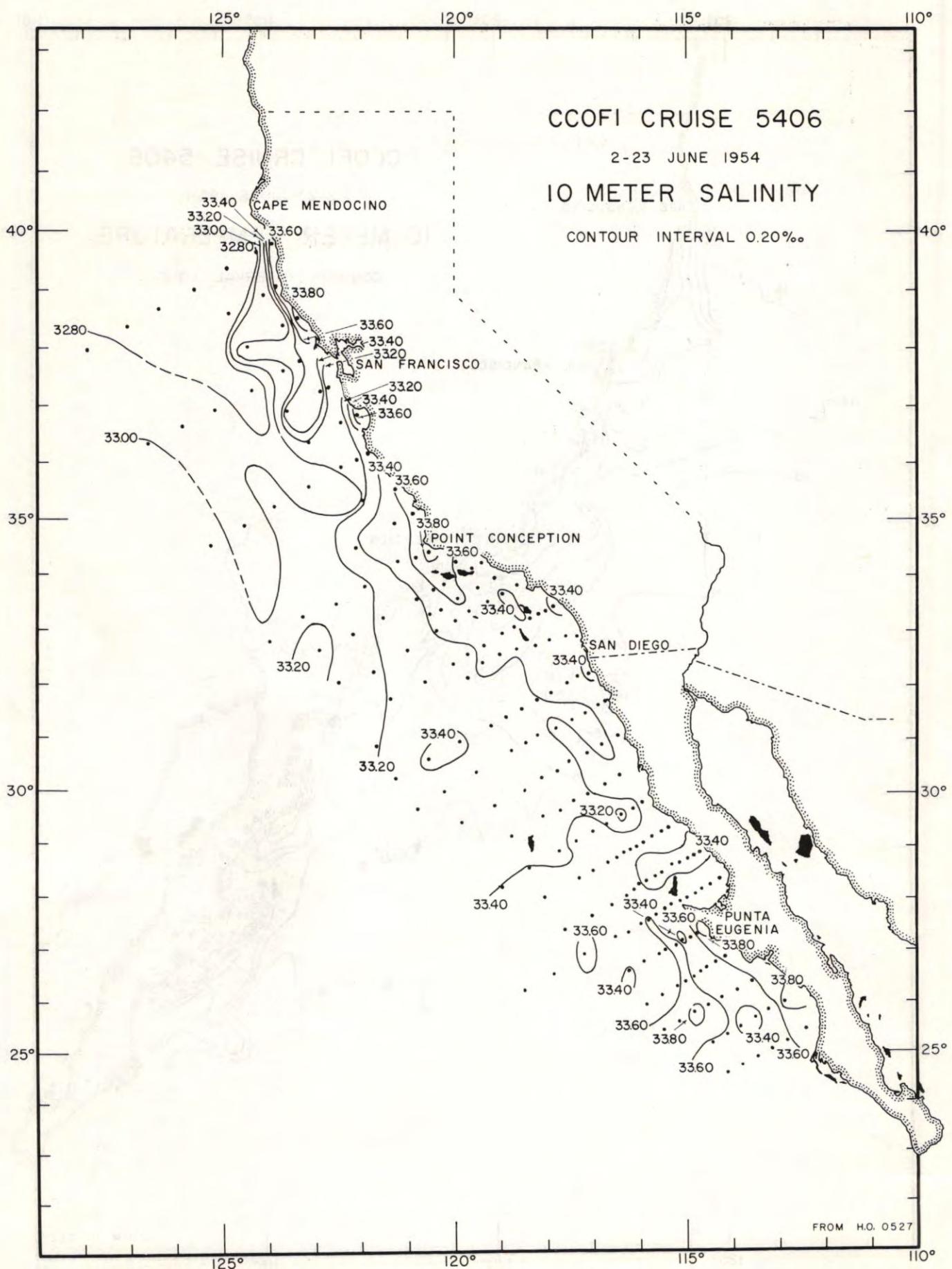


FIGURE 4

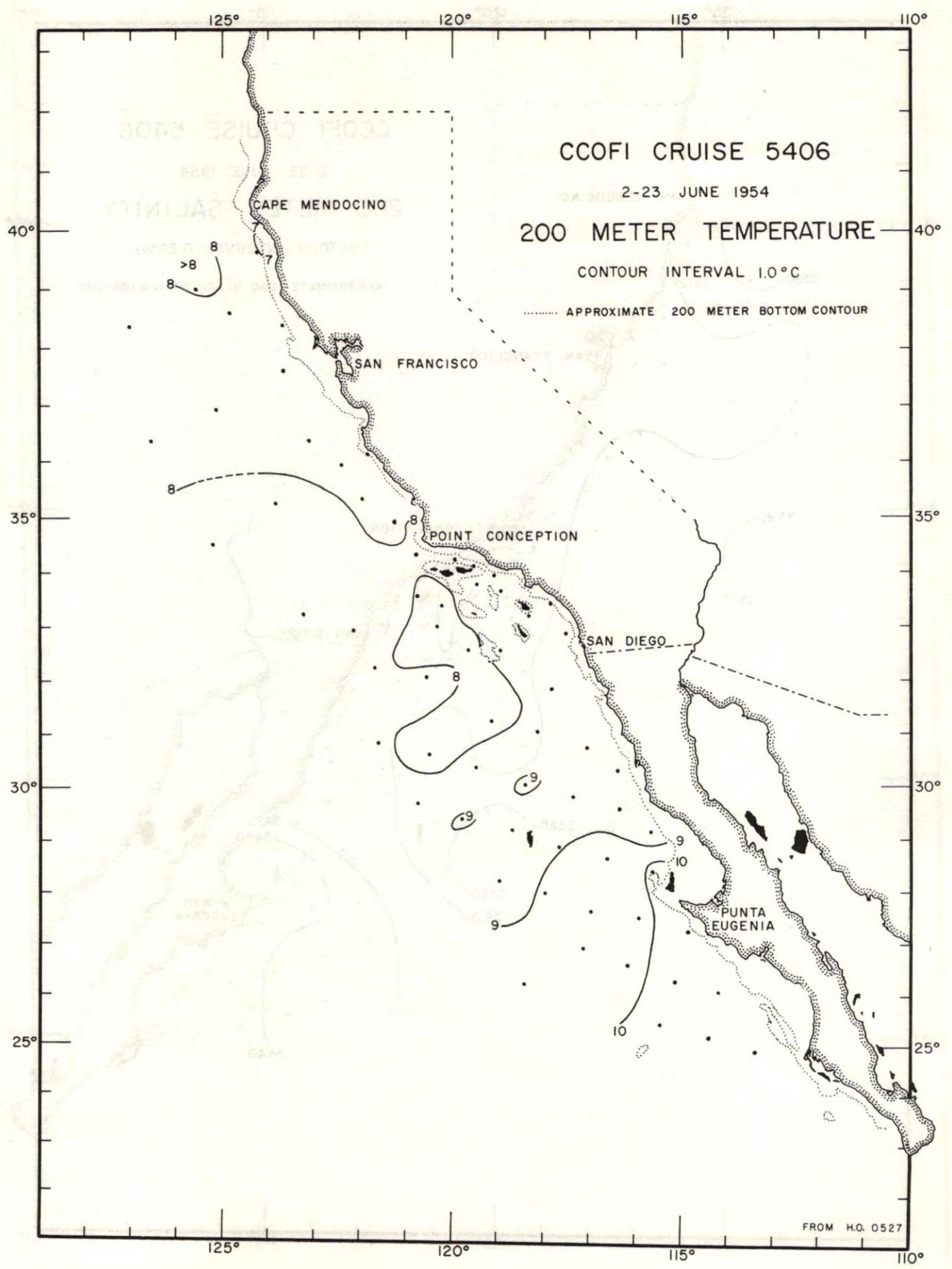


FIGURE 5

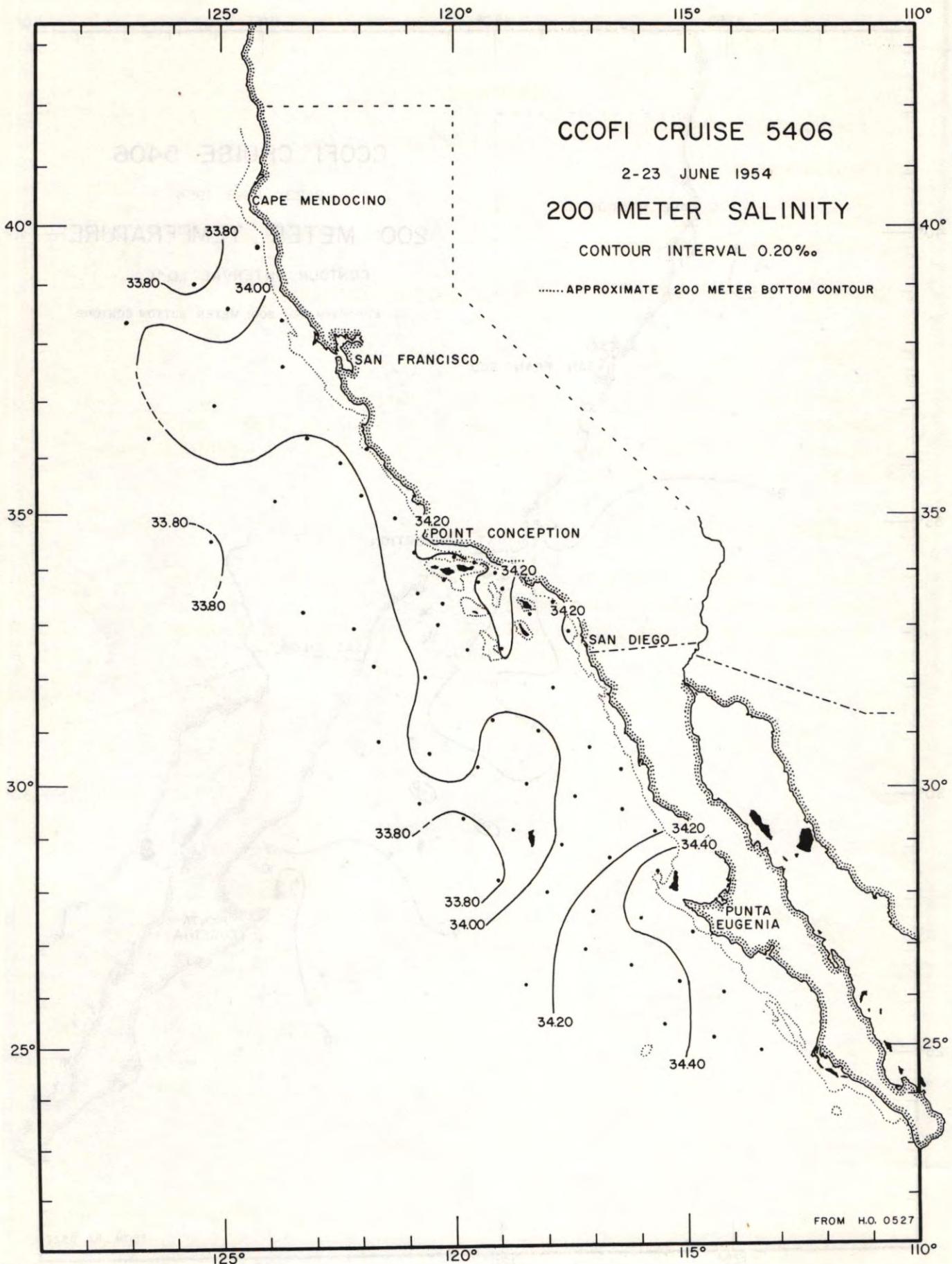


FIGURE 6

## PERSONNEL

### SHIPS' CAPTAINS

Davis, Laurence E., R/V Crest  
Ferris, Noel L., R/V Horizon

### PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

#### R/V Crest

Schwartzlose, Richard A., Senior Marine Technician  
Böhlke, J., Fishery Research Biologist, U. S. Fish and Wildlife Service  
Kramer, David, Fishery Research Biologist, U. S. Fish and Wildlife Service  
Willis, R. S., Marine Technician

#### R/V Horizon

Gilkey, Robert W., Senior Marine Technician  
Linn, Robert J., Marine Technician  
Livingstone, R. L., Jr., Fishery Research Biologist, U. S. Fish and Wildlife Service

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T_3$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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HORIZON; June 5, 1954; 1837 GCT; 39°38.5'N, 124°11.5'W; sounding, 675 fm; wind, 300°, force 2; weather, partly cloudy; sea, rough; wire angle, 15°.

0	12.41	32.64	0	12.41	32.64	24.70	325	0.00
10	10.47	32.73	10	10.47	32.73	25.12	285	0.03
25	10.34	32.99	20	10.37	32.97	25.33	265	0.06
50	9.14	33.07	30	10.01	33.00	25.41	258	0.08
60	8.86	33.26	50	9.14	33.07	25.61	239	0.13
70	8.61	33.29	75	8.58	33.29	25.87	214	0.19
80	8.52	33.30	100	7.94	33.70	26.28	175	0.24
99	7.96	33.69	150	7.49	33.91	26.51	153	0.32
122	7.82	33.81	200	6.93	33.96	26.63	142	0.40
150	7.49	33.91	250	6.44	33.99	26.72	133	0.47
196	6.96	33.96	300	6.07	34.03	26.80	126	0.54
260	6.37	34.00	400	5.73	34.15	26.94	112	0.66
359	5.82	34.09	500	5.46	34.26	27.06	101	0.77
480	5.54	34.25	600	5.07	34.30	27.13	94	0.88
656	4.84	34.33	700	4.68	34.35	27.22	86	0.97
873	4.04	34.42	800	4.30	34.39	27.29	79	1.06
1183	3.35	34.51	1000	3.73	34.46	27.41	68	1.22

50.50

HORIZON; June 6, 1954; 0343 GCT; 39°00.5'N, 125°34'W; sounding, 2100 fm; wind, 320°, force 4; weather, partly cloudy; sea, very rough; wire angle, 12°.

0	13.82	32.91	0	13.82	32.91	24.63	332	0.00
10	13.75	32.87	10	13.75	32.87	24.62	333	0.03
25	13.48	32.85	20	13.52	32.85	24.65	330	0.07
55	13.24	32.87	30	13.44	32.85	24.66	329	0.10
65	13.20	32.86	50	13.26	32.87	24.71	324	0.16
75	13.16	32.89	75	13.16	32.89	24.75	320	0.25
90	11.91	32.82	100	11.38	32.83	25.04	293	0.32
110	11.07	32.92	150	9.28	33.30	25.76	224	0.45
134	9.62	33.15	200	8.20	33.72	26.26	177	0.56
164	9.04	33.42	250	7.34	33.89	26.52	152	0.64
217	7.90	33.82	300	6.73	33.96	26.66	139	0.71
296	6.78	33.95	400	6.12	34.13	26.87	119	0.85
404	6.10	34.13	500	5.26	34.14	26.99	108	0.97
547	4.78	34.15	600	4.36	34.18	27.12	95	1.07
740	3.88	34.31	700	3.96	34.26	27.22	86	1.17
978	3.70	34.49	800	3.80	34.39	27.34	74	1.26
1287	3.05	34.52	1000	3.67	34.49	27.44	65	1.41

50.70

HORIZON; June 6, 1954; 1307 GCT; 38°22'N, 127°07'W; sounding, 2250 fm; wind, 320°, force 4; weather, partly cloudy; sea, rough; wire angle, 13°.

0	13.21	32.74	0	13.21	32.74	24.62	333	0.00
10	13.20	32.72	10	13.20	32.72	24.61	334	0.03
25	12.90	32.71	20	13.08	32.71	24.63	332	0.07
55	12.03	32.76	30	12.76	32.71	24.69	326	0.10
65	11.61	32.81	50	12.24	32.75	24.82	314	0.16
75	11.30	32.81	75	11.30	32.81	25.04	293	0.24
90	10.90	32.94	100	10.23	33.06	25.42	257	0.31
109	9.57	33.21	150	8.64	33.79	26.25	178	0.42
133	8.99	33.63	200	7.82	33.99	26.53	151	0.50
162	8.40	33.87	250	7.21	34.03	26.65	140	0.58
214	7.64	34.01	300	6.76	34.04	26.72	133	0.65
290	6.82	34.04	400	6.23	34.19	26.91	115	0.78
396	6.26	34.18	500	5.61	34.28	27.05	102	0.89
535	5.39	34.29	600	4.97	34.29	27.14	93	1.00
723	4.34	34.31	700	4.42	34.30	27.21	87	1.09
971	3.68	34.42	800	4.10	34.34	27.27	81	1.18
1275	3.06	-	1000	3.61	(34.43)	(27.39)	(70)	(1.35)

50.90

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

53.52

HORIZON; June 5, 1954; 1141 GCT; 39°02.5'N, 123°52'W; sounding, 60 fm; wind,  
300°, force 3; weather, partly cloudy; sea, rough; wire angle, 03°.

0	9.83	33.60	0	9.83	33.60	25.91	210	0.00
11	9.64	33.62	10	9.70	33.61	25.94	207	0.02
18	9.11	33.69	20	8.90	33.72	26.15	187	0.04
20	8.90	33.72	30	8.14	33.78	26.32	171	0.06
24	8.13	33.75	50	8.22	33.89	26.39	164	0.09
30	8.14	33.78						
36	8.22	33.80						
46	8.22	-						
55	8.21	33.91						
65	8.19	33.91						

53.65

HORIZON; June 5, 1954; 0438, 0458 GCT; 38°36'N, 124°51'W; sounding, 2100 fm;  
wind, 270°, force 3; weather, rain; sea, rough; wire angle, 22°, 38°.

0	13.03	32.70	0	13.03	32.70	24.63	332	0.00
10	13.10	32.66	10	13.10	32.66	24.58	337	0.03
30	12.10	32.61	20	13.04	32.62	24.56	339	0.07
44	12.00	32.64	30	12.10	32.61	24.74	321	0.10
53	11.96	32.63	50	11.96	32.63	24.78	318	0.16
63	12.05	32.79	75	11.75	32.81	24.96	300	0.24
72	11.76	32.81	100	10.13	32.86	25.28	270	0.31
81	11.79	32.84	150	8.54	33.40	25.96	205	0.43
94	10.34	32.90	200	7.88	33.94	26.48	156	0.53
103	10.02	32.86	250	7.13	33.96	26.60	145	0.60
123	9.21	33.15	300	6.65	34.02	26.72	133	0.67
150	8.54	33.40	400	5.98	34.09	26.86	120	0.80
200	7.88	33.94	500	5.34	34.16	26.99	108	0.92
220	7.50	33.92						
315	6.52	34.04						
429	5.82	34.11						
556	5.02	34.20						

57.55

HORIZON; June 4, 1954; 1901 GCT; 38°24'N, 123°41'W; sounding, 450 fm; wind,  
240°, force 4; weather, overcast; sea, rough; wire angle, 05°.

0	10.63	33.14	0	10.63	33.14	25.41	258	0.00
10	10.31	33.12	10	10.31	33.12	25.45	254	0.03
31	9.48	33.30	20	9.68	33.26	25.67	233	0.05
47	9.26	33.31	30	9.50	33.30	25.73	227	0.07
57	9.26	33.39	50	9.26	33.33	25.79	222	0.12
67	9.27	33.44	75	9.10	33.50	25.95	206	0.17
77	9.04	33.55	100	8.72	33.77	26.22	181	0.22
86	8.94	33.70	150	8.27	33.94	26.42	162	0.31
101	8.70	33.77	200	7.73	34.03	26.57	148	0.39
110	8.62	33.82	250	7.34	34.07	26.66	139	0.46
135	8.45	33.90	300	7.01	34.10	26.73	132	0.53
164	8.12	33.98	400	6.26	34.14	26.86	120	0.66
217	7.58	34.04	500	5.75	34.26	27.02	105	0.78
280	7.18	34.09	600	5.27	34.29	27.10	97	0.89
392	6.30	34.14						
522	5.64	34.27						
661	4.94	34.31						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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HORIZON; June 7, 1954; 2345 GCT; 37°37'N, 123°37'W; sounding, 1700 fm; wind, 300°, force 4; weather, cloudy; sea, rough; wire angle, 36°.

0	12.66	33.06	0	12.66	33.06	24.98	299	0.00
9	12.65	33.01	10	12.64	33.01	24.94	302	0.03
22	12.54	33.06	20	12.56	33.05	24.99	298	0.06
47	11.45	33.17	30	12.32	33.08	25.06	291	0.09
56	11.13	33.26	50	11.33	33.20	25.34	264	0.14
64	11.02	33.33	75	10.96	33.57	25.69	231	0.21
75	10.96	33.57	100	8.93	33.62	26.07	195	0.26
88	9.21	33.58	150	8.34	33.98	26.44	160	0.35
108	8.83	33.72	200	7.66	34.06	26.61	144	0.43
128	8.67	33.88	250	7.12	34.09	26.71	134	0.50
167	8.07	34.02	300	6.66	34.09	26.77	128	0.57
224	7.39	34.08	400	5.73	34.16	26.94	112	0.69
302	6.64	34.09	500	5.15	34.20	27.05	102	0.80
406	5.70	34.16	600	4.73	34.25	27.13	94	0.91
550	4.92	34.22	700	4.38	34.32	27.23	85	1.00
741	4.26	34.36	800	4.12	34.40	27.32	76	1.09
1126	3.68	34.52	1000	3.80	34.49	27.42	67	1.25

60.60

HORIZON; June 7, 1954; 1346 GCT; 36°55.5'N, 125°08.5'W; sounding, 2400 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 16°.

0	13.20	32.90	0	13.20	32.90	24.75	320	0.00
10	13.20	32.91	10	13.20	32.91	24.76	320	0.03
25	12.84	32.94	20	12.92	32.93	24.83	313	0.06
56	10.60	33.13	30	12.76	32.95	24.87	309	0.10
66	9.53	33.32	50	11.83	33.04	25.12	285	0.15
75	9.28	33.44	75	9.28	33.44	25.87	214	0.22
91	9.08	33.60	100	8.96	33.71	26.14	188	0.27
110	8.81	33.78	150	8.37	33.92	26.39	164	0.36
134	8.53	33.86	200	7.67	34.04	26.59	146	0.44
163	8.20	33.97	250	7.07	34.06	26.69	136	0.51
216	7.47	34.05	300	6.60	34.07	26.76	129	0.58
291	6.67	34.07	400	5.90	34.11	26.88	118	0.70
395	5.95	34.11	500	5.20	34.19	27.03	104	0.82
534	5.00	34.22	600	4.67	34.28	27.16	92	0.92
720	4.25	34.54r	700	4.30	34.34	27.25	83	1.02
954	3.78	34.46	800	4.06	34.40	27.32	76	1.10
1267	3.14	34.55	1000	3.68	34.48	27.43	66	1.26

60.80

HORIZON; June 7, 1954; 0439 GCT; 36°20'N, 126°32'W; sounding, 2600 fm; wind, 020°, force 3; weather, partly cloudy; sea, rough; wire angle, 20°.

0	14.58	33.03	0	14.58	33.03	24.57	338	0.00
10	14.58	33.01	10	14.58	33.01	24.55	340	0.03
25	14.46	33.01	20	14.50	33.01	24.57	338	0.07
54	14.13	33.01	30	14.41	33.01	24.59	336	0.10
64	13.94	33.01	50	14.19	33.01	24.63	332	0.17
73	11.28	33.12	75	10.86	33.16	25.39	260	0.24
87	9.79	33.31	100	9.26	33.42	25.86	215	0.30
106	9.07	33.47	150	8.12	33.85	26.37	166	0.40
129	8.52	33.69	200	7.65	33.98	26.55	149	0.48
158	8.00	33.89	250	7.17	34.02	26.65	140	0.55
208	7.60	33.99	300	6.56	34.05	26.75	130	0.62
281	6.80	34.04	400	5.59	34.08	26.90	116	0.75
383	5.70	34.07	500	5.14	34.21	27.06	101	0.86
517	5.09	34.22	600	4.76	34.27	27.15	92	0.97
702	4.40	34.32	700	4.43	34.32	27.22	86	1.06
932	3.78	34.45	800	4.13	34.38	27.30	78	1.15
1241	3.16	34.53	1000	3.62	34.47	27.43	66	1.31

60.00

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Z m	OBSERVED			INTERPOLATED			COMPUTED		
	T °C	S %		Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

63.55

HORIZON; June 9, 1954; 2102 GCT; 37°14'N, 122°49.5'W; sounding, 110 fm; wind, 220°, force 4; weather, cloudy; sea, rough; wire angle, 09°.

0	11.53	33.41	0	11.53	33.41	25.46	253	0.00
10	11.20	33.42	10	11.20	33.42	25.53	246	0.02
21	10.75	33.42	20	10.77	33.42	25.61	239	0.05
31	10.43	33.46	30	10.44	33.46	25.70	230	0.07
41	10.33	33.48	50	10.24	33.43	25.71	229	0.12
51	10.22	33.43	75	9.69	33.53	25.88	213	0.18
77	9.65	33.54	100	9.18	33.61	26.02	200	0.23
102	9.16	33.62	150	8.56	33.88	26.33	170	0.32
128	8.78	33.75						
154	8.52	33.90						

67.50

HORIZON; June 10, 1954; 1240 GCT; 36°49.5'N, 122°05'W; sounding, 75 fm; wind, 320°, force 2; weather, partly cloudy; sea, rough; wire angle, 03°.

0	10.56	33.71	0	10.56	33.71	25.87	214	0.00
10	10.34	33.69	10	10.34	33.69	25.89	212	0.02
21	10.27	33.69	20	10.26	33.69	25.91	210	0.04
31	9.76	33.66	30	9.81	33.66	25.96	205	0.06
41	9.30	33.74	50	9.10	33.76	26.15	187	0.10
52	9.06	33.76	75	8.73	33.85	26.28	175	0.15
77	8.70	33.86	100	8.48	33.92	26.37	166	0.19
103	8.46	33.93						

67.65

HORIZON; June 10, 1954; 0557 GCT; 36°20.5'N, 123°06.5'W; sounding, 1750 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 15°.

0	12.96	33.19	0	12.96	33.19	25.02	295	0.00
10	12.88	33.18	10	12.88	33.18	25.03	294	0.03
32	11.96	33.18	20	12.66	33.18	25.07	290	0.06
47	11.15	33.31	30	12.05	33.18	25.19	279	0.09
57	9.83	33.30	50	10.82	33.31	25.51	248	0.14
67	9.54	33.53	75	9.00	33.67	26.10	192	0.20
77	8.90	33.68	100	8.38	33.77	26.27	176	0.24
87	8.73	33.69	150	7.94	33.96	26.49	155	0.32
102	8.36	33.77	200	7.32	33.99	26.60	145	0.40
111	8.28	33.76	250	6.64	34.00	26.70	135	0.47
135	8.06	33.93	300	6.27	34.03	26.77	128	0.54
164	7.80	33.98	400	5.72	34.12	26.91	115	0.67
217	7.08	33.99	500	5.07	34.21	27.06	101	0.78
279	6.42	34.01	600	4.74	34.32	27.19	89	0.88
391	5.76	34.11						
519	4.98	34.23						
654	4.62	34.38						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T_3$ $10^5 \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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HORIZON; June 11, 1954; 2225 GCT; 36°08.5'N, 121°50'W; sounding, 355 fm; wind, 320°, force 6; weather, partly cloudy; sea, rough; wire angle, 32°.

70.52

0	11.3	33.26	0	11.3	33.26	25.39	260	0.00
10	11.23	33.28	10	11.23	33.28	25.42	257	0.03
27	9.88	33.58	20	10.50	33.44	25.67	233	0.05
36	9.13	33.53	30	9.58	33.58	25.93	208	0.07
45	8.96	33.58	50	8.89	33.59	26.05	197	0.11
54	8.84	33.60	75	8.58	33.70	26.19	184	0.16
63	8.75	33.61	100	8.53	33.84	26.30	173	0.21
71	8.58	33.70	150	8.14	34.01	26.50	154	0.29
80	8.57	33.69	200	7.83	34.11	26.62	143	0.36
89	8.58	33.82	250	7.52	34.06	26.63	142	0.44
110	8.46	33.86	300	7.00	34.10	26.73	132	0.51
137	8.23	33.93	400	6.31	34.20	26.90	116	0.64
181	7.93	34.13	500	5.78	34.24	27.00	107	0.75
227	7.71	34.05						
332	6.72	34.13						
438	6.10	34.22						
541	5.61	34.25						

HORIZON; June 12, 1954; 0301 GCT; 35°54.5'N, 122°22.5'W; sounding, 1750 fm; wind, 300°, force 6; weather, overcast; sea, rough; wire angle, 10°.

70.60

0	13.6	33.15	0	13.6	33.15	24.85	311	0.00
10	13.84	33.03	10	13.84	33.03	24.72	323	0.03
25	13.66	33.04	20	13.73	33.04	24.75	320	0.06
56	13.28	33.08	30	13.62	33.04	24.77	319	0.10
66	12.72	33.15	50	13.44	33.07	24.83	313	0.16
77	10.40	33.08	75	11.20	33.08	25.27	271	0.23
91	9.46	33.33	100	9.13	33.44	25.90	211	0.29
111	8.90	33.53	150	8.38	33.83	26.32	171	0.39
136	8.50	33.78	200	7.79	33.95	26.50	154	0.47
165	8.25	33.87	250	7.24	34.04	26.65	140	0.55
217	7.56	33.99	300	6.90	34.10	26.75	130	0.62
293	6.94	34.09	400	5.81	34.16	26.93	113	0.74
399	5.84	34.16	500	5.36	34.21	27.03	104	0.86
537	5.24	34.23	600	5.01	34.29	27.13	94	0.96
725	4.58	34.39	700	4.67	34.37	27.24	84	1.06
962	3.92	34.49	800	4.36	34.43	27.32	76	1.15
1276	3.16	34.55	1000	3.82	34.50	27.43	66	1.31

HORIZON; June 12, 1954; 1209, 1237 GCT; 35°13'N, 123°48'W; sounding, 2200 fm; wind, 300°, force 4; weather, fog; sea, moderate; wire angle, 17°, 23°.

70.80

0	15.11	33.04	0	15.11	33.04	24.46	348	0.00
10	15.14	33.04	10	15.14	33.04	24.45	349	0.04
25	14.76	32.97	20	14.90	33.00	24.47	347	0.07
55	12.05	32.76	30	14.59	32.94	24.49	345	0.10
65	12.20	32.84	50	13.03	32.77	24.68	327	0.17
76	12.23	32.97	75	12.24	32.96	24.98	299	0.25
90	11.26	33.09	100	10.08	33.17	25.53	246	0.32
110	9.56	33.26	150	8.74	33.68	26.15	187	0.43
134	8.83	33.53	200	8.28	33.92	26.41	163	0.52
163	8.71	33.76	250	7.56	33.98	26.56	148	0.60
215	8.07	33.96	300	7.05	33.99	26.64	141	0.67
			400	6.41	34.01	26.74	131	0.81
285	7.18	33.99	500	5.41	34.12	26.95	111	0.94
486	5.86	34.04	600	4.86	34.25	27.12	95	1.05
520	5.20	34.18	700	4.56	34.30	27.19	89	1.15
701	4.56	34.31	800	4.26	34.36	27.27	81	1.24
932	3.91	34.43	1000	3.75	34.46	27.40	69	1.40
1243	3.26	34.55						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_{T^3}$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

70.100

HORIZON; June 12, 1954; 2133 GCT; 34° 31.5'N, 125° 10'W; sounding, 2450 fm; wind, 340°, force 3; weather, cloudy; sea, rough; wire angle, 18°.

0	15.83	33.20	0	15.83	33.20	24.42	352	0.00
10	15.80	33.19	10	15.80	33.19	24.42	352	0.04
25	15.66	33.13	20	15.74	33.14	24.40	354	0.07
54	14.98	33.19	30	15.53	33.14	24.44	350	0.11
64	14.23	33.08	50	15.09	33.19	24.58	337	0.18
74	13.40	33.06	75	13.34	33.06	24.84	312	0.26
88	13.05	33.04	100	12.64	33.10	25.01	296	0.33
107	11.76	33.15	150	9.62	33.29	25.70	230	0.46
131	10.38	33.17	200	8.36	33.76	26.27	176	0.57
159	9.32	33.39	250	7.66	33.90	26.48	156	0.65
209	8.21	33.80	300	7.24	34.03	26.64	141	0.73
284	7.36	33.99	400	6.55	34.18	26.86	120	0.86
386	6.68	34.17	500	5.70	34.22	27.00	107	0.98
523	5.54	34.23	600	5.13	34.28	27.11	96	1.09
706	4.72	34.38	700	4.73	34.38	27.24	84	1.19
939	3.90	34.44	800	4.36	34.41	27.30	78	1.28
1248	3.22	34.60	1000	3.72	34.47	27.42	67	1.44

73.60

HORIZON; June 11, 1954; 1542 GCT; 35° 17.5'N, 121° 58'W; sounding, 1300 fm; wind, 340°, force 6; weather, clear; sea, very rough; wire angle, 25°.

0	14.10	32.95	0	14.10	32.95	24.60	335	0.00
10	14.09	32.94	10	14.09	32.94	24.60	335	0.03
29	14.10	32.98	20	14.10	32.97	24.62	333	0.07
43	14.06	32.95	30	14.10	32.98	24.63	332	0.10
57	13.37	32.96	50	13.79	32.95	24.67	328	0.17
66	13.03	32.96	75	12.00	32.94	25.01	296	0.24
76	11.78	32.94	100	9.49	33.27	25.71	229	0.31
90	9.94	33.12	150	8.53	33.76	26.24	179	0.41
99	9.52	33.26	200	7.95	33.92	26.45	159	0.50
112	9.17	33.39	250	7.53	34.09	26.65	140	0.58
140	8.73	33.73	300	7.10	34.15	26.76	129	0.65
167	8.28	33.81	400	6.23	34.18	26.90	116	0.77
222	7.78	34.01	500	5.70	34.28	27.04	103	0.89
287	7.22	34.14	600	5.25	34.34	27.14	93	0.99
401	6.22	34.18	700	(4.82)	(34.38)	(27.23)	(85)	(1.09)
540	5.52	34.31						
691	4.85	34.38						

77.55

HORIZON; June 11, 1954; 0326 GCT; 34° 54.5'N, 121° 13'W; sounding, 310 fm; wind, 320°, force 6; weather, clear; sea, very rough; wire angle, 42°.

0	11.77	33.44	0	11.77	33.44	25.44	255	0.00
10	11.75	33.45	10	11.75	33.45	25.45	254	0.02
25	11.64	33.59	20	11.73	33.55	25.53	246	0.05
33	11.26	33.53	30	11.47	33.59	25.61	239	0.08
40	10.20	33.46	50	9.88	33.53	25.85	216	0.12
48	9.94	33.51	75	8.99	33.74	26.15	187	0.17
56	9.60	33.57	100	8.79	33.86	26.28	175	0.22
64	9.48	33.58	150	8.31	33.97	26.44	160	0.30
71	9.10	33.73	200	7.69	34.11	26.64	141	0.38
79	8.93	33.75	250	7.14	34.13	26.74	131	0.45
93	8.86	33.84	300	6.85	34.14	26.78	128	0.52
111	8.67	33.89	400	6.56	34.24	26.90	116	0.64
123	8.55	33.95						
151	8.30	33.97						
219	7.46	34.13						
294	6.88	34.14						
404	6.56	34.25						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

HORIZON; June 14, 1954; 0722 GCT; 34°20'N, 120°48.5'W; sounding, 440 fm; wind, 320°, force 6; weather, cloudy; sea, high; wire angle, 10°.								
0	11.90	33.66	0	11.90	33.66	25.59	240	0.00
10	11.90	33.66	10	11.90	33.66	25.59	240	0.02
30	11.20	33.77	20	11.82	33.69	25.63	237	0.05
45	10.79	33.70	30	11.20	33.77	25.80	221	0.07
61	9.63	33.82	50	10.53	33.71	25.87	214	0.11
71	9.48	33.86	75	9.42	33.88	26.19	184	0.16
81	9.32	33.94	100	9.15	34.16	26.46	158	0.21
97	9.17	34.16	150	8.82	34.16	26.51	153	0.29
107	9.12	34.16	200	8.49	34.20	26.59	146	0.36
122	8.99	34.14	250	8.05	34.22	26.67	138	0.44
150	8.82	34.16	300	7.79	34.24	26.73	132	0.50
180	8.66	34.18	400	6.94	34.27	26.87	119	0.64
238	8.14	34.22	500	6.14	34.28	26.99	108	0.76
305	7.76	34.24	600	5.54	34.31	27.09	98	0.87
421	6.76	34.27	700	5.14	34.35	27.17	91	0.97
560	5.76	34.30						
700	5.14	34.35						

HORIZON; June 13, 1954; 1358 GCT; 33°14'N, 123°16'W; sounding, 2300 fm; wind, 320°, force 5; weather, cloudy; sea, high; wire angle, 26°.								
0	15.38	33.19	0	15.38	33.19	24.52	342	0.00
10	15.34	33.17	10	15.34	33.17	24.51	343	0.03
24	15.38	33.18	20	15.38	33.18	24.51	343	0.07
52	15.32	33.16	30	15.38	33.18	24.51	343	0.10
61	15.00	33.15	50	15.33	33.16	24.50	344	0.17
70	14.46	33.11	75	14.05	33.09	24.72	323	0.26
84	13.26	33.08	100	12.04	33.14	25.16	281	0.33
103	11.80	33.17	150	9.46	33.54	25.92	209	0.46
126	10.31	33.28	200	8.62	33.90	26.34	169	0.55
152	9.41	33.58	250	7.99	34.02	26.53	151	0.64
200	8.62	33.90	300	7.30	34.08	26.67	138	0.71
269	7.75	34.05	400	6.26	34.17	26.89	117	0.85
364	6.52	34.14	500	5.75	34.24	27.01	106	0.96
490	5.80	34.23	600	5.32	34.38	27.17	91	1.07
664	5.04	34.42	700	4.88	34.43	27.26	82	1.16
885	4.16	34.45	800	4.46	34.44	27.31	77	1.25
1187	3.42	34.53	1000	3.82	34.48	27.41	68	1.41

HORIZON; June 14, 1954; 1310 GCT; 34°15'N, 119°59'W; sounding, 320 fm; wind, 320°, force 2; weather, overcast; sea, very rough; wire angle, 14°.								
0	14.26	33.51	0	14.26	33.51	25.00	297	0.00
10	12.58	33.57	10	12.58	33.57	25.39	260	0.03
30	10.19	33.71	20	10.73	33.67	25.81	220	0.05
40	9.80	33.77	30	10.19	33.71	25.93	208	0.07
50	9.45	33.89	50	9.45	33.89	26.20	183	0.11
60	9.36	33.91	75	9.22	34.02	26.34	169	0.16
70	9.26	34.04	100	8.98	34.06	26.41	163	0.20
81	9.16	34.01	150	8.67	34.13	26.51	153	0.28
90	9.08	34.04	200	8.12	34.19	26.64	141	0.35
100	8.98	34.06	250	7.67	34.21	26.72	133	0.42
119	8.85	34.06	300	7.33	34.23	26.79	127	0.49
145	8.70	34.13	400	6.76	34.27	26.90	116	0.62
163	8.54	34.14	500	6.42	34.29	26.96	110	0.74
202	8.10	34.19						
280	7.46	34.22						
383	6.84	34.27						
506	6.40	34.29						

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S ‰	Z m	T °C	S ‰	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

83.43

HORIZON; June 14, 1954; 1608 GCT;  $34^\circ 08.5'N$ ,  $119^\circ 34'W$ ; sounding, 130 fm; wind,  $320^\circ$ , force 2; weather, partly cloudy; sea, very rough; wire angle,  $08^\circ$ .

0	14.30	33.68	0	14.30	33.68	25.12	285	0.00
10	13.88	33.57	10	13.88	33.57	25.13	284	0.03
26	12.28	33.64	20	12.66	33.63	25.42	257	0.06
36	11.79	33.58	30	12.07	33.63	25.53	246	0.08
46	11.02	33.59	50	10.72	33.61	25.76	224	0.13
56	10.38	33.66	75	9.66	33.80	26.09	193	0.18
65	10.02	33.70	100	9.31	33.97	26.28	175	0.23
75	9.66	33.80	150	8.86	34.15	26.50	154	0.31
95	9.35	33.95	200	8.51	34.20	26.59	146	0.39
110	9.24	34.00						
140	8.96	34.11						
169	8.70	34.20						
202	8.50	34.20						

83.51

HORIZON; June 15, 1954; 1709 GCT;  $33^\circ 52'N$ ,  $120^\circ 08.5'W$ ; sounding, 63 fm; wind,  $300^\circ$ , force 4; weather, fog; sea, rough; wire angle,  $18^\circ$ .

0	12.72	33.59	0	12.72	33.59	25.38	260	0.00
10	11.62	33.63	10	11.62	33.63	25.62	238	0.02
20	11.30	33.66	20	11.30	33.66	25.70	230	0.05
30	11.01	33.68	30	11.01	33.68	25.77	223	0.07
40	9.98	33.78	50	9.48	33.87	26.18	184	0.11
50	9.48	33.87	75	9.04	34.07	26.40	164	0.16
60	9.17	34.02						
70	9.06	34.07						
80	9.02	34.07						
89	8.92	34.13						

83.60

HORIZON; June 15, 1954; 2152 GCT;  $33^\circ 34'N$ ,  $120^\circ 45'W$ ; sounding, 860 fm; wind,  $320^\circ$ , force 6; weather, partly cloudy; sea, very rough; wire angle,  $14^\circ$ .

0	13.86	33.32	0	13.86	33.32	24.94	302	0.00
10	13.85	33.32	10	13.85	33.32	24.94	302	0.03
30	13.79	33.35	20	13.86	33.34	24.95	301	0.06
45	13.64	33.34	30	13.79	33.35	24.98	299	0.09
55	13.32	33.30	50	13.54	33.32	25.00	297	0.15
65	11.20	33.27	75	11.16	33.33	25.47	252	0.22
75	11.16	33.33	100	9.30	33.64	26.03	199	0.28
85	9.78	33.53	150	8.60	33.95	26.38	166	0.37
100	9.30	33.64	200	7.99	34.04	26.54	150	0.45
110	9.07	33.73	250	7.43	34.12	26.69	136	0.52
134	8.79	33.89	300	7.03	34.24	26.84	122	0.59
163	8.43	33.98	400	6.46	34.38	27.02	105	0.71
217	7.80	34.07	500	5.90	34.28	27.02	105	0.82
280	7.16	34.17	600	5.30	34.30	27.11	96	0.92
393	6.50	34.38						
522	5.74	34.28						
660	5.02	34.33						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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HORIZON; June 16, 1954; 0657 GCT; 32°55.5'N, 122°08'W; sounding, 2350 fm; wind, 320°, force 6; weather, overcast; sea, high; wire angle, 15°.

0	14.53	33.06	0	14.53	33.06	24.60	335	0.00
10	14.54	33.12	10	14.54	33.12	24.64	331	0.03
30	14.36	33.30	20	14.45	33.26	24.77	319	0.07
45	14.24	33.13	30	14.36	33.30	24.82	314	0.10
55	14.20	33.13	50	14.22	33.13	24.72	323	0.16
65	-	33.12	75	13.06	33.07	24.91	305	0.24
75	13.06	33.07	100	10.78	33.11	25.36	262	0.31
85	11.76	32.97	150	10.00	33.68	25.94	207	0.43
100	10.78	33.11	200	8.21	33.94	26.43	161	0.52
109	10.10	33.28	250	7.59	34.04	26.60	145	0.60
133	9.25	33.48	300	7.03	34.09	26.72	133	0.67
160	8.88	33.75	400	6.13	34.18	26.91	115	0.80
211	8.02	33.98	500	5.67	34.26	27.03	104	0.92
271	7.39	34.06	600	5.24	34.32	27.13	94	1.02
381	6.22	34.16						
507	5.65	34.27						
640	5.08	34.34						

34°00'

HORIZON; June 14, 1954; 2022 GCT; 33°60'N, 119°04.5'W; sounding, 280 fm; wind, 240°, force 2; weather, partly cloudy; sea, rough; wire angle, 15°.

0	17.75	33.41	0	17.75	33.41	24.14	379	0.00
10	15.66	33.48	10	15.66	33.48	24.68	327	0.04
25	12.10	33.54	20	13.55	33.54	25.17	280	0.07
35	10.40	33.44	30	11.06	33.51	25.63	237	0.09
45	10.04	33.56	50	9.84	33.62	25.92	209	0.14
55	9.67	33.67	75	9.52	33.95	26.23	180	0.18
65	9.69	33.78	100	9.36	33.91	26.23	180	0.23
75	9.52	33.95	150	9.07	34.15	26.46	158	0.32
94	9.41	33.91	200	8.73	34.21	26.56	148	0.39
109	9.28	33.94						
138	9.14	34.05						
167	8.96	34.22						
201	8.72	34.21						

85.39

HORIZON; June 15, 1954; 0143 GCT; 33°47'N, 119°31'W; sounding, 1030 fm; wind, 320°, force 2; weather, clear; sea, rough; wire angle, 15°.

0	16.78	33.46	0	16.78	33.46	24.41	353	0.00
10	13.22	33.48	10	13.22	33.48	25.19	279	0.03
30	9.73	33.65	20	10.21	33.60	25.84	217	0.06
40	9.58	33.71	30	9.73	33.65	25.96	205	0.08
50	9.44	33.80	50	9.44	33.80	26.13	189	0.12
60	9.44	33.87	75	9.06	33.87	26.25	178	0.16
70	9.08	33.86	100	8.80	34.01	26.40	164	0.21
79	9.04	33.89	150	8.69	34.10	26.48	156	0.29
89	8.92	34.00	200	8.21	34.21	26.64	141	0.36
98	8.80	34.01	250	7.86	34.23	26.71	134	0.43
121	8.80	34.07	300	7.55	34.24	26.76	129	0.50
149	8.70	34.10	400	6.88	34.37	26.96	110	0.63
195	8.25	34.21	500	6.25	34.44	27.10	97	0.74
251	7.86	34.23	600	(5.75)	(34.38)	(27.12)	(95)	(0.84)
350	7.22	34.27						
465	6.46	34.44						
581	5.84	34.38						

85.45

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

85.55

HORIZON; June 15, 1954; 0651 GCT;  $33^\circ 25.5' \text{N}$ ,  $120^\circ 13.5' \text{W}$ ; sounding, 660 fm; wind,  $300^\circ$ , force 6; weather, clear; sea, high; wire angle,  $16^\circ$ .

0	12.70	33.55	0	12.70	33.55	25.35	263	0.00
10	12.70	33.55	10	12.70	33.55	25.35	263	0.03
30	12.68	33.54	20	12.73	33.54	25.34	264	0.05
45	12.03	33.54	30	12.68	33.54	25.35	263	0.08
60	10.04	33.51	50	11.53	33.53	25.56	243	0.13
70	9.63	33.58	75	9.40	33.68	26.04	198	0.19
80	9.22	33.73	100	8.98	33.82	26.22	181	0.23
95	9.04	33.80	150	8.32	34.03	26.49	155	0.32
105	8.91	-	200	7.90	34.14	26.63	142	0.39
120	8.67	33.87	250	7.55	34.17	26.71	134	0.46
149	8.32	34.03	300	7.00	34.22	26.83	123	0.53
178	8.16	34.04	400	6.43	34.23	26.91	115	0.66
190p	8.00	34.13	500	5.97	34.24	26.98	109	0.77
236	7.68	34.16	600	5.53	34.34	27.11	96	0.88
308p	6.94	34.22						
468p	6.12	34.23						
624p	5.45	34.36						

87.40

HORIZON; June 17, 1954; 1714 GCT;  $33^\circ 40.5' \text{N}$ ,  $118^\circ 59' \text{W}$ ; sounding, 465 fm; wind,  $320^\circ$ , force 2; weather, overcast; sea, rough; wire angle,  $10^\circ$ .

0	17.24	33.44	0	17.24	33.44	24.28	365	0.00
10	14.24	33.39	10	14.24	33.39	24.91	305	0.03
30	10.68	33.51	20	11.45	33.43	25.49	250	0.06
40	10.00	33.59	30	10.68	33.51	25.69	231	0.08
50	9.77	33.64	50	9.77	33.64	25.95	206	0.13
60	9.78	33.71	75	9.49	33.86	26.17	185	0.18
70	9.60	33.84	100	9.06	33.92	26.28	175	0.22
80	9.38	33.87	150	8.80	34.09	26.46	158	0.31
90	9.28	33.89	200	8.63	34.22	26.59	146	0.39
100	9.06	33.92	250	8.33	34.27	26.67	138	0.46
125	8.78	33.96	300	7.15	34.27	26.84	122	0.53
154	8.80	34.11	400	6.49	34.28	26.94	112	0.65
201	8.62	34.22	500	6.11	34.32	27.02	105	0.76
258	8.28	34.27	600	5.53	34.38	27.14	93	0.87
320	6.88	34.27						
479	6.24	34.31						
605	5.52	34.38						

87.50

HORIZON; June 17, 1954; 1205 GCT;  $33^\circ 20.5' \text{N}$ ,  $119^\circ 40.5' \text{W}$ ; sounding, 45 fm; wind,  $320^\circ$ , force 5; weather, clear; sea, high; wire angle,  $08^\circ$ .

0	14.01	33.53	0	14.01	33.53	25.07	290	0.00
10	13.73	33.54	10	13.73	33.54	25.14	283	0.03
20	9.92	33.69	20	9.92	33.69	25.96	205	0.05
30	9.39	33.79	30	9.39	33.79	26.13	189	0.07
41	9.17	33.86	50	8.73	33.98	26.38	166	0.11
51	8.70	33.99						
62	8.52	34.02						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S ‰	Z m	T °C	S ‰	$\sigma_t$ g/L	$\delta_{T_3}$ $10^5 \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

HORIZON; June 17, 1954; 0624 GCT; 33°00'N, 120°21.5'W; sounding, 360 fm; wind, 330°, force 6; weather, clear; sea, very high; wire angle, 22°.

0	13.75	33.39	0	13.75	33.39	25.02	295	0.00
10	13.74	33.40	10	13.74	33.40	25.03	294	0.03
30	13.74	33.43	20	13.74	33.41	25.03	294	0.06
44	13.35	33.47	30	13.74	33.43	25.05	292	0.09
53	13.14	33.44	50	13.24	33.46	25.17	280	0.15
63	12.12	33.39	75	10.48	33.45	25.68	232	0.21
73	10.67	33.44	100	9.13	33.62	26.04	198	0.26
82	9.85	33.46	150	8.46	34.01	26.45	159	0.36
96	9.22	33.57	200	7.87	34.13	26.63	142	0.43
106	9.02	33.68	250	7.56	34.21	26.74	131	0.50
129	8.72	33.86	300	7.24	34.24	26.81	125	0.57
156	8.38	34.04	400	6.56	34.25	26.91	115	0.69
207	7.81	34.14	500	5.92	34.28	27.02	105	0.81
265	7.47	34.23	600	5.30	34.37	27.16	92	0.91
373	6.74	34.25						
498	5.93	34.28						
632	5.14	34.40						

HORIZON; June 16, 1954; 2033 GCT; 32°14.5'N, 121°43'W; sounding, 2050 fm; wind, 320°, force 6; weather, partly cloudy; sea, high; wire angle, 20°.

0	15.13	33.19	0	15.13	33.19	24.57	338	0.00
10	15.14	33.13	10	15.14	33.13	24.52	342	0.03
30	15.02	33.16	20	15.10	33.14	24.54	340	0.07
43	14.40	33.17	30	15.02	33.16	24.57	338	0.10
53	12.94	33.16	50	13.27	33.16	24.94	302	0.17
62	12.72	33.22	75	12.43	33.28	25.19	279	0.24
71	12.57	33.28	100	10.12	33.28	25.61	239	0.30
81	12.06	33.26	150	8.66	33.75	26.21	182	0.41
95	10.41	33.28	200	8.02	33.87	26.41	163	0.50
104	9.92	33.28	250	7.54	34.03	26.60	145	0.58
127	8.92	33.57	300	7.09	34.10	26.72	133	0.65
155	8.60	33.77	400	6.40	34.17	26.87	119	0.78
207	7.96	33.89	500	5.94	34.32	27.04	103	0.90
269	7.37	34.07	600	5.43	34.35	27.13	94	1.00
379	6.52	34.14						
507	5.90	34.32						
644	5.23	34.36						

HORIZON; June 18, 1954; 0606 GCT; 33°28'N, 117°47.5'W; sounding, 310 fm; wind, 330°, force 2; weather, clear; sea, moderate; wire angle, 08°.

0	17.78	33.39	0	17.78	33.39	24.11	382	0.00
10	16.56	33.39	10	16.56	33.39	24.40	354	0.04
31	11.60	33.37	20	13.07	33.38	25.15	282	0.07
42	10.89	33.43	30	11.70	33.37	25.40	259	0.10
52	10.24	33.49	50	10.35	33.47	25.72	228	0.14
62	9.96	33.62	75	9.68	33.79	26.08	194	0.20
72	9.75	33.76	100	9.47	33.81	26.13	189	0.25
82	9.58	33.82	150	8.99	33.96	26.33	170	0.34
92	9.52	33.78	200	8.78	34.12	26.48	156	0.42
102	9.46	33.84	250	8.47	34.20	26.60	145	0.50
120	9.14	34.01	300	8.06	34.25	26.70	135	0.57
145	9.01	33.96	400	7.24	34.28	26.84	122	0.70
165	8.91	34.08	500	6.39	34.30	26.97	110	0.83
202	8.78	34.13						
279	8.24	34.23						
382	7.38	34.28						
505	6.36	34.30						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

90.37

HORIZON; June 18, 1954; 1128 GCT;  $33^\circ 11' \text{N}$ ,  $118^\circ 23.5' \text{W}$ ; sounding, 660 fm; wind,  $180^\circ$ , force 2; weather, overcast; sea, rough; wire angle,  $10^\circ$ .

0	17.57	33.41	0	17.57	33.41	24.18	375	0.00
10	17.30	33.40	10	17.30	33.40	24.24	369	0.04
30	11.96	33.33	20	13.36	33.34	25.06	291	0.07
40	10.90	33.35	30	11.96	33.33	25.32	266	0.10
50	10.00	33.51	50	10.00	33.51	25.81	220	0.15
60	9.65	33.48	75	9.51	33.67	26.02	200	0.20
70	9.75	33.65	100	9.17	33.82	26.19	184	0.25
80	9.36	33.69	150	8.51	33.98	26.42	162	0.34
91	9.28	33.74	200	8.03	34.07	26.56	148	0.42
101	9.16	33.84	250	8.14	34.23	26.67	138	0.49
125	9.00	33.95	300	7.97	34.23	26.69	136	0.56
155	8.40	33.98	400	7.08	34.23	26.82	124	0.69
203	8.02	34.10	500	6.13	34.33	27.03	104	0.82
260	8.14	34.23	600	5.70	34.34	27.09	98	0.92
362	7.48	34.22						
480	6.26	34.33						
607	5.69	34.34						

90.55

HORIZON; June 18, 1954; 2100 GCT;  $32^\circ 35' \text{N}$ ,  $119^\circ 37' \text{W}$ ; sounding, 620 fm; wind,  $320^\circ$ , force 5; weather, clear; sea, very rough; wire angle,  $08^\circ$ .

0	13.98	33.35	0	13.98	33.35	24.94	302	0.00
10	13.94	33.34	10	13.94	33.34	24.94	302	0.03
30	13.05	33.32	20	13.60	33.32	24.99	298	0.06
40	11.02	33.27	30	13.05	33.32	25.10	287	0.09
50	10.12	33.46	50	10.12	33.46	25.75	225	0.14
61	9.81	33.54	75	9.60	33.64	25.98	204	0.20
71	9.68	33.63	100	9.16	33.76	26.14	188	0.24
82	9.46	33.66	150	8.46	33.96	26.41	163	0.33
102	9.12	33.78	200	7.89	34.12	26.62	143	0.41
126	8.73	33.90	250	7.50	34.21	26.75	130	0.48
156	8.40	33.97	300	7.14	34.25	26.83	123	0.55
205	7.82	34.13	400	6.40	34.31	26.98	109	0.67
275	7.34	34.23	500	5.89	34.36	27.08	99	0.78
377	6.55	34.30	600	5.56	34.34	27.11	96	0.88
505	5.88	34.36	700	5.25	34.35	27.15	92	0.98
659	5.40	34.34	800	4.72	34.42	27.27	81	1.08
816	4.62	34.43						

90.70

HORIZON; June 19, 1954; 0409 GCT;  $32^\circ 04.5' \text{N}$ ,  $120^\circ 36.5' \text{W}$ ; sounding, 2150 fm; wind,  $320^\circ$ , force 6; weather, clear; sea, high; wire angle,  $10^\circ$ .

0	14.59	33.31	0	14.59	33.31	24.78	318	0.00
10	14.60	33.33	10	14.60	33.33	24.79	317	0.03
25	14.60	33.27	20	14.60	33.28	24.75	320	0.06
55	13.34	33.37	30	14.60	33.28	24.75	320	0.10
65	12.90	33.37	50	13.76	33.36	24.99	298	0.16
75	12.15	33.35	75	12.15	33.35	25.30	268	0.23
90	10.82	33.46	100	10.32	33.47	25.72	228	0.29
110	9.94	33.48	150	8.91	33.85	26.25	178	0.39
136	9.10	33.77	200	8.09	34.01	26.50	154	0.48
165	8.72	33.91	250	7.68	34.10	26.64	141	0.55
219	7.89	34.05	300	7.44	34.16	26.72	133	0.62
298	7.48	34.16	400	6.50	34.23	26.90	116	0.76
406	6.48	34.23	500	5.98	34.31	27.03	104	0.87
549	5.74	34.34	600	5.45	34.36	27.14	93	0.98
742	4.70	34.39	700	4.90	34.38	27.22	86	1.07
983	3.94	34.47	800	4.51	34.41	27.28	80	1.16
1298	3.18	34.56	1000	3.91	34.48	27.40	69	1.33

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_{T_3}$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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HORIZON; June 20, 1954; 2323 GCT; 32°53'N, 117°32'W; sounding, 450 fm; wind, 180°, force 3; weather, overcast; sea, rough; wire angle, 09°.

0	18.4	33.40	0	18.4	33.40	23.97	395	0.00
10	17.78	33.41	10	17.78	33.41	24.13	380	0.04
30	12.09	33.40	20	14.18	33.40	24.93	303	0.07
41	11.52	33.40	30	12.09	33.40	25.35	263	0.10
51	10.56	33.41	50	10.56	33.41	25.64	236	0.15
61	10.52	33.57	75	9.75	33.73	26.02	200	0.21
72	9.90	33.72	100	9.25	33.90	26.24	179	0.25
82	9.54	33.74	150	8.98	34.05	26.40	164	0.34
92	9.37	33.87	200	8.66	34.23	26.59	146	0.42
102	9.22	33.91	250	8.46	34.29	26.67	138	0.49
126	8.99	34.04	300	8.10	34.30	26.73	132	0.56
155	8.98	34.05	400	7.17	34.31	26.87	119	0.69
205	8.64	34.24	500	6.60	34.34	26.97	110	0.82
264	8.42	34.30	600	5.91	34.37	27.09	98	0.93
367	7.40	34.31						
488	6.70	34.33						
616	5.82	34.38						

93.30

HORIZON; June 20, 1954; 1419 GCT; 32°33.5'N, 118°58.5'W; sounding, 602 fm; wind, 320°, force 2; weather, clear; sea, very rough; wire angle, 15°.

0	14.4	33.47	0	14.4	33.47	24.94	302	0.00
10	14.37	33.41	10	14.37	33.41	24.90	306	0.03
30	10.05	33.49	20	10.94	33.43	25.59	240	0.06
46	9.74	33.65	30	10.05	33.49	25.79	222	0.08
56	9.56	33.73	50	9.66	33.68	26.00	202	0.12
65	9.44	33.86	75	9.39	33.91	26.22	181	0.17
75	9.39	33.91	100	9.14	34.06	26.38	166	0.22
85	9.36	33.96	150	8.77	34.16	26.52	152	0.30
100	9.14	34.06	200	8.16	34.21	26.65	140	0.37
110	9.02	34.11	250	7.57	34.25	26.77	128	0.44
133	8.92	34.15	300	7.09	34.26	26.84	122	0.50
162	8.62	34.17	400	6.44	34.26	26.93	113	0.63
214	7.97	34.22	500	5.99	34.34	27.05	102	0.74
275	7.32	34.26	600	5.66	34.33	27.09	98	0.85
385	6.52	34.26						
509	5.96	34.34						
642	5.54	34.33						

93.50

HORIZON; June 19, 1954; 1750 GCT; 30°49'N, 121°34.5'W; sounding, 2410 fm; wind, 320°, force 6; weather, partly cloudy; sea, high; wire angle, 10°.

0	15.3	33.24	0	15.3	33.24	24.57	338	0.00
10	15.17	33.19	10	15.17	33.19	24.56	339	0.03
30	15.16	33.24	20	15.16	33.22	24.59	336	0.07
45	15.12	33.22	30	15.16	33.24	24.60	335	0.10
55	14.74	33.19	50	15.06	33.21	24.60	335	0.17
66	13.06	33.10	75	12.32	33.12	25.09	288	0.25
76	12.25	33.12	100	10.60	33.28	25.53	246	0.31
86	11.40	33.13	150	8.78	33.76	26.20	183	0.42
101	10.54	33.30	200	8.02	33.98	26.49	155	0.51
110	9.98	33.39	250	7.82	34.05	26.58	146	0.58
135	9.04	33.69	300	6.88	34.13	26.77	128	0.66
165	8.54	33.82	400	6.67	34.30	26.93	113	0.78
218	7.78	34.02	500	6.10	34.33	27.03	104	0.90
281	6.98	34.09	600	5.50	34.39	27.15	92	1.00
393	6.70	34.30						
523	5.92	34.34						
659	5.24	34.42						

93.90

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

97.40

CREST; June 22, 1954; 1909 GCT; 31° 51'N, 117° 49.5'W; sounding, 250 fm; wind, 300°, force 3; weather, overcast; sea, moderate; wire angle, 10°.

0	17.5	33.49	0	17.5	33.49	24.26	367	0.00
10	17.22	33.72r	10	17.22	33.49	24.32	361	0.04
15	16.35	33.49	20	15.92	33.48	24.62	333	0.07
20	15.92	33.48	30	12.80	33.35	25.18	280	0.10
25	13.43	33.35	50	10.72	33.47	25.66	234	0.15
30	12.80	33.35	75	9.96	33.67	25.94	207	0.21
40	11.92	33.39	100	9.41	33.84	26.17	185	0.26
50	10.72	33.47	150	8.55	34.03	26.45	159	0.35
65	10.14	33.57	200	8.16	34.15	26.60	145	0.42
79	9.88	33.71	250	8.02	34.29	26.73	132	0.49
99	9.44	-	300	7.78	34.36	26.82	124	0.56
115	9.06	33.91	400	6.81	34.38	26.98	109	0.68
160	8.45	33.12r						
199	8.17	34.15						
250	8.02	34.29						
329	7.57	34.37						
407	6.76	34.38						

97.60

CREST; June 22, 1954; 0920 GCT; 31° 15.5'N, 119° 09'W; sounding, 600 fm; wind, 300°, force 4; weather, overcast; sea, rough; wire angle, 05°.

0	16.8	33.40	0	16.8	33.40	24.35	359	0.00
10	16.30	33.33	10	16.30	33.33	24.42	352	0.04
30	16.19	33.39	20	16.20	33.37	24.47	347	0.07
45	14.52	33.27	30	16.19	33.39	24.49	345	0.10
55	13.12	33.14	50	13.70	33.14	24.83	313	0.17
66	12.43	33.22	75	11.75	33.31	25.34	264	0.24
76	11.70	33.31	100	9.79	33.43	25.78	222	0.30
86	10.40	33.30	150	8.91	33.80	26.21	182	0.41
100	9.79	33.43	200	7.90	33.98	26.51	153	0.49
111	9.42	33.55	250	7.21	34.08	26.69	136	0.57
136	9.20	-	300	6.74	34.15	26.81	125	0.63
166	8.44	33.87	400	6.45	34.24	26.92	114	0.76
219	7.66	34.02	500	5.95	34.35	27.07	100	0.87
283	6.84	34.13						
398	6.46	34.24						
528	5.80	34.36						
564	5.08	34.38						

97.80

CREST; June 21, 1954; 2327 GCT; 30° 35.5'N, 120° 31'W; sounding, 2150 fm; wind, 290°, force 2; weather, overcast; sea, rough; wire angle, 08°.

0	16.6	33.39	0	16.6	33.39	24.39	355	0.00
10	16.38	33.44	10	16.38	33.44	24.48	346	0.04
30	16.30	33.49	20	16.30	33.47	24.52	342	0.07
45	16.28	33.49	30	16.30	33.49	24.54	340	0.10
55	12.97	33.30	50	16.27	33.49	24.54	340	0.18
65	11.38	33.33	75	10.50	33.40	25.64	236	0.26
75	10.50	33.40	100	9.51	33.61	25.97	204	0.30
85	10.06	33.47	150	8.60	34.02	26.43	161	0.39
100	9.51	33.61	200	7.83	34.05	26.57	148	0.47
109	9.26	33.71	250	7.35	34.10	26.68	137	0.54
133	8.90	-	300	6.94	34.18	26.80	126	0.61
162	8.36	34.04	400	6.20	34.24	26.95	111	0.74
214	7.68	34.05	500	5.75	34.33	27.08	99	0.85
277	7.14	34.16	600	5.29	34.37	27.16	92	0.95
387	6.28	34.23						
511	5.69	34.34						
646	5.08	34.38						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

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CREST; June 20, 1954; 0417 GCT; 31°42'N, 116°43.5'W; sounding, 53 fm; wind, 330°, force 2; weather, overcast; sea, slight; wire angle, 00°.

0	16.8	33.51	0	16.8	33.51	24.44	350	0.00
5	16.70	33.57	10	15.76	33.56	24.72	323	0.03
10	15.76	33.56	20	13.24	33.49	25.20	278	0.06
15	13.92	33.46	30	11.60	33.51	25.53	246	0.09
20	13.24	33.49	50	10.04	33.54	25.83	218	0.14
45	10.19	33.53	75	9.60	33.65	25.99	202	0.19
71	9.70	33.63						
81	9.48	33.69						

100.29

CREST; June 20, 1954; 1500, 1531 GCT; 31°04.5'N, 118°07'W; sounding, 970 fm; wind, 260°, force 2; weather, overcast; sea, rough; wire angle, 07°, 09°.

0	16.4	33.50	0	16.4	33.50	24.52	342	0.00
10	16.31	33.33	10	16.31	33.33	24.41	353	0.04
25	16.30	33.31	20	16.30	33.32	24.41	353	0.07
55	13.69	33.16	30	16.30	33.29	24.39	355	0.11
65	12.88	33.12	50	14.32	33.19	24.74	321	0.17
76	12.20	33.16	75	12.28	33.16	25.13	284	0.25
91	10.90	33.12	100	10.59	33.21	25.48	251	0.32
111	10.30	33.42	150	8.70	33.70	26.17	185	0.43
135	9.04	33.58	200	8.18	33.98	26.47	157	0.52
165	8.50	33.86	250	7.71	34.10	26.63	142	0.59
217	7.96	34.03	300	7.24	34.21	26.78	128	0.66
293	7.26	34.22	400	6.70	34.29	26.92	114	0.79
			500	6.08	34.32	27.03	104	0.90
219	8.04	34.08	600	5.49	34.35	27.12	95	1.01
303	7.24	34.20	700	4.98	34.39	27.22	86	1.11
410	6.65	34.29	800	4.60	34.41	27.27	81	1.20
554	5.74	34.34	1000	4.02	34.45	27.37	72	1.37
748	4.79	34.40						
986	4.06	34.45						
1300	3.24	34.58						

100.50

CREST; June 21, 1954; 0229 GCT; 30°21'N, 119°27'W; sounding, 2000+ fm; wind, 300°, force 1; weather, overcast; sea, rough; wire angle, 08°.

0	16.8	33.42	0	16.8	33.42	24.37	357	0.00
10	16.31	33.33	10	16.31	33.33	24.41	353	0.04
25	16.24	33.40	20	16.23	33.39	24.48	346	0.07
55	13.63	33.08	30	16.22	33.35	24.45	349	0.10
65	12.59	33.09	50	14.40	33.09	24.65	330	0.17
75	12.12	33.10	75	12.12	33.10	25.11	286	0.25
89	11.54	33.33	100	11.00	33.39	25.54	245	0.32
109	10.45	33.42	150	9.18	33.80	26.17	185	0.43
134	9.38	-	200	8.28	33.99	26.46	158	0.51
162	9.06	33.88	250	7.43	34.04	26.62	143	0.59
215	7.95	34.01	300	6.90	34.07	26.72	133	0.66
294	6.96	34.06	400	6.11	34.21	26.94	112	0.79
403	6.10	34.21	500	5.60	34.28	27.06	101	0.90
545	5.41	34.31	600	5.21	34.35	27.16	92	1.00
737	4.76	34.43	700	4.87	34.41	27.24	84	1.10
974	4.06	34.53	800	4.55	34.47	27.33	75	1.19
1281	3.30	34.56	1000	3.99	34.53	27.44	65	1.35

100.70

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S ‰	Z m	T °C	S ‰	$\sigma_t$ g/L	$\delta_{T_3}$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

100.90

CREST; June 21, 1954; 1234 GCT; 29°40.5'N, 120°47'W; sounding, 2200 fm; wind, 220°, force 2; weather, overcast; sea, rough; wire angle, 16°.

0	16.1	33.30	0	16.1	33.30	24.44	350	0.00
10	16.04	33.30	10	16.04	33.30	24.45	349	0.04
25	15.96	33.29	20	16.00	33.29	24.45	349	0.07
54	15.08	33.18	30	15.89	33.27	24.46	348	0.10
63	14.72	33.20	50	15.21	33.19	24.55	340	0.17
74	13.72	33.10	75	13.67	33.09	24.80	316	0.26
87	12.95	33.03	100	11.97	33.07	25.12	285	0.33
106	11.32	33.09	150	9.41	33.23	25.69	231	0.46
130	9.76	-	200	8.60	33.91	26.35	168	0.56
157	9.31	33.25	250	7.85	34.00	26.53	151	0.64
207	8.50	33.94	300	7.20	34.05	26.66	139	0.72
384	6.42	34.13	400	6.30	34.15	26.86	120	0.85
522	5.59	34.30	500	5.70	34.28	27.04	103	0.97
708	4.80	34.38	600	5.22	34.36	27.16	92	1.07
940	4.02	34.35	700	4.81	34.38	27.23	85	1.17
1250	3.24	34.54	800	4.48	34.37	27.26	82	1.26
			1000	3.86	34.36	27.31	77	1.44

103.30

CREST; June 19, 1954; 2309 GCT; 31°05.5'N, 116°25'W; sounding, 38 fm; wind, 300°, force 3; weather, overcast; sea, rough; wire angle, 02°.

0	15.7	33.44	0	15.7	33.44	24.64	331	0.00
5	15.08	33.47	10	13.37	33.49	25.17	280	0.03
10	13.37	33.49	20	11.28	33.46	25.55	244	0.06
15	11.40	33.45	30	10.40	33.47	25.71	229	0.08
20	11.28	33.46	50	9.76	33.51	25.85	216	0.12
26	10.82	33.48						
36	9.94	33.45						
51	9.74	33.51						
61	9.64	33.55						

103.40

CREST; June 19, 1954; 1755 GCT; 30°45.5'N, 117°05.5'W; sounding, 950 fm; wind, 340°, force 1; weather, cloudy; sea, moderate; wire angle, 01°.

0	16.9	33.49	0	16.9	33.49	24.40	354	0.00
10	16.79	33.49	10	16.79	33.49	24.43	351	0.04
30	16.03	33.55	20	16.68	33.51	24.47	347	0.07
45	13.18	33.32	30	16.03	33.55	24.65	330	0.10
56	11.28	33.22	50	12.17	33.25	25.22	276	0.16
66	11.23	33.47	75	10.86	33.52	25.67	233	0.23
77	10.76	33.53	100	9.99	33.65	25.92	209	0.28
88	10.44	33.60	150	8.39	33.97	26.43	161	0.38
103	9.82	33.66	200	8.12	34.08	26.55	149	0.46
113	9.32	33.83	250	7.93	34.21	26.69	136	0.53
138	8.58	33.93	300	7.41	34.28	26.82	124	0.60
168	8.18	34.02	400	6.80	34.31	26.92	114	0.72
222	8.12	34.13	500	6.11	34.39	27.08	99	0.84
287	7.54	34.27	600	5.51	34.41	27.17	91	0.94
401	6.80	34.31						
531	5.92	34.40						
667	5.20	34.42						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T_3$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 19, 1954; 0722 GCT; 30°04.5'N, 118°24'W; sounding, 1900 fm; wind, 320°, force 4; weather, clear; sea, very rough; wire angle, 15°.

0	16.7	33.21	0	16.7	33.21	24.23	370	0.00
10	16.51	33.27	10	16.51	33.27	24.32	361	0.04
30	16.50	33.28	20	16.50	33.28	24.33	360	0.07
45	16.43	33.35	30	16.50	33.28	24.33	360	0.11
59	14.81	33.30	50	16.21	33.34	24.44	350	0.18
68	13.85	33.13	75	13.58	33.13	24.85	311	0.26
79	13.45	33.13	100	12.77	33.23	25.09	288	0.34
94	12.83	33.09	150	10.39	33.58	25.80	221	0.47
103	12.72	33.26	200	9.43	33.96	26.26	177	0.57
117	11.50	33.28	250	8.89	34.17	26.51	153	0.65
146	10.52	33.55	300	8.25	34.23	26.65	140	0.73
175	9.70	33.78	400	7.20	34.36	26.91	115	0.86
233	9.10	34.14	500	6.46	34.39	27.03	104	0.98
301	8.23	34.23	600	5.80	34.42	27.14	93	1.08
417	7.09	34.37	700	(5.20)	(34.45)	(27.24)	(84)	(1.18)
554	6.10	34.40						
693	5.24	34.45						

CREST; June 18, 1954; 2125 GCT; 29°25.5'N, 119°46'W; sounding, 2000+ fm; wind, 330°, force 5; weather, partly cloudy; sea, very rough; wire angle, 20°.

0	17.0	33.28	0	17.0	33.28	24.22	371	0.00
10	16.86	33.28	10	16.86	33.28	24.25	368	0.04
30	16.80	33.30	20	16.81	33.29	24.27	366	0.07
44	16.79	33.31	30	16.80	33.30	24.28	365	0.11
58	16.10	33.34	50	16.68	33.32	24.32	361	0.18
68	15.79	33.33	75	15.58	33.34	24.59	336	0.27
77	15.56	33.34	100	14.95	33.50	24.85	311	0.35
91	15.76	33.50	150	10.70	33.31	25.53	246	0.49
100	14.95	33.50	200	9.08	33.74	26.14	188	0.60
113	14.06	33.49	250	8.27	33.92	26.41	163	0.69
141	11.54	33.31	300	7.51	33.98	26.57	148	0.77
168	9.70	33.43	400	6.39	34.11	26.82	124	0.91
224	8.68	33.88	500	5.69	34.20	26.98	109	1.04
288	7.70	33.96	600	5.22	34.29	27.11	96	1.14
399	6.40	34.11						
532	5.52	34.22						
667	5.00	34.39						

CREST; June 17, 1954; 1956 GCT; 30°21.5'N, 116°23'W; sounding, 950 fm; wind, 300°, force 3; weather, overcast; sea, rough; wire angle, 12°.

0	16.7	33.42	0	16.7	33.42	24.39	355	0.00
10	16.64	33.43	10	16.64	33.43	24.41	353	0.04
30	15.94	33.39	20	16.24	33.42	24.50	344	0.07
44	13.26	33.12	30	15.94	33.39	24.54	340	0.10
49	13.16	33.24	50	13.11	33.27	25.05	292	0.17
54	12.85	33.33	75	10.74	33.41	25.61	239	0.24
63	12.08	33.40	100	9.55	33.77	26.09	193	0.29
74	10.80	33.41	150	9.08	34.00	26.34	169	0.38
92	9.90	33.63	200	8.30	34.10	26.54	150	0.46
105	9.40	33.82	250	7.83	34.18	26.68	137	0.54
130	9.08	33.94	300	7.41	34.24	26.78	128	0.60
165	9.06	34.03	400	6.75	34.31	26.93	113	0.73
210	8.15	33.49r	500	6.20	34.32	27.01	106	0.85
268	7.70	34.20	600	5.70	34.39	27.13	94	0.95
380	6.86	34.31						
508	6.15	34.32						
644	5.48	34.42						

107.35

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

107.50

CREST; June 18, 1954; 0353 GCT;  $29^\circ 49' \text{N}$ ,  $117^\circ 23' \text{W}$ ; sounding, 1320 fm; wind,  $320^\circ$ , force 4; weather, overcast; sea, rough; wire angle,  $30^\circ$ .

0	16.0	33.34	0	16.0	33.34	24.49	345	0.00
10	15.96	33.37	10	15.96	33.37	24.52	342	0.03
28	15.90	33.39	20	15.91	33.38	24.54	340	0.07
41	15.72	33.36	30	15.88	33.39	24.56	339	0.10
54	14.36	33.21	50	14.99	33.25	24.65	330	0.17
63	12.38	33.17	75	12.20	33.10	25.10	287	0.25
71	12.33	33.09	100	10.45	33.24	25.52	247	0.31
84	11.10	33.19	150	8.78	33.73	26.18	184	0.42
91	10.72	33.20	200	8.65	34.04	26.44	160	0.51
103	10.37	33.26	250	8.42	34.19	26.60	145	0.59
128	9.33	33.47	300	7.93	34.24	26.71	134	0.66
150	8.78	33.73	400	6.90	34.29	26.89	117	0.79
197	8.66	34.03	500	6.19	34.35	27.04	103	0.91
253	8.40	34.20	600	5.63	34.37	27.12	95	1.02
353	7.34	34.26						
474	6.32	34.34						
606	5.62	34.37						

107.70

CREST; June 18, 1954; 1327 GCT;  $29^\circ 11' \text{N}$ ,  $118^\circ 42' \text{W}$ ; sounding, 1750 fm; wind,  $340^\circ$ , force 3; weather, overcast; sea, rough; wire angle,  $16^\circ$ .

0	17.2	33.38	0	17.2	33.38	24.25	368	0.00
10	17.12	33.37	10	17.12	33.37	24.26	367	0.04
30	17.10	33.37	20	17.10	33.37	24.26	367	0.07
45	16.99	33.34	30	17.10	33.37	24.26	367	0.11
60	16.46	33.31	50	16.85	33.33	24.29	364	0.18
69	15.24	33.20	75	14.89	33.19	24.62	333	0.27
80	14.63	33.18	100	13.32	33.18	24.94	302	0.35
94	14.06	-	150	9.67	33.53	25.88	213	0.48
103	12.52	33.18	200	8.75	33.92	26.33	170	0.58
117	10.33	33.18	250	8.32	34.08	26.52	152	0.66
145	9.78	33.48	300	7.98	34.15	26.63	142	0.74
174	9.17	33.74	400	7.05	34.21	26.81	125	0.88
229	8.44	34.04	500	6.33	34.29	26.97	110	1.00
295	8.02	34.14	600	5.70	34.34	27.09	98	1.11
411	6.94	34.22	700	(5.09)	(34.36)	(27.18)	(90)	(1.21)
547	6.03	34.32						
687	5.16	34.36						

110.33

CREST; June 16, 1954; 2355 GCT;  $29^\circ 50.5' \text{N}$ ,  $115^\circ 52.5' \text{W}$ ; sounding, 48 fm; wind,  $270^\circ$ , force 1; weather, overcast; sea, moderate; wire angle,  $00^\circ$ .

0	13.9	33.34	0	13.9	33.34	24.95	301	0.00
5	12.80	33.40	10	12.24	33.43	25.35	263	0.03
10	12.24	33.43	20	11.52	33.52	25.55	244	0.05
15	11.72	33.47	30	10.97	33.54	25.67	233	0.08
20	11.52	33.52	50	10.61	33.56	25.74	226	0.12
45	10.62	33.56	75	10.62	33.59	25.77	223	0.18
71	10.64	33.58						
81	10.58	33.62						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_{T_3}$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 17, 1954; 0358, 0417 GCT; 29°36'N, 116°21'W; sounding, 1180 fm; wind, 320°, force 4; weather, fog; sea, moderate; wire angle, 12°, 12°.

0	16.7	33.18	0	16.7	33.18	24.21	372	0.00
10	16.63	33.18	10	16.63	33.18	24.23	370	0.04
25	16.50	33.30	20	16.52	33.27	24.32	361	0.07
48	14.58	33.07	30	16.48	33.27	24.33	360	0.11
58	13.73	33.18	50	14.35	33.07	24.64	331	0.18
			75	11.52	33.06	25.19	279	0.26
69	12.96	33.11	100	10.20	33.47	25.75	225	0.32
79	10.91	33.05	150	9.21	33.92	26.26	177	0.42
98	10.29	33.42	200	8.84	34.05	26.42	162	0.51
121	9.30	33.68	250	8.34	34.09	26.53	151	0.59
150	9.21	33.92	300	7.92	34.15	26.64	141	0.66
196	8.88	34.04	400	7.15	34.29	26.86	120	0.80
262	8.22	34.10	500	6.30	34.36	27.03	104	0.92
362	7.45	34.25	600	5.74	34.39	27.13	94	1.02
487	6.41	34.35	700	5.28	34.43	27.21	87	1.12
666	5.44	34.41	800	4.80	34.50	27.32	76	1.21
887	4.45	34.52	1000	4.07	34.53	27.43	66	1.37
1196	3.54	34.54						

110.40

CREST; June 16, 1954; 0453 GCT; 28°56.5'N, 117°40'W; sounding, 2000 fm; wind, 320°, force 2; weather, overcast; sea, smooth; wire angle, 10°.

0	16.8	33.22	0	16.8	33.22	24.22	371	0.00
10	16.50	33.24	10	16.50	33.24	24.30	363	0.04
25	16.42	33.30	20	16.43	33.29	24.36	358	0.07
50	14.68	33.08	30	16.40	33.27	24.35	359	0.11
60	14.24	33.14	50	14.68	33.08	24.58	337	0.18
70	14.06	33.22	75	13.82	33.18	24.84	312	0.26
80	13.37	33.13	100	11.51	33.13	25.25	273	0.33
99	11.62	33.13	150	9.71	33.72	26.02	200	0.45
124	10.06	33.42	200	8.92	34.01	26.38	166	0.55
152	9.68	33.75	250	8.40	34.14	26.56	148	0.63
198	8.94	34.01	300	7.95	34.23	26.70	135	0.70
265	8.26	34.17	400	7.10	34.29	26.87	119	0.83
365	7.39	34.30	500	6.34	34.26	26.95	111	0.96
489	6.42	34.26	600	5.69	34.36	27.11	96	1.07
666	5.36	34.41	700	5.20	34.41	27.21	87	1.17
883	4.48	34.42	800	4.79	34.42	27.26	82	1.26
1184	3.62	34.50	1000	4.11	34.45	27.36	73	1.43

110.60

CREST; June 15, 1954; 1901 GCT; 28°14'N, 118°57.5'W; sounding, 2100 fm; wind, 340°, force 1; weather, overcast; sea, rough; wire angle, 02°.

0	17.5	33.32	0	17.5	33.32	24.13	380	0.00
10	17.42	33.40	10	17.42	33.40	24.21	372	0.04
25	17.40	33.38	20	17.40	33.38	24.20	373	0.08
50	17.14	33.38	30	17.36	33.38	24.21	372	0.11
61	16.98	33.35	50	17.14	33.38	24.26	367	0.19
72	14.94	33.22	75	14.63	33.17	24.66	329	0.27
82	14.07	33.14	100	12.18	33.25	25.22	276	0.35
101	12.16	33.26	150	9.70	33.52	25.87	214	0.47
127	10.53	33.31	200	8.72	33.80	26.24	179	0.57
157	9.52	33.58	250	8.43	34.10	26.52	152	0.66
207	8.66	33.84	300	8.06	34.24	26.69	136	0.73
276	8.28	34.21	400	7.10	34.29	26.87	119	0.87
381	7.26	34.28	500	6.32	34.32	27.00	107	0.99
511	6.25	34.32	600	5.58	34.35	27.11	96	1.09
695	5.06	34.38	700	5.02	34.38	27.20	88	1.19
920	4.29	34.51	800	4.65	34.44	27.29	79	1.28
1229	3.40	34.55	1000	4.03	34.52	27.42	67	1.45

110.80

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T \cdot 10^{-5}$ cm <sup>3</sup> /g	ΔD dyn. m

II3.35

CREST; June 14, 1954; 1444 GCT; 29°11'N, 115°38.5'W; sounding, 680 fm; wind, 320°, force 3; weather, overcast; sea, rough; wire angle, 05°.

0	14.5	33.49	0	14.5	33.49	24.94	302	0.00
10	14.40	33.51	10	14.40	33.51	24.97	300	0.03
30	12.26	33.44	20	14.04	33.46	25.01	296	0.06
46	11.46	33.53	30	12.26	33.44	25.35	263	0.09
56	9.98	33.65	50	11.01	33.57	25.68	232	0.14
66	9.56	33.72	75	9.40	33.89	26.21	182	0.19
75	9.40	33.89	100	9.18	33.97	26.30	173	0.23
86	9.26	33.93	150	9.07	34.07	26.40	164	0.32
101	9.18	33.97	200	8.60	34.16	26.54	150	0.40
111	9.18	33.96	250	8.08	34.22	26.67	138	0.47
136	9.12	34.05	300	7.64	34.24	26.75	130	0.54
166	8.97	34.09	400	6.92	34.27	26.88	118	0.67
220	8.36	34.19	500	6.39	34.36	27.02	105	0.79
285	7.78	34.24	600	5.89	34.41	27.12	95	0.90
398	6.94	34.27						
529	6.24	34.38						
663	5.54	34.42						

II3.50

CREST; June 15, 1954; 0032, 0146 GCT; 28°42'N, 116°37'W; sounding, 1900 fm; wind, 300°, force 3; weather, overcast; sea, rough; wire angle, 02°, 02°.

0	17.4	33.47	0	17.4	33.47	24.27	366	0.00
10	17.32	33.49	10	17.32	33.49	24.30	363	0.04
30	17.22	33.49	20	17.28	33.49	24.31	362	0.07
45	16.86	33.42	30	17.22	33.49	24.32	361	0.11
55	16.09	33.31	50	16.51	33.36	24.39	355	0.18
65	15.16	33.44	75	13.73	33.43	25.05	292	0.26
76	13.60	33.43	100	12.05	33.55	25.47	252	0.33
85	12.52	33.32	150	9.80	33.74	26.02	200	0.44
101	12.01	33.57	200	9.42	34.13	26.39	164	0.54
111	11.66	33.64	250	9.20	34.31	26.57	148	0.62
136	10.26	33.66	300	8.80	34.38	26.68	137	0.69
166	9.57	33.90	400	7.52	34.31	26.82	124	0.83
221	9.36	34.21	500	6.30	34.35	27.02	105	0.95
285	8.94	34.38	600	5.80	34.37	27.10	97	1.06
401	7.50	34.31	700	5.26	34.45	27.23	85	1.16
531	6.06	34.34	800	4.79	34.48	27.31	77	1.24
667	5.46	34.40	1000	4.09	34.60	27.48	61	1.40
			1200	3.60	34.57	27.51	58	1.54
478	6.58	34.35	1500	2.92	34.62	27.61	49	1.73
534	6.02	34.34	2000	2.18	34.63	27.68	42	2.01
593	5.82	34.36	2500	(1.84)	(34.68)	(27.75)	(36)	(2.25)
664	5.44	34.45						
738	5.08	34.47						
824	4.69	34.49						
913	4.38	34.51						
1014	4.04	34.60						
1134	3.77	34.54						
1261	3.47	34.59						
1402	3.14	34.60						
1565	2.80	34.63						
1746	2.52	34.65						
1946	2.24	34.63						
2172	2.02	34.65						
2416	1.88	34.67						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 15, 1954; 1218 GCT; 28°02'N, 117°56.5'W; sounding, 1950 fm; wind, 290°, force 4; weather, overcast; sea, rough; wire angle, 05°.								
0	17.5	33.53	0	17.5	33.53	24.29	364	0.00
10	17.46	33.53	10	17.46	33.53	24.30	363	0.04
30	17.34	33.48	20	17.40	33.50	24.29	364	0.07
45	16.52	33.44	30	17.34	33.48	24.29	364	0.11
55	15.16	33.30	50	15.75	33.38	24.58	337	0.18
65	14.70	33.22	75	14.21	33.35	24.89	307	0.26
76	14.15	33.35	100	11.70	33.28	25.33	265	0.33
86	13.34	33.25	150	10.18	33.82	26.02	200	0.45
101	11.68	33.28	200	9.25	34.11	26.40	164	0.54
111	11.48	33.43	250	9.32	34.43	26.64	141	0.62
136	10.52	33.71	300	9.20	34.49	26.71	134	0.69
165	9.83	33.93	400	7.72	34.36	26.84	122	0.82
220	9.16	34.20	500	6.80	34.39	26.99	108	0.95
283	9.44	34.50	600	6.02	34.41	27.11	96	1.06
397	7.75	34.36						
527	6.60	34.40						
663	5.60	34.42						

CREST; June 14, 1954; 0319 GCT; 28°48'N, 114°56.5'W; sounding, 52 fm; wind, 300°, force 4; weather, cloudy; sea, rough; wire angle, 17°.								
0	14.6	33.39	0	14.6	33.39	24.84	312	0.00
5	14.46	33.37	10	14.44	33.37	24.86	310	0.03
10	14.44	33.37	20	14.18	33.42	24.95	301	0.06
15	14.32	33.40	30	13.67	33.41	25.05	292	0.09
20	14.18	33.42	50	10.87	33.28	25.48	251	0.15
25	13.88	33.43						
30	13.67	33.41						
45	11.40	33.28						
55	10.46	33.29						
69	9.90	33.46						

CREST; June 13, 1954; 1106, 1132 GCT; 28°28'N, 115°36'W; sounding, 550 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 02°, 05°.								
0	16.5	33.36	0	16.5	33.36	24.39	355	0.00
10	16.46	33.39	10	16.46	33.39	24.43	351	0.04
15	16.40	33.39	20	16.28	33.40	24.47	347	0.07
20	16.28	33.40	30	16.04	33.41	24.54	340	0.10
25	16.08	33.40	50	13.51	33.19	24.91	305	0.17
30	16.04	33.41	75	11.17	33.32	25.46	252	0.24
40	15.10	33.38	100	9.90	33.64	25.93	208	0.30
51	13.39	33.18	150	10.61	34.27	26.30	173	0.39
66	12.24	33.17	200	10.01	34.51	26.59	146	0.48
81	10.46	33.44	250	9.51	34.42	26.60	145	0.55
100	9.90	33.64	300	9.22	34.46	26.68	137	0.63
125	10.77	34.16	400	8.29	34.42	26.80	126	0.76
165	10.41	34.34						
204	9.96	34.51						
257	9.48	34.42						
331	9.07	34.47						
412	8.08	34.41						

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Z m	OBSERVED		INTERPOLATED			COMPUTED		
	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

117.60

CREST; June 12, 1954; 2037 GCT;  $27^\circ 41' \text{N}$ ,  $116^\circ 58.5' \text{W}$ ; sounding, 1750 fm; wind,  $340^\circ$ , force 4; weather, overcast; sea, rough; wire angle,  $08^\circ$ .

0	17.4	33.48	0	17.4	33.48	24.27	366	0.00
10	17.31	33.53	10	17.31	33.53	24.33	360	0.04
25	16.61	33.36	20	16.87	33.44	24.37	357	0.07
35	15.87	33.25	30	16.31	33.30	24.39	355	0.11
44	14.49	33.13	50	13.53	33.14	24.87	309	0.17
49	13.66	33.14	75	11.58	33.42	25.46	253	0.24
60	12.62	33.12	100	10.10	33.74	25.97	204	0.30
70	12.21	33.32	150	10.07	34.22	26.35	168	0.40
85	10.56	33.59	200	9.50	34.39	26.58	146	0.48
105	10.02	33.78	250	8.99	34.41	26.68	137	0.55
131	9.96	34.02	300	8.58	34.42	26.75	130	0.62
168	10.12	34.34	400	7.55	34.43	26.91	115	0.75
218	9.27	34.40	500	6.49	34.47	27.09	98	0.86
282	8.73	34.42	600	5.81	34.48	27.19	89	0.96
396	7.60	34.43						
525	6.30	34.47						
660	5.53	34.49						

117.60

CREST; June 12, 1954; 2139 GCT;  $27^\circ 41' \text{N}$ ,  $116^\circ 58.5' \text{W}$ ; sounding, 1750 fm; wind,  $340^\circ$ , force 4; weather, overcast; sea, rough; wire angle,  $08^\circ$ .

0	17.5	33.48	0	17.5	33.48	24.25	368	0.00
10	17.36	33.46	10	17.36	33.46	24.27	366	0.04
30	16.25	33.36	20	16.91	33.43	24.35	359	0.07
45	13.66	33.17	30	16.25	33.36	24.45	349	0.11
55	12.48	33.17	50	12.99	33.17	25.00	297	0.17
65	11.58	33.37	75	11.28	33.47	25.56	243	0.24
76	11.22	33.48	100	10.42	33.78	25.95	206	0.30
86	10.50	33.59	150	9.85	34.14	26.33	170	0.39
101	10.40	33.78	200	9.60	34.33	26.52	152	0.48
111	10.04	33.78	250	9.12	34.41	26.66	139	0.55
136	9.90	34.03	300	8.51	34.42	26.76	129	0.62
165	9.79	34.23	400	7.41	34.38	26.89	117	0.75
220	9.44	34.37	500	6.58	34.39	27.02	105	0.87
283	8.73	34.42	600	5.91	34.44	27.14	93	0.97
396	7.45	34.38						
524	6.40	34.40						
661	5.54	34.47						

120.25

CREST; June 9, 1954; 2006 GCT;  $28^\circ 23' \text{N}$ ,  $114^\circ 14.5' \text{W}$ ; sounding, 31 fm; wind,  $290^\circ$ , force 5; weather, clear; sea, rough; wire angle,  $10^\circ$ .

0	17.2	33.55	0	17.2	33.55	24.38	356	0.00
10	17.14	33.55	10	17.14	33.55	24.39	355	0.04
20	14.00	33.36	20	14.00	33.36	24.94	302	0.07
25	12.03	33.22	30	11.48	33.22	25.32	266	0.10
30	11.48	33.22						
35	11.18	33.26						
40	10.75	33.27						
45	10.98	33.37						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S ‰	Z m	T °C	S ‰	$\sigma_t$ g/L	$\delta_{T_3}$ $10^5 \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 10, 1954; 0151 GCT;  $28^\circ 02.5' \text{N}$ ,  $114^\circ 55' \text{W}$ ; sounding, 47 fm; wind,  $320^\circ$ , force 7; weather, clear; sea, very rough; wire angle,  $24^\circ$ .

0	16.4	33.53	0	16.4	33.53	24.55	340	0.00
5	16.36	33.42r	10	16.34	33.53	24.56	339	0.03
10	16.34	33.53	20	16.36	33.52	24.55	340	0.07
15	16.36	33.51	30	15.43	33.51	24.75	320	0.10
20	16.36	33.52	50	10.27	33.39	25.67	233	0.16
24	16.34	33.49						
29	15.72	33.51						
43	11.26	33.26						
52	10.13	33.44						
66	9.78	33.59						

CREST; June 11, 1954; 0919 GCT;  $27^\circ 33' \text{N}$ ,  $115^\circ 52' \text{W}$ ; sounding, 2100 fm; wind,  $320^\circ$ , force 6; weather, clear; sea, very rough; wire angle,  $15^\circ$ .

0	17.4	33.45	0	17.4	33.45	24.25	368	0.00
10	17.32	33.47	10	17.32	33.47	24.29	364	0.04
30	17.28	33.48	20	17.27	33.48	24.31	362	0.07
55	12.66	33.38	30	17.28	33.48	24.30	363	0.11
70	11.24	33.34	50	13.39	33.40	25.10	287	0.18
80	12.00	33.71	75	11.76	33.47	25.47	252	0.24
95	10.70	33.70	100	10.53	33.71	25.87	214	0.30
119	10.18	33.89	150	9.79	34.12	26.32	171	0.40
153	9.74	34.14	200	9.90	34.44	26.55	149	0.48
178	9.46	34.25	250	10.32	34.60	26.60	145	0.56
237	10.40	34.61	300	9.32	34.55	26.73	132	0.63
319	8.96	34.53	400	7.42	34.42	26.92	114	0.76
433	7.06	34.41	500	6.55	34.42	27.04	103	0.87
586	6.02	34.43	600	5.93	34.43	27.13	94	0.98
796	4.92	34.47	700	5.37	34.45	27.22	86	1.08
1045	3.99	34.52	800	4.89	34.47	27.29	79	1.17
1377	3.18	34.58	1000	4.12	34.51	27.41	68	1.33

CREST; June 11, 1954; 1941 GCT;  $26^\circ 56' \text{N}$ ,  $117^\circ 09' \text{W}$ ; sounding, 2100 fm; wind,  $320^\circ$ , force 5; weather, cloudy; sea, very rough; wire angle,  $28^\circ$ .

0	17.6	33.66	0	17.6	33.66	24.36	358	0.00
10	17.52	33.69	10	17.52	33.69	24.41	353	0.04
28	15.45	33.40	20	17.39	33.54	24.32	361	0.07
51	11.32	33.25	30	14.90	33.38	24.77	319	0.10
64	10.88	33.46	50	11.42	33.25	25.36	262	0.16
72	10.53	33.53	75	10.46	33.56	25.77	223	0.22
86	10.27	33.67	100	9.77	33.76	26.04	198	0.28
107	9.69	33.79	150	9.64	34.15	26.37	166	0.37
129	9.90	34.05	200	9.20	34.28	26.54	150	0.45
148	9.68	34.14	250	8.50	34.29	26.66	139	0.52
196	9.24	34.28	300	8.12	34.34	26.76	129	0.60
263	8.34	34.30	400	7.20	34.39	26.93	113	0.72
355	7.72	34.39	500	6.33	34.38	27.04	103	0.84
481	6.48	34.38	600	5.72	34.38	27.12	95	0.94
652	5.41	34.39	700	5.10	34.41	27.22	86	1.04
858	4.26	34.50	800	4.51	34.47	27.33	75	1.13
1147	3.57	34.60	1000	3.85	34.56	27.47	62	1.28

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	OBSERVED			INTERPOLATED			COMPUTED		
	Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

120.90

CREST; June 12, 1954; 0545 GCT; 26°12'N, 118°27'W; sounding, 2200 fm; wind, 340°, force 5; weather, overcast; sea, moderate; wire angle, 14°.

0	17.8	33.43	0	17.80	33.43	24.14	379	0.00
10	17.80	33.47	10	17.80	33.47	24.17	376	0.04
30	17.77	33.42	20	17.79	33.44	24.15	378	0.08
55	16.33	33.40	30	17.77	33.42	24.14	379	0.11
70	15.84	33.49	50	16.60	33.40	24.40	354	0.19
80	15.50	33.48	75	15.68	33.49	24.68	327	0.27
96	14.47	33.45	100	14.19	33.45	24.97	300	0.35
121	12.22	33.49	150	10.25	33.69	25.91	210	0.48
156	10.10	33.76	200	9.69	34.18	26.38	166	0.58
180	9.87	34.11	250	9.31	34.30	26.54	150	0.66
239	9.38	34.27	300	9.02	34.50	26.74	131	0.73
321	8.88	34.52	400	8.17	34.49	26.87	119	0.86
434	7.72	34.48	500	6.85	34.48	27.05	102	0.98
586	6.08	34.48	600	5.96	34.48	27.17	91	1.08
792	4.86	34.53	700	5.32	34.50	27.26	82	1.18
1039	3.88	34.66	800	4.81	34.53	27.35	74	1.26
1370	3.08	34.66	1000	4.00	34.66	27.54	56	1.41

123.40

CREST; June 9, 1954; 0722 GCT; 27°18'N, 114°52'W; sounding, 310 fm; wind, 320°, force 5; weather, clear; sea, rough; wire angle, 45°.

0	15.3	33.42	0	15.3	33.42	24.71	324	0.00
8	15.32	33.42	10	15.32	33.42	24.71	324	0.03
23	12.82	33.30	20	13.27	33.31	25.05	292	0.06
30	11.85	33.38	30	11.85	33.38	25.38	260	0.09
39	10.67	33.33	50	11.79	33.82	25.73	227	0.14
45	11.36	33.70	75	11.26	34.11	26.06	196	0.19
51	11.82	33.85	100	11.20	34.32	26.23	180	0.24
57	11.84	34.02	150	11.04	34.48	26.38	166	0.33
63	11.54	34.02	200	10.73	34.53	26.48	156	0.41
69	11.37	34.08	250	10.20	34.55	26.59	146	0.49
80	11.20	34.13	300	9.54	34.59	26.73	132	0.56
94	11.14	34.26						
105	11.26	34.35						
126	11.16	34.40						
172	10.94	34.52						
234	10.41	34.54						
317	9.31	34.60						

123.60

CREST; June 8, 1954; 1934 GCT; 26°37'N, 116°09.5'W; sounding, 2000 fm; wind, 340°, force 4; weather, cloudy; sea, rough; wire angle, 18°.

0	17.5	33.38	0	17.5	33.38	24.17	376	0.00
10	17.51	33.39	10	17.51	33.39	24.18	375	0.04
25	17.38	33.37	20	17.40	33.37	24.19	374	0.08
34	17.37	33.38	30	17.39	33.38	24.20	373	0.11
43	16.36	33.37	50	15.71	33.34	24.56	339	0.18
48	15.86	33.36	75	13.88	33.25	24.88	308	0.26
56	15.41	33.29	100	12.78	33.64	25.40	259	0.34
66	14.70	33.32	150	11.30	34.15	26.08	194	0.45
80	13.50	33.24	200	9.79	34.24	26.41	163	0.54
97	12.88	33.59	250	8.97	34.31	26.60	145	0.62
119	12.14	33.91	300	8.21	34.31	26.72	133	0.69
154	11.18	34.17	400	7.15	34.35	26.91	115	0.82
198	9.82	34.24	500	6.35	34.40	27.06	101	0.94
256	8.88	34.31	600	5.55	34.40	27.16	92	1.04
360	7.51	34.31						
479	6.52	34.40						
612	5.47	34.40						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta T_3$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 7, 1954; 2109 GCT; 26° 55'N, 114° 06'W; sounding, 44 fm; wind, 280°, force 5; weather, clear; sea, moderate; wire angle, 18°.

0	14.0	33.53	0	14.0	33.53	25.07	290	0.00
10	13.28	33.62	10	13.28	33.62	25.29	269	0.03
15	12.79	33.66	20	12.16	33.66	25.54	245	0.05
20	12.16	33.66	30	11.18	33.82	25.85	216	0.08
25	11.48	33.71	50	11.14	34.11	26.08	194	0.12
30	11.18	33.82						
45	11.16	34.00						
55	11.12	34.20						
69	11.24	34.33						

CREST; June 8, 1954; 0730, 0748 GCT; 26° 22'N, 115° 07.5'W; sounding, 1650 fm; wind, 320°, force 4; weather, clear; sea, rough; wire angle, 18°, 22°.

0	18.1	33.53	0	18.1	33.53	24.14	379	0.00
10	18.04	33.56	10	18.04	33.56	24.18	375	0.04
25	18.02	33.53	20	18.02	33.54	24.17	376	0.08
35	17.99	33.54	30	18.01	33.54	24.17	376	0.11
45	17.45	33.49	50	16.82	33.42	24.37	357	0.19
50	16.82	33.42	75	15.86	33.57	24.70	325	0.27
61	16.50	33.46	100	13.29	33.34	25.07	290	0.35
			150	10.97	33.87	25.92	209	0.48
64	16.46	33.50	200	10.82	34.38	26.34	169	0.57
77	15.68	33.57	250	10.56	34.60	26.56	148	0.65
94	13.64	33.35	300	9.67	34.57	26.69	136	0.73
115	12.62	33.34	400	8.19	34.47	26.85	121	0.86
149	10.98	33.85	500	7.04	34.43	26.99	108	0.98
193	10.84	34.33	600	6.12	34.43	27.11	96	1.10
250	10.56	34.60						
353	8.88	34.52						
473	7.35	34.43						
604	6.09	34.43						

CREST; June 7, 1954; 1617 GCT; 26° 29'N, 113° 29.5'W; sounding, 43 fm; wind, 240°, force 2; weather, clear; sea, moderate; wire angle, 00°.

0	13.4	33.60	0	13.4	33.60	25.25	273	0.00
10	12.93	33.59	10	12.93	33.59	25.34	264	0.03
15	12.74	33.57	20	12.74	33.66	25.43	256	0.05
20	12.74	33.66	30	11.93	33.54	25.49	250	0.08
25	12.38	33.66	50	11.06	33.89	25.92	209	0.12
30	11.93	33.54	75	(11.26)	(34.20)	(26.13)	(189)	(0.18)
45	11.11	33.80						
56	11.04	33.98						
71	11.20	34.16						

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OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S %	Z m	T °C	S %	$\sigma_t$ g/L	$\delta_{T^3}$ $10^{-5} \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

130.40

CREST; June 7, 1954; 0955 GCT; 26°08'N, 114°09.5'W; sounding, 1500 fm; wind, 310°, force 4; weather, clear; sea, rough; wire angle, 30°.

0	15.80	33.45	0	15.8	33.45	24.62	333	0.00
10	15.43	33.43	10	15.43	33.43	24.69	326	0.03
23	15.42	33.42	20	15.43	33.42	24.68	327	0.07
50	13.78	33.38	30	15.05	33.41	24.76	320	0.10
58	13.44	33.63	50	13.78	33.38	25.00	297	0.16
67	13.03	33.78	75	13.23	33.93	25.54	245	0.23
80	13.28	33.96	100	11.03	33.97	25.99	202	0.28
95	11.12	33.96	150	10.51	34.35	26.38	166	0.38
115	10.89	34.12	200	10.58	34.59	26.55	149	0.46
136	10.46	34.19	250	10.00	34.57	26.64	141	0.53
179	10.66	34.59	300	9.21	34.57	26.77	128	0.60
239	10.17	34.57	400	7.80	34.45	26.89	117	0.73
324	8.87	34.56	500	6.92	34.45	27.02	105	0.85
439	7.41	34.44	600	6.22	34.47	27.13	94	0.96
595	6.26	34.47	700	5.49	34.48	27.23	85	1.06
794	4.98	34.49	800	4.93	34.49	27.30	78	1.15
1072	4.14	34.52	1000	4.29	34.51	27.39	70	1.32

130.60

CREST; June 6, 1954; 2123 GCT; 25°29'N, 115°27'W; sounding, 2100 fm; wind, 330°, force 5; weather, clear; sea, very rough; wire angle, 17°.

0	18.8	33.73	0	18.8	33.73	24.12	380	0.00
10	18.38	33.68	10	18.38	33.68	24.19	374	0.04
30	18.28	33.70	20	18.30	33.69	24.22	371	0.08
55	16.70	33.44	30	18.28	33.70	24.23	370	0.11
69	15.74	33.40	50	17.08	33.48	24.35	359	0.18
78	15.32	33.48	75	15.47	33.47	24.71	324	0.27
93	13.94	33.30	100	13.44	33.31	25.02	295	0.35
116	12.48	33.63	150	11.12	34.03	26.02	200	0.47
149	11.12	34.02	200	10.28	34.31	26.39	164	0.57
172	11.05	34.31	250	9.30	34.32	26.56	148	0.65
228	9.45	34.30	300	9.03	34.42	26.68	137	0.72
307	9.00	34.43	400	8.01	34.45	26.86	120	0.86
417	7.82	34.45	500	6.95	34.44	27.01	106	0.98
564	6.42	34.44	600	6.16	34.44	27.11	96	1.09
764	5.24	34.51	700	5.55	34.48	27.22	86	1.19
1004	4.22	34.52	800	5.02	34.52	27.31	77	1.28
1325	3.38	34.57	1000	4.21	34.52	27.40	69	1.44

133.30

CREST; June 6, 1954; 0214 GCT; 25°54'N, 113°07'W; sounding, 107 fm; wind, 300°, force 4; weather, clear; sea, rough; wire angle, 20°.

0	16.6	33.59	0	16.6	33.59	24.55	340	0.00
10	16.58	33.53	10	16.58	33.53	24.51	343	0.03
15	16.54	33.57	20	16.14	33.61	24.67	328	0.07
20	16.14	33.61	30	15.21	33.64	24.90	306	0.10
25	15.78	33.62	50	11.49	33.79	25.77	223	0.15
30	15.21	33.64	75	11.90	34.24	26.04	198	0.21
35	12.70	33.49	100	11.64	34.40	26.21	182	0.25
44	11.54	33.66	150	11.23	34.67	26.50	154	0.34
55	11.50	33.88						
64	12.08	34.15						
79	11.84	34.27						
97	11.67	34.38						
116	11.56	34.46						
149	11.27	34.67						
174	11.02	34.65						

OBSERVED			INTERPOLATED			COMPUTED		
Z m	T °C	S ‰	Z m	T °C	S ‰	$\sigma_t$ g/L	$\delta_{T_3}$ $10^5 \text{ cm}^3/\text{g}$	$\Delta D$ dyn. m

CREST; June 6, 1954; 1301 GCT; 25°12.5'N, 114°22.5'W; sounding, 1900 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 22°.

0	16.9	33.42	0	16.90	33.42	24.35	359	0.00
10	16.93	33.44	10	16.93	33.44	24.36	358	0.04
29	16.92	33.48	20	16.93	33.47	24.38	356	0.07
44	16.41	33.44	30	16.90	33.48	24.39	355	0.11
59	15.58	33.40	50	16.15	33.42	24.52	342	0.18
69	14.06	33.33	75	13.49	33.34	25.03	294	0.26
78	13.29	33.36	100	13.22	33.88	25.50	249	0.32
92	12.76	33.70	150	10.98	34.07	26.08	194	0.44
101	13.24	33.93	200	10.82	34.48	26.42	162	0.53
114	12.80	34.16	250	10.33	34.52	26.54	150	0.61
141	10.96	34.04	300	9.76	34.52	26.64	141	0.68
167	11.04	34.32	400	8.58	34.49	26.81	125	0.82
221	10.62	34.51	500	7.33	34.50	27.00	107	0.95
285	9.92	34.52	600	6.30	34.48	27.12	95	1.06
398	8.62	34.49						
533	6.95	34.50						
674	5.69	34.45						

133.50

CREST; June 5, 1954; 1833 GCT; 25°33.5'N, 112°20.5'W; sounding, 40 fm; wind, 300°, force 4; weather, clear; sea, moderate; wire angle, 05°.

0	16.8	33.66	0	16.8	33.66	24.55	340	0.00
5	16.54	33.72	10	16.32	33.68	24.68	327	0.03
10	16.32	33.68	20	14.60	33.69	25.07	290	0.06
15	15.50	33.71	30	13.49	33.96	25.51	248	0.09
20	14.60	33.69	50	12.90	34.16	25.78	222	0.14
25	13.73	33.92						
30	13.49	33.96						
40	13.26	34.05						
55	12.71	34.20						
66	12.39	34.26						

137.23

CREST; June 5, 1954; 0900 GCT; 24°56'N, 113°22.5'W; sounding, 1975 fm; wind, 320°, force 6; weather, clear; sea, rough; wire angle, 30°.

0	18.3	33.53	0	18.3	33.53	24.09	383	0.00
10	18.23	33.57	10	18.23	33.57	24.14	379	0.04
28	18.17	33.53	20	18.18	33.55	24.14	379	0.08
40	15.48	33.30	30	18.16	33.51	24.11	382	0.11
49	14.45	33.22	50	14.36	33.22	24.76	320	0.18
57	13.92	33.28	75	12.63	33.35	25.21	277	0.26
65	13.02	33.22	100	12.00	33.86	25.72	228	0.32
73	12.68	33.28	150	11.01	34.38	26.31	172	0.42
84	12.47	33.61	200	10.50	34.54	26.53	151	0.51
90	12.34	33.77	250	10.07	34.56	26.62	143	0.58
109	11.60	33.93	300	9.55	34.56	26.70	135	0.66
130	11.30	34.22	400	8.38	34.48	26.83	123	0.79
173	10.75	34.49	500	7.21	34.45	26.98	109	0.92
223	10.31	34.56						
315	9.38	34.55						
425	8.07	34.47						
550	6.70	34.45						

137.40

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
50.47-H	VI-5	1614	39° 46.0'	123° 54.0'	52	calm		partly cloudy	rough	9.19	33.77
50.60-H	5	2305	39° 20.0'	124° 52.0'	1600	310°	2	partly cloudy	rough	13.52	32.62
50.80-H	6	0833	38° 41.0'	126° 21.0'	2400	320°	4	clear	rough	13.24	32.65
50.100-H	6	1722	38° 00.0'	127° 49.0'	2550	270°	2	cloudy	rough	13.84	32.88
53.55-H	5	0947	38° 55.5'	124° 04.5'	650	270°	3	clear	rough	10.59	33.01
57.51-H	4	1648	38° 30.0'	123° 22.0'	54	240°	2	partly cloudy	rough	8.48	33.89
57.65-H	4	2331	38° 02.0'	124° 23.5'	2180	250°	4	partly cloudy	rough	11.26	33.38
60.55-H	8	0238	37° 47.5'	123° 14.5'	68	310°	3	partly cloudy	moderate	10.20	33.40
60.70-H	7	1850	37° 17.0'	124° 19.0'	2200	290°	4	cloudy	rough	12.72a)	32.72
60.90-H	7	0919	36° 36.5'	125° 49.0'	2500	320°	4	clear	rough	14.04	32.95
63.52-H	9	1924	37° 18.5'	122° 36.5'	43	220°	3	cloudy	moderate	11.30	33.04
63.65-H	10	0115	36° 53.5'	123° 33.0'	1850	320°	4	cloudy	rough	12.64	33.47
67.55-H	10	1016	36° 40.5'	122° 26.5'	1150	320°	4	clear	rough	13.56	33.07
70.55-H	12	0012	36° 03.5'	122° 01.5'	760	300°	5	cloudy	rough	12.90	33.10
70.70-H	12	0743	35° 33.0'	123° 06.0'	2100	270°	3	cloudy	rough	14.48	32.87

a) Average value of 12.77 and 12.66°C.

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

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Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
70.90-H	VI-12	1700	34°52.5'	124°26.5'	2350	340°	4	cloudy	rough	14.98	32.87
73.50-H	10	2047	35°37.0'	121°16.5'	48	320°	4	partly cloudy	rough	10.43	33.60
77.50-H	11	0030	35°05.0'	120°52.0'	80	320°	6	partly cloudy	rough	10.68	33.79
77.65-H	11	0803	34°30.5'	122°03.5'	2100	320°	6	clear	very rough	12.21	33.40
80.51-H	14	0940	34°26.5'	120°32.5'	50	300°	6	cloudy	high	10.48	33.84
80.60-H	14	0428	34°16.5'	121°11.0'	1150	320°	7	clear	high	13.02	33.48
80.70-H	13	2346	33°50.0'	121°52.0'	2000	320°	7	clear	high	13.96	33.12
80.80-H	13	1909	33°28.0'	122°32.0'	2150	320°	6	partly cloudy	very rough	15.06	33.04
80.100-H	13	0902	32°49.0'	123°54.0'	2400	330°	6	partly cloudy	very rough	15.88	33.01
83.40-H	14	1800	34°14.0'	119°23.5'	12	calm		clear	slight	14.89	33.48
83.48-H	15	1535	33°58.5'	119°55.0'	100	340°	3	partly cloudy	slight	13.73	33.57
83.55-H	15	1930	33°43.5'	120°25.5'	655	330°	5	fog	very rough	12.58	33.51
83.70-H	16	0243	33°14.0'	121°27.0'	2100	320°	6	partly cloudy	very rough	14.03	33.32
83.90-H	16	1141	32°38.5'	122°51.0'	2300	320°	5	drizzle	very rough	15.12	33.26
85.50-H	15	0435	33°37.0'	119°51.5'	190	310°	5	clear	very rough	14.46	33.64
85.60-H	15	0957	33°13.5'	120°32.0'	655	340°	5	clear	high	13.28	33.40
87.35-H	17	2001	33°51.0'	118°38.5'	270	260°	2	cloudy	rough	16.86	33.43

TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S	
87.45-H	VI-17	1501	33°30.0'	119°18.5'	930	320°	3	overcast	rough	14.38	33.53	
87.55-H		17	0943	33°08.0'	119°59.5'	700	320°	7	clear	high	12.98	33.49
87.90-H		16	1615	32°03.0'	122°28.0'	2250	310°	6	cloudy	very rough	16.02	33.13
90.30-H		18	0753	33°24.0'	117°55.5'	310	290°	2	cloudy	slight	18.21	33.45
90.33 <sup>5</sup> -H		18	0948	33°17.5'	118°10.0'	400	220°	1	cloudy	slight	17.62	33.46
90.41-H		18	1420	33°02.5'	118°40.0'	180	180°	2	overcast	rough	15.75	33.42
90.45-H		18	1617	32°54.5'	118°56.0'	950	220°	1	cloudy	rough	16.18	33.44
90.50-H		18	1845	32°44.5'	119°17.5'	240	270°	4	clear	very rough	14.22	33.42
90.60-H		18	2356	32°25.0'	119°57.5'	520	320°	5	clear	very rough	14.10	33.33
93.27-H		21	0059	32°55.5'	117°18.5'	100	240°	1	cloudy	moderate	15.80	33.42
93.35-H		20	2120	32°48.0'	117°53.0'	341	140°	2	overcast	moderate	17.72	33.40
93.40-H		20	1918	32°45.5'	118°13.5'	725	140°	3	cloudy	moderate	17.42	33.43
93.45-H		20	1703	32°38.0'	118°37.0'	600	290°	1	cloudy	rough	16.21	33.40
93.55-H		20	1203	32°26.0'	119°21.5'	280	330°	5	clear	rough	14.10	33.42
93.60-H		20	0939	32°09.5'	119°40.0'	1900	320°	5	clear	high	13.88	33.39
97.30-C		23	0130	32°15.5'	117°09.0'	32	320°	4	partly cloudy	moderate	15.92	33.39
97.32-C		23	0005	32°11.5'	117°17.0'	800	300°	3	overcast	moderate	17.15	33.46

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
97.36-C	VI-22	2204	32° 03.0'	117° 33.5'	820	310°	3	overcast	rough	17.28	33.48
97.45-C	22	1704	31° 43.0'	118° 09.5'	800	330°	2	overcast	rough	16.91	33.40
97.50-C	22	1415	31° 35.0'	118° 30.0'	1350	310°	3	overcast	rough	16.53	33.35
97.55-C	22	1205	31° 26.0'	118° 47.0'	1200	290°	4	overcast	moderate	16.18	33.34
97.70-C	22	0420	30° 55.0'	119° 50.0'	1900	280°	3	overcast	moderate	16.60	33.43
97.90-C	21	1845	30° 15.0'	121° 12.5'	2100	200°	3	overcast	moderate	16.06	33.31
100.30-C	20	0505	31° 40.5'	116° 46.5'	230	330°	2	overcast	slight	17.32	33.48
100.35-C	20	0725	31° 31.0'	117° 07.0'	720	240°	2	overcast	moderate	16.52	33.37
100.40-C	20	0955	31° 21.0'	117° 27.5'	1000	240°	3	overcast	rough	16.37	33.38
100.45-C	20	1215	31° 13.0'	117° 47.0'	950	260°	2	overcast	rough	16.84	33.54
100.55-C	20	1822	30° 56.5'	118° 23.5'	950	260°	2	overcast	rough	16.46	33.27
100.60-C	20	2105	30° 45.5'	118° 44.0'	1600	180°	2	overcast	very rough	16.60	33.30
100.80-C	21	0720	30° 01.0'	120° 07.0'	2200	310°	2	overcast	very rough	16.08	33.33
103.35-C	19	2039	30° 55.5'	116° 46.0'	1050	310°	3	overcast	rough	16.79	33.35
103.45-C	19	1513	30° 36.5'	117° 24.5'	450	300°	4	cloudy	rough	16.10	33.35
103.50-C	19	1250	30° 23.0'	117° 44.0'	1200	310°	5	clear	rough	16.24	33.31
103.55-C	19	1015	30° 14.0'	118° 04.5'	1300	310°	5	clear	rough	16.62	33.35

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
103.70-C	VI-19	0225	29° 43.5'	119° 03.5'	2000+	310°	5	cloudy	very rough	16.64	33.22
107.32-C	17	1805	30° 26.0'	116° 11.0'	275	310°	3	overcast	rough	16.64	-
107.40-C	17	2345	30° 10.0'	116° 43.0'	1500	310°	4	overcast	rough	16.76	33.47
107.45-C	18	0106	30° 00.0'	117° 03.0'	1100	310°	5	overcast	rough	16.79	33.40
107.55-C	18	0650	29° 39.0'	117° 42.5'	1800	320°	4	overcast	rough	16.19	33.33
107.60-C	18	0926	29° 29.5'	118° 02.5'	2000	310°	5	cloudy	rough	16.36	33.25
110.35-C	17	0120	29° 46.5'	116° 00.0'	680	260°	2	overcast	moderate	15.98	33.38
110.45-C	17	0715	29° 26.5'	116° 39.5'	950	320°	4	overcast	rough	16.50	33.40
110.50-C	17	0930	29° 17.5'	116° 57.0'	1700	320°	4	overcast	rough	17.53	33.48
110.55-C	16	0748	29° 06.0'	117° 20.0'	2000	320°	3	overcast	rough	17.58	33.48
110.70-C	16	0010	28° 37.0'	118° 18.0'	2000	290°	3	overcast	rough	17.32	33.42
113.30-C	14	1143	29° 21.5'	115° 19.0'	38	310°	3	clear	slight	11.96	33.53
113.32 <sup>5</sup> -C	14	1245	29° 17.5'	115° 27.0'	60	280°	4	overcast	moderate	12.86	33.48
113.37 <sup>5</sup> -C	14	1640	29° 07.0'	115° 48.5'	950	270°	3	overcast	rough	14.38	33.48
113.40-C	14	1815	29° 01.5'	115° 58.5'	1050	240°	3	overcast	rough	16.02	33.40
113.42 <sup>5</sup> -C	14	1946	28° 56.5'	116° 08.0'	600	240°	3	overcast	rough	17.06	33.41
113.45-C	14	2117	28° 52.0'	116° 17.0'	1250	280°	3	overcast	rough	17.30	33.42

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
113.47 <sup>5</sup> -C	VI-14	2248	28°47.0'	116°27.0'	2150	310°	4	overcast	rough	17.30	33.44
113.55-C	15	0505	28°32.0'	116°56.5'	1900	290°	4	missing	rough	17.38	33.46
113.60-C	15	0735	28°22.5'	117°16.0'	2000	290°	4	missing	rough	17.68	33.51
117.26-C	14	0602	28°56.0'	114°41.0'	44	290°	5	clear	moderate	14.66	33.33
117.28-C	14	0440	28°52.0'	114°48.5'	49	280°	4	clear	moderate	14.94	33.39
117.32 <sup>5</sup> -C	14	0145	28°43.0'	115°06.5'	83	300°	5	overcast	rough	15.22	33.35
117.35-C	14	0010	28°38.0'	115°17.0'	105	310°	6	overcast	rough	16.08	33.37
117.37 <sup>5</sup> -C	13	2225	28°31.0'	115°27.0'	150	300°	5	overcast	rough	16.56	33.39
117.42 <sup>5</sup> -C	13	0910	28°23.0'	115°45.5'	800	320°	4	missing	rough	16.46	33.36
117.45-C	13	0733	28°18.0'	115°55.5'	1850	320°	4	overcast	rough	17.52	33.49
117.47 <sup>5</sup> -C	13	0530	28°11.0'	116°04.0'	2400	330°	6	overcast	rough	17.42	33.51
117.50-C	13	0400	28°04.5'	116°12.5'	2200	320°	4	missing	rough	17.52	33.47
117.55-C	13	0125	27°55.0'	116°32.0'	2300	310°	5	cloudy	rough	17.40	33.55
117.70-C	12	1600	27°24.0'	117°30.5'	2150	330°	5	overcast	rough	17.39	33.51
120.27 <sup>5</sup> -C	9	2130	28°18.0'	114°24.0'	47	310°	6	clear	rough	16.65	33.51
120.30-C	9	2300	28°13.0'	114°34.0'	52	310°	6	partly cloudy	rough	16.46	33.49
120.32 <sup>5</sup> -C	10	0012	28°07.5'	114°44.5'	46	320°	6	clear	very rough	16.56	33.48

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters T	10 Meters S
120.37 <sup>5</sup> -C	VI-10	0304	27°58.5'	115°03.0'	41	350°	4	clear	moderate	16.70	33.48
120.40-C	11	0256	28°55.5'	115°16.0'	27	320°	7	partly cloudy	missing	16.22	33.51
120.42 <sup>5</sup> -C	11	0415	27°48.0'	115°23.0'	120	320°	6	missing	rough	16.22	33.42
120.45-C	11	0540	27°42.0'	115°33.0'	1400	320°	6	missing	rough	16.98	33.46
120.47 <sup>5</sup> -C	11	0720	27°37.5'	115°42.0'	2400	320°	6	missing	very rough	17.54	33.63
120.55-C	11	1223	27°22.5'	116°12.0'	2000	320°	4	cloudy	rough	17.36	33.50
120.60-C	11	1455	27°13.0'	116°32.0'	2000	330°	4	cloudy	rough	17.27	33.51
120.80-C	12	0103	26°32.0'	117°49.0'	2100	330°	5	cloudy	rough	17.71	33.43
123.37-C	9	0920	27°24.0'	114°40.0'	40	290°	3	missing	rough	12.02	33.84
123.42 <sup>5</sup> -C	9	0525	27°13.0'	115°01.5'	1100	320°	6	clear	rough	16.54	33.40
123.45-C	9	0350	27°08.0'	115°11.0'	2200	330°	5	partly cloudy	rough	17.93	33.66
123.47 <sup>5</sup> -C	9	0218	27°03.0'	115°21.0'	2100	330°	5	partly cloudy	rough	17.94	33.58
123.50-C	9	0045	26°58.0'	115°30.5'	2000	320°	5	partly cloudy	rough	18.11	33.52
123.55-C	8	2215	26°47.5'	115°50.0'	2000	340°	5	cloudy	rough	17.72	33.46
127.37-C	7	2300	26°49.5'	114°17.0'	1300	300°	5	clear	rough	14.88	33.51
127.40-C	8	0050	26°43.5'	114°29.0'	1650	310°	5	clear	rough	15.94	33.46
127.42 <sup>5</sup> -C	8	0220	26°38.5'	114°38.0'	2000	300°	5	clear	very rough	15.70	33.49

## TEMPERATURE AND SALINITY AT 10 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Wind Force	Weather	Sea	10 Meters	T	S
127.45-C	VI-8	0358	26°33.0'	114°48.0'	1770	310°	5	clear	rough	17.30	33.43	
127.47 <sup>5</sup> -C	8	0530	26°27.5'	114°58.0'	1900	320°	5	clear	rough	18.28	33.74	
127.55-C	8	1033	26°10.5'	115°27.0'	2000	320°	5	clear	rough	17.97	33.51	
127.60-C	8	1330	26°01.0'	115°47.5'	2000	340°	6	cloudy	rough	17.72	33.48	
130.35-C	7	1325	26°17.0'	113°48.0'	335	310°	4	clear	rough	16.09	33.47	
130.45-C	7	0650	25°58.5'	114°27.0'	1900	320°	5	missing	rough	18.38	33.78	
130.50-C	7	0425	25°50.0'	114°46.5'	1950	320°	5	missing	rough	18.54	33.88	
130.55-C	7	0135	25°40.0'	115°07.0'	2000	320°	5	partly cloudy	very rough	18.26	33.71	
133.25-C	5	2315	26°04.0'	112°50.0	50	270°	5	clear	rough	15.62	33.87	
133.35-C	6	0450	25°44.0'	113°26.5'	400	320°	5	clear	rough	16.37	33.58	
133.40-C	6	0725	25°34.0'	113°45.0'	1500	320°	5	missing	rough	15.87	33.37	
133.45-C	6	0955	25°23.5'	114°04.0'	1900	320°	6	missing	rough	17.10	33.58	
137.30-C	5	1510	25°20.0'	112°45.5'	200	320°	4	missing	rough	16.12	33.58	
137.35-C	5	1155	25°04.5'	113°03.0'	650	320°	4	missing	rough	17.71	33.56	
137.45-C	5	0546	24°47.5'	113°42.0'	1750	320°	4	missing	rough	18.32	33.55	
137.50-C	5	0305	24°39.0'	114°01.5'	1840	310°	4	partly cloudy	rough	18.12	33.53	

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