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STATION POSITIONS 45

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

## data report

PHYSICAL AND CHEMICAL DATA  
CCOFI CRUISE 5405  
(MLR 60)  
5-24 May 1954

SIO Reference 59-15  
1 March 1959

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5405

(MLR 60)

5-24 May 1954

CONTINUE

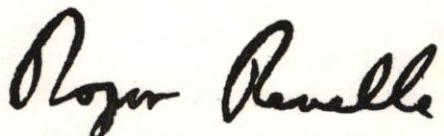
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Marine Research Committee

SIO Reference 59-15

1 March 1959

Approved for distribution:



Roger Revelle, Director

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6. Horizontal distribution of temperature at 200 meters
7. Horizontal distribution of salinity at 200 meters

## INTRODUCTION

The data presented in this report were collected on the sixtieth 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.

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.

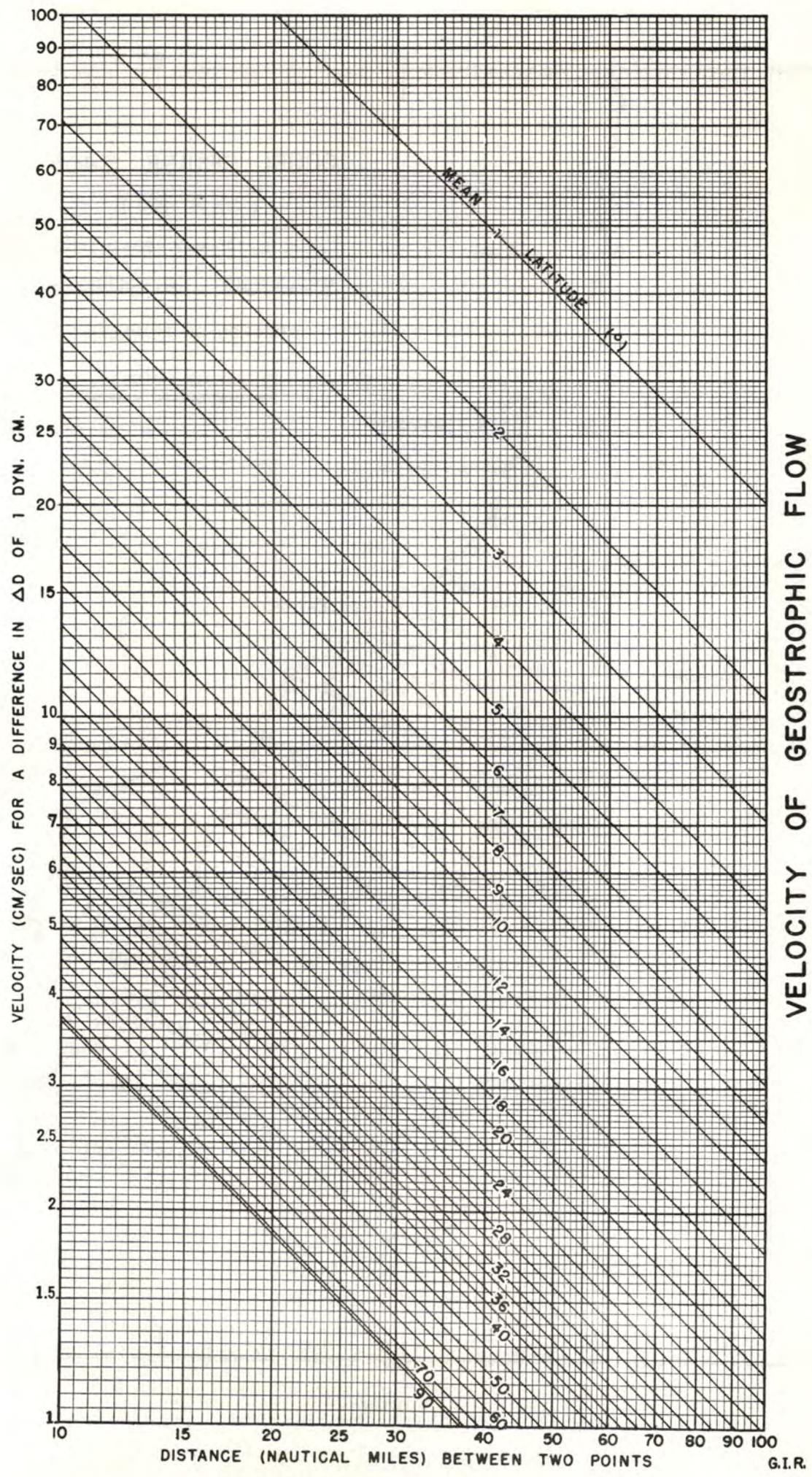
Values which are not drawn through because they seem to be in error without apparent reason are indicated by one of the following notations.

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 5405 data is numbered 136.



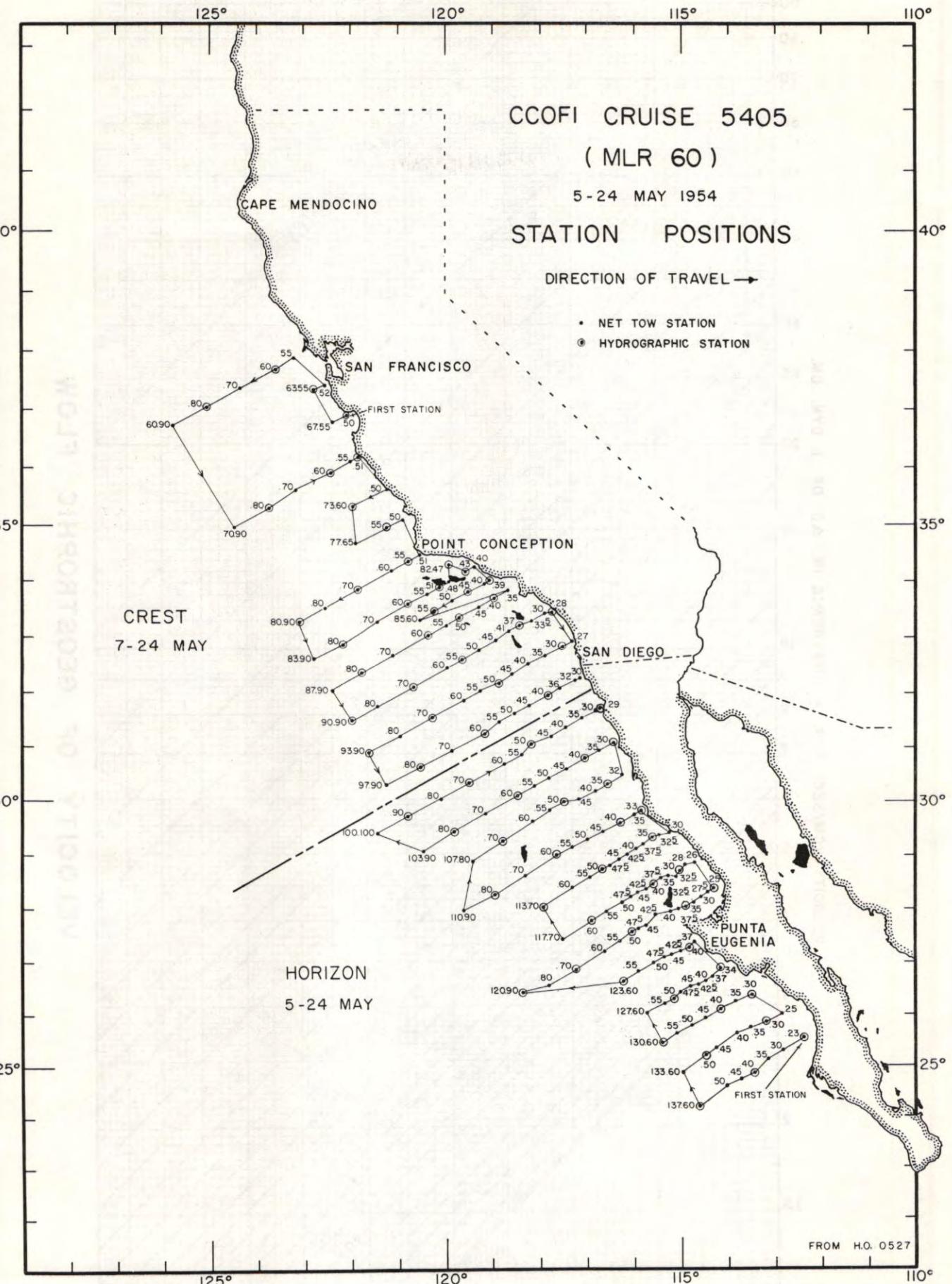


FIGURE I

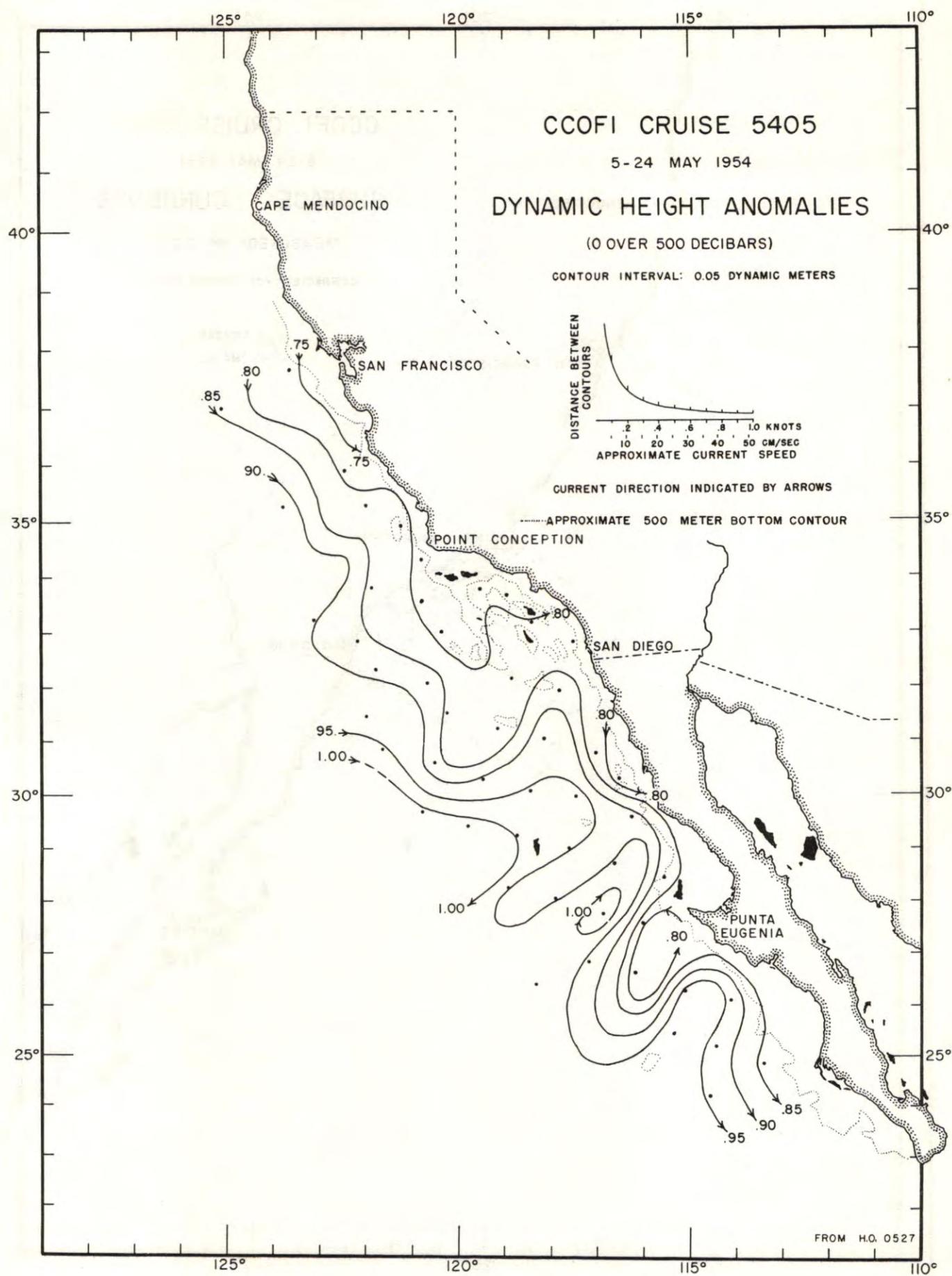


FIGURE 2

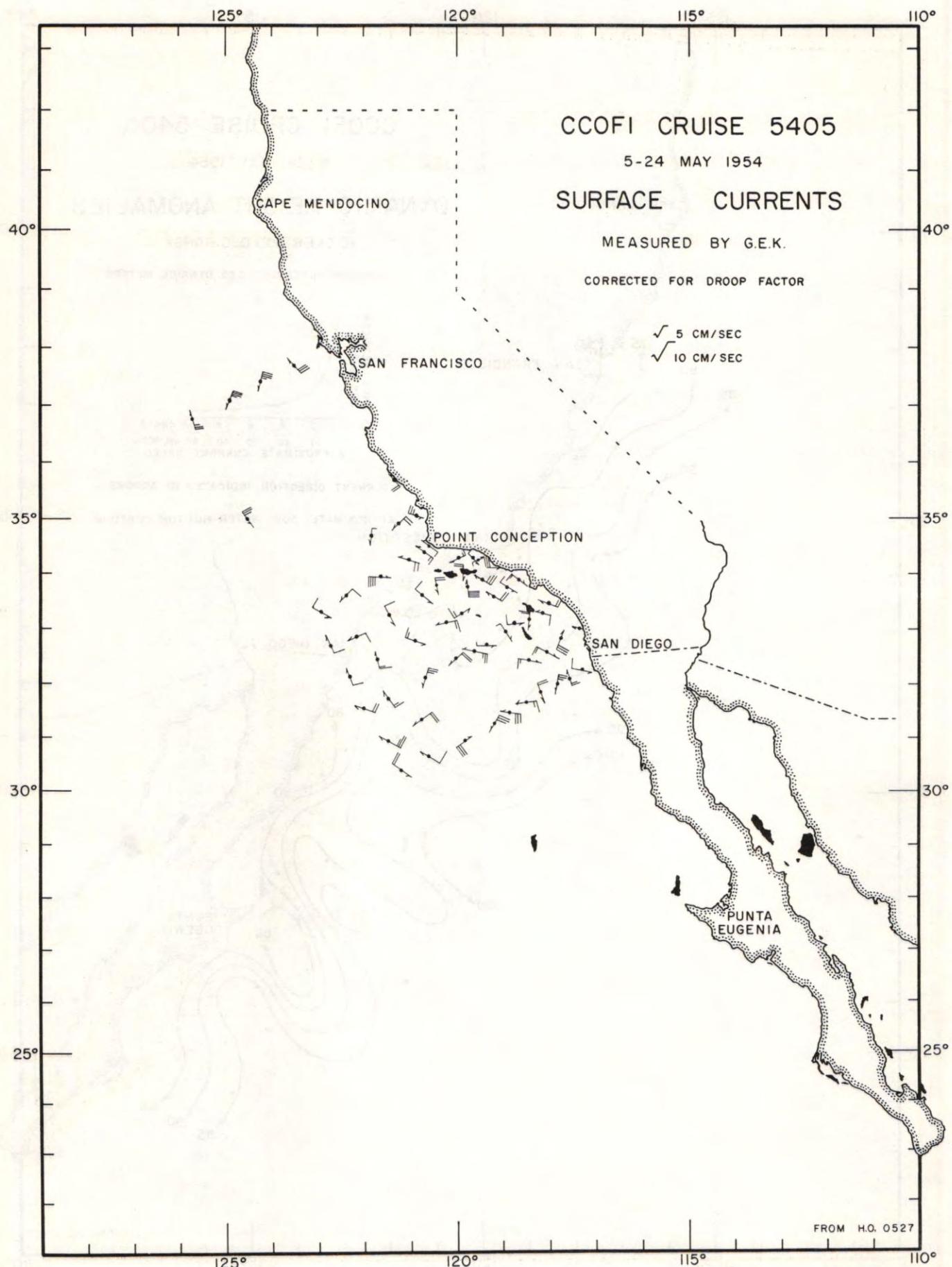


FIGURE 3

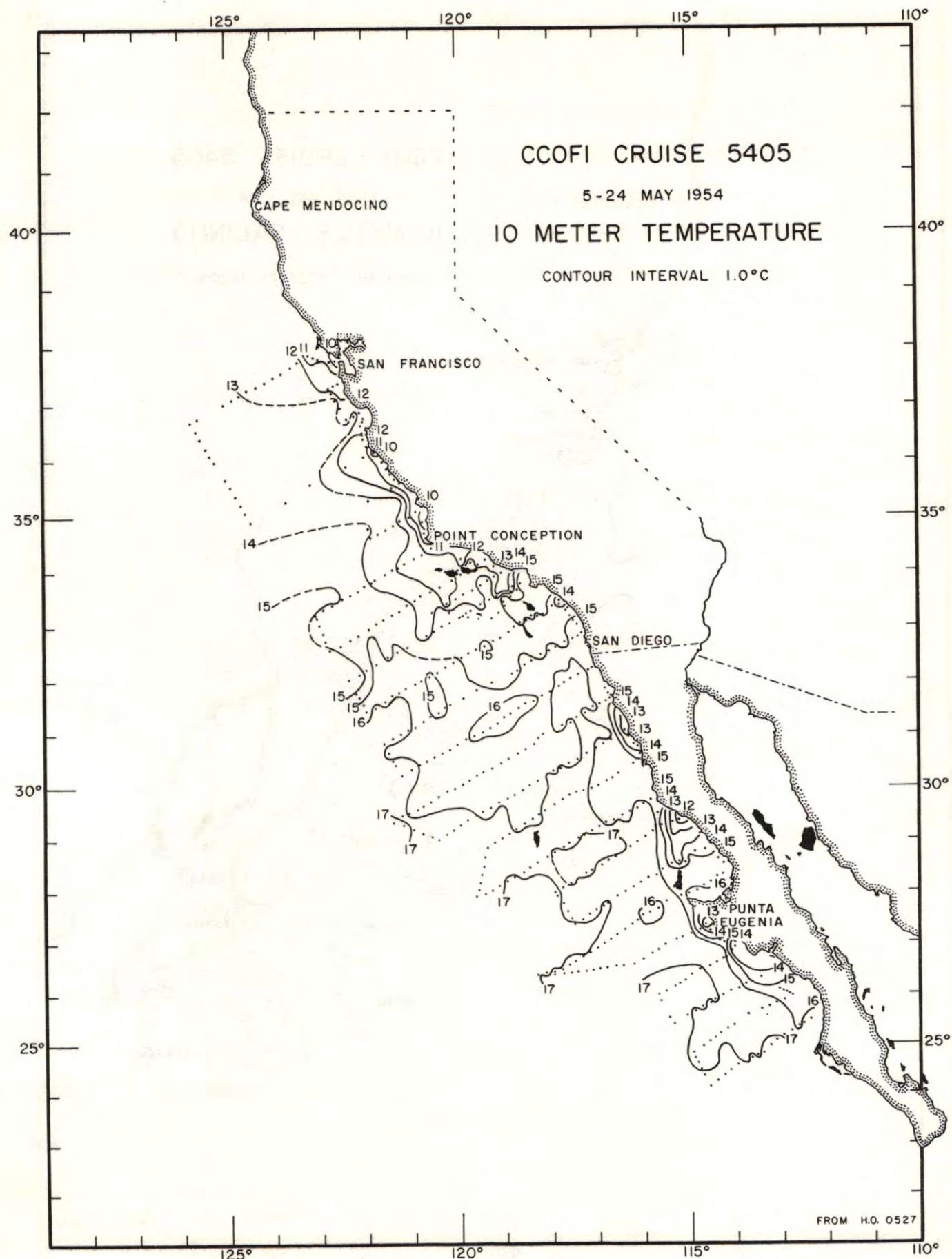


FIGURE 4

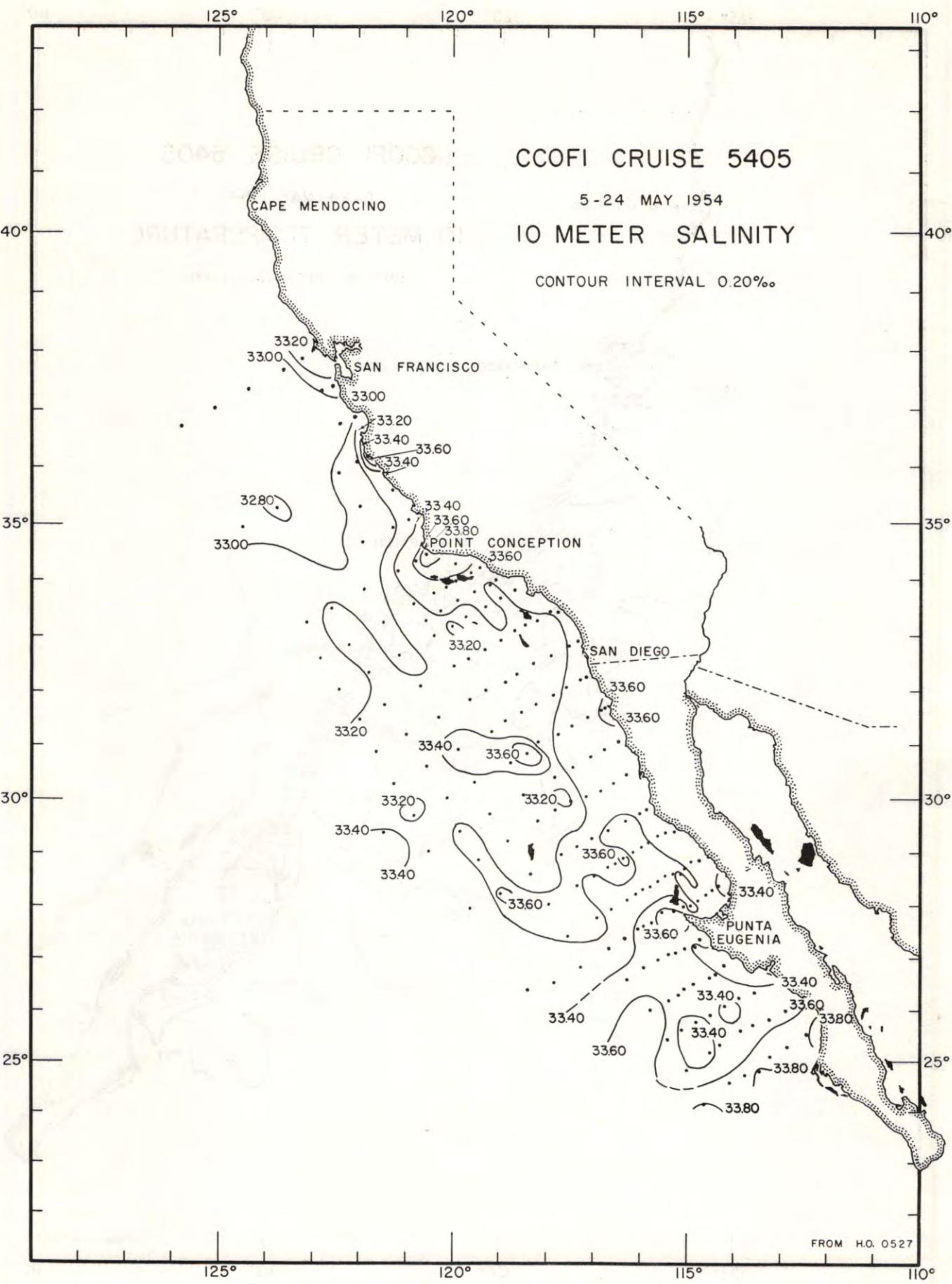


FIGURE 5

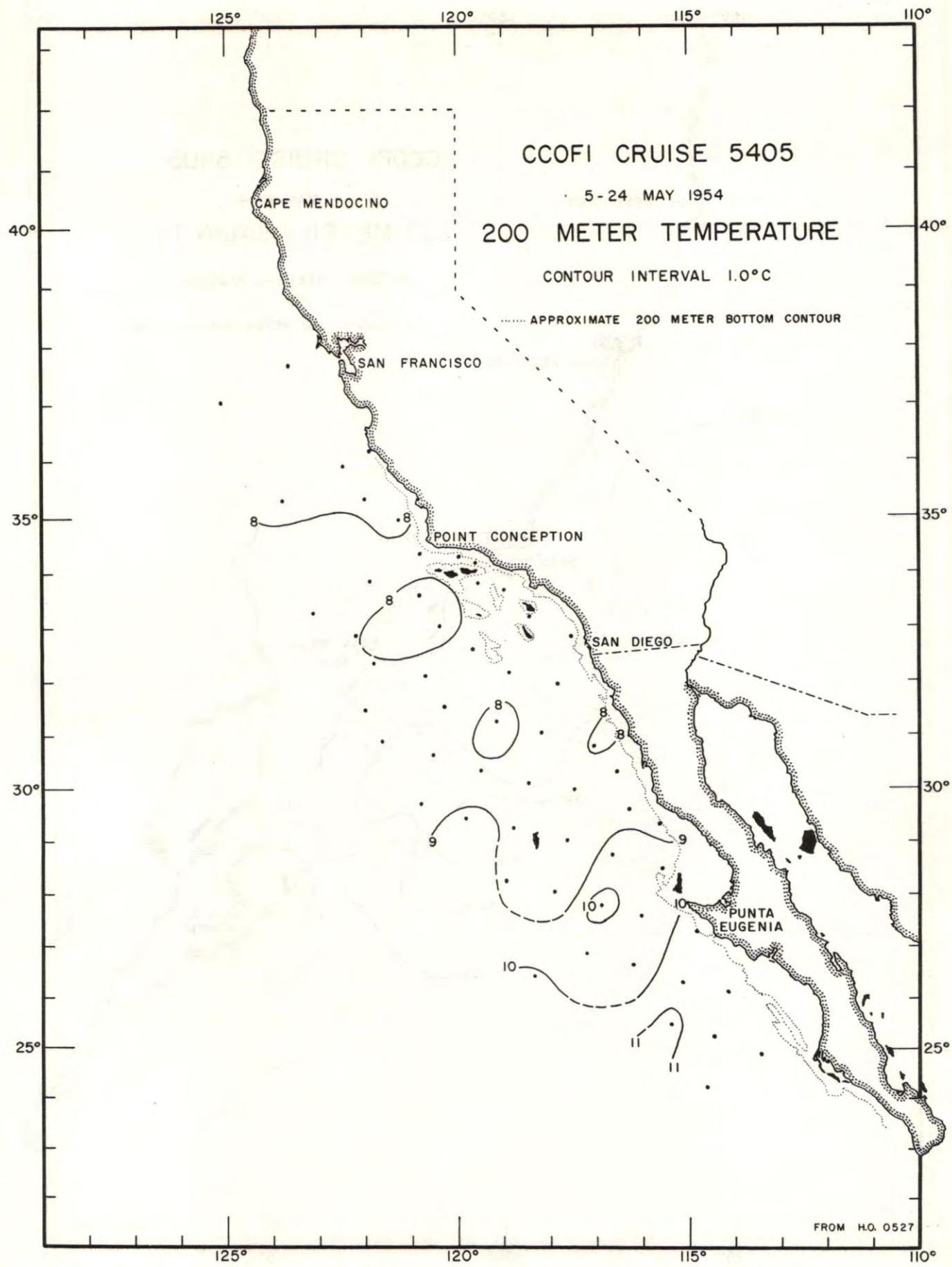


FIGURE 6

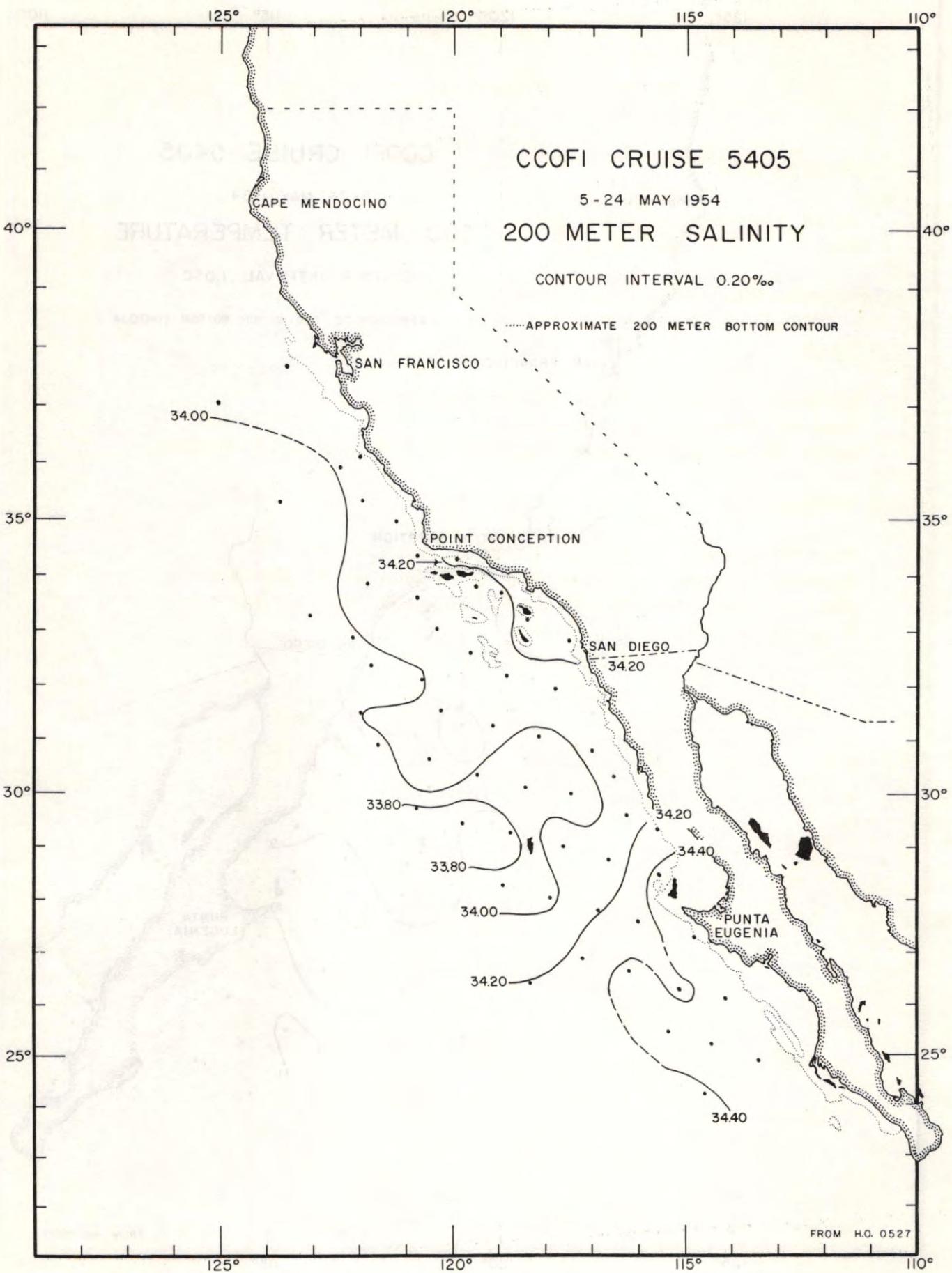


FIGURE 7

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

Coolidge, Richard N., Senior Marine Technician  
 Brennan, Robert E., Marine Technician  
 Grom, Robert A., Marine Biologist, U. S. Fish and Wildlife Service

#### R/V Horizon

Payne, Miles M., Jr., Senior Marine Technician  
 Hapgood, William F., Fishery Aid, U. S. Fish and Wildlife Service  
 Taft, Bruce A., Fishery Aid, U. S. Fish and Wildlife Service  
 Willis, R. S., Marine Technician

SIO

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5405

	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

60.60

CREST; May 11, 1954; 0023 GCT; 37°37'N, 123°37'W; sounding, 1800 fm; wind, 300°, force 4; weather, partly cloudy; sea, moderate; wire angle, 02°.

0	12.9	32.88	0	12.9	32.88	24.79	317	0.00
10	11.74	-	10	11.74	32.98	25.09	288	0.03
25	10.06	33.18	20	10.60	33.13	25.41	258	0.06
57	9.39	33.39	30	9.90	33.22	25.60	240	0.08
66	9.00	33.47	50	9.55	33.35	25.76	224	0.13
78	9.04	33.60	75	9.03	33.57	26.02	200	0.18
93	8.85	33.69	100	8.74	33.77	26.22	181	0.23
113	8.55	33.92	150	8.00	34.01	26.52	152	0.32
138	8.10	33.99	200	7.40	34.05	26.64	141	0.39
169	7.86	34.44r	250	6.90	34.11	26.75	130	0.46
223	7.13	34.06	300	6.61	34.18	26.85	121	0.52
303	6.60	34.18	400	6.08	34.19	26.92	114	0.65
414	6.00	34.19	500	5.53	34.26	27.05	102	0.76
560	5.24	34.31	600	5.10	34.33	27.15	92	0.86
755	4.55	34.41	700	4.73	34.38	27.24	84	0.96
996	3.78	34.52	800	4.41	34.44	27.32	76	1.05
1312	3.08	34.55	1000	3.78	34.52	27.45	64	1.20

60.80

CREST; May 11, 1954; 1104 GCT; 36°57'N, 125°04.5'W; sounding, 2200 fm; wind, 330°, force 4; weather, cloudy; sea, moderate; wire angle, 30°.

0	13.5	32.94	0	13.5	32.94	24.72	323	0.00
10	13.43	32.91	10	13.43	32.91	24.71	324	0.03
23	13.42	32.94	20	13.42	32.93	24.73	322	0.06
45	12.91	33.03	30	13.28	32.97	24.79	317	0.10
53	12.66	32.94	50	12.70	33.01	24.93	303	0.16
62	12.64	32.89	75	10.60	33.20	25.47	252	0.23
70	11.76	33.07	100	8.99	33.56	26.01	201	0.29
86	9.50	33.42	150	8.32	33.89	26.38	166	0.38
106	8.84	33.61	200	7.70	34.01	26.56	148	0.46
131	8.55	33.81	250	6.90	34.03	26.69	136	0.53
171	8.08	33.96	300	6.29	34.04	26.78	128	0.60
231	7.20	34.03	400	5.52	34.13	26.95	111	0.72
304	6.26	34.04	500	5.07	34.22	27.07	100	0.83
423	5.40	34.15	600	4.70	34.30	27.18	90	0.94
580	4.76	34.28	700	4.40	34.37	27.26	82	1.03
781	4.19	34.42	800	4.14	34.43	27.34	74	1.11
1071	3.50	34.50	1000	3.63	34.49	27.44	65	1.27

63.55

CREST; May 9, 1954; 1758 GCT; 37°16'N, 122°50.5'W; sounding, 140 fm; wind, 140°, force 4; weather, cloudy; sea, rough; wire angle, 11°.

0	12.08	32.94	0	12.08	32.94	25.00	297	0.00
10	11.46	32.99	10	11.46	32.99	25.15	282	0.03
15	10.56	33.19	20	10.40	33.22	25.52	247	0.06
20	10.40	33.22	30	10.10	33.30	25.63	237	0.08
25	10.25	33.26	50	9.49	33.40	25.81	220	0.13
30	10.10	33.30	75	8.90	33.65	26.10	192	0.18
35	10.03	33.32	100	8.40	33.79	26.29	174	0.22
45	9.63	33.37	150	8.11	33.96	26.46	158	0.31
56	9.30	33.43						
65	9.03	33.61						
80	8.84	33.66						
100	8.40	33.79						
121	8.28	33.86						
156	8.06	33.98						

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; May 9, 1954; 1010, 1026 GCT; 36°49'N, 122°05.5'W; sounding, 60 fm; wind, 100°, force 4; weather, rain; sea, moderate; wire angle, 02°, 02°.

0	12.48	32.85	0	12.48	32.85	24.85	311	0.00
10	12.38	32.91	10	12.38	32.91	24.92	304	0.03
15	10.52	33.33	20	10.14	33.44	25.73	227	0.06
20	10.14	33.44	30	9.24	33.53	25.95	206	0.08
25	9.33	33.56	50	8.90	33.67	26.11	191	0.12
30	9.24	33.53	75	(8.72)	(33.78)	(26.23)	(180)	(0.17)
36	9.08	33.57						
46	8.92	33.63						
56	8.86	33.74						
72	8.73	33.78						

CREST; May 13, 1954; 0836 GCT; 36°10.5'N, 121°46'W; sounding, 200 fm; wind, 120°, force 1; weather, clear; sea, rough; wire angle, 02°.

0	10.27	33.56	0	10.27	33.56	25.80	221	0.00
10	9.87	33.62	10	9.87	33.62	25.92	209	0.02
15	9.23	33.78	20	9.14	33.77	26.15	187	0.04
20	9.14	33.77	30	9.00	33.84	26.23	180	0.06
25	9.04	33.82	50	8.89	33.86	26.26	177	0.10
30	9.00	33.84	75	8.73	33.89	26.31	172	0.14
35	8.96	33.81	100	8.58	33.94	26.38	166	0.18
46	8.90	33.85	150	8.22	33.98	26.46	158	0.26
55	8.85	33.86	200	7.89	34.07	26.58	146	0.34
71	8.76	33.88	250	7.52	34.13	26.68	137	0.41
87	8.64	33.92						
107	8.54	33.94						
136	8.39	33.95						
171	8.00	34.03						
207	7.86	34.08						
258	7.43	34.14						

CREST; May 13, 1954; 0105 GCT; 35°51.5'N, 122°26'W; sounding, 1700 fm; wind, 320°, force 6; weather, cloudy; sea, high; wire angle, 38°.

0	11.85	33.00	0	11.85	33.00	25.09	288	0.00
9	11.89	33.75r	10	11.89	33.02	25.09	288	0.03
17	11.89	33.51r	20	11.90	33.05	25.12	285	0.06
25	11.91	33.06	30	11.88	33.07	25.13	284	0.09
60	9.90	33.41	50	10.01	33.10	25.49	250	0.14
70	9.36	33.94r	75	9.21	33.68	26.07	195	0.20
89	8.93	33.74	100	8.71	33.69	26.16	186	0.24
101	8.70	33.69	150	8.13	33.90	26.41	163	0.33
133	8.32	33.86	200	7.54	34.02	26.59	146	0.41
175	7.85	33.96	250	7.00	34.09	26.72	133	0.48
233	7.16	34.08	300	6.55	34.09	26.78	128	0.55
312	6.46	34.09	400	6.08	34.15	26.89	117	0.68
421	5.97	34.16	500	5.59	34.19	26.99	108	0.79
591	5.22	34.22	600	(5.19)	(34.22)	(27.06)	(101)	(0.91)
885	4.42	34.78r	700	(4.89)				
			800	(4.61)				

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

70.80

CREST; May 12, 1954; 1041, 1123 GCT; 35°13'N, 123°48'W; sounding, 2000 fm; wind, 350°, force 7; weather, cloudy; sea, high; wire angle, 28°, 28°.

0	13.4	32.87	0	13.4	32.87	24.69	326	0.00
10	13.35	32.77	10	13.35	32.77	24.62	333	0.03
28	13.36	32.85	20	13.37	32.82	24.65	330	0.07
49	12.68	-	30	13.30	32.85	24.69	326	0.10
62	12.48	32.87	50	12.64	32.87	24.84	312	0.16
85	11.12	32.88	75	11.81	32.87	24.99	298	0.24
92	10.35	33.04	100	9.80	33.09	25.52	247	0.31
100	9.80	33.09	150	8.51	33.64	26.15	187	0.42
126	8.68	33.40	200	7.89	33.88	26.43	161	0.51
146	8.54	33.62	250	7.54	34.03	26.60	145	0.58
195	7.92	33.86	300	6.97	34.03	26.68	137	0.66
			400	5.91	34.03	26.82	124	0.79
258	7.50	34.04	500	5.37	34.13	26.96	110	0.92
351	6.28	34.00	600	4.80	34.24	27.12	95	1.02
475	5.49	34.11	700	4.44	34.33	27.23	85	1.12
646	4.59	34.28	800	4.18	34.39	27.30	78	1.21
856	4.02	34.42	1000	3.71	34.49	27.43	66	1.37
1155	3.42	34.54						

73.60

CREST; May 13, 1954; 1828 GCT; 35°18'N, 121°58'W; sounding, 1350 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 20°.

0	13.18	33.34r	0	13.18	(33.01)	(24.84)	(312)	(0.00)
10	13.12	33.02	10	13.12	33.02	24.86	310	0.03
31	13.00	33.02	20	13.08	33.02	24.87	309	0.06
45	12.99	33.06	30	13.00	33.02	24.88	308	0.09
58	10.64	33.26	50	12.00	33.13	25.16	281	0.15
68	10.18	33.28	75	9.80	33.34	25.71	229	0.22
77	9.74	33.36	100	9.00	33.63	26.07	195	0.27
92	9.09	33.58	150	8.60	33.97	26.40	164	0.36
101	9.00	33.64	200	7.97	34.06	26.56	148	0.44
115	8.94	33.79	250	7.40	34.12	26.69	136	0.51
143	8.70	33.94	300	6.98	34.15	26.77	128	0.58
171	8.35	34.02	400	6.08	34.12	26.87	119	0.71
228	7.67	34.09	500	5.54	34.19	26.99	108	0.83
293	7.03	34.15	600	5.03	34.31	27.15	92	0.93
408	6.04	34.07						
540	5.38	34.25						
677	4.82	34.39						

77.55

CREST; May 14, 1954; 0502 GCT; 34°55'N, 121°14'W; sounding, 305 fm; wind, 320°, force 3; weather, cloudy; sea, moderate; wire angle, 04°.

0	12.81	32.97	0	12.81	32.97	24.88	308	0.00
10	12.82	33.12	10	12.82	33.12	24.99	298	0.03
30	12.67	32.97	20	12.74	33.06	24.96	300	0.06
41	12.34	32.97	30	12.67	32.97	24.91	305	0.09
51	11.48	33.28	50	11.53	33.25	25.34	264	0.15
62	10.34	33.34	75	9.80	33.41	25.77	223	0.21
72	10.00	33.37	100	9.24	33.56	25.97	204	0.26
82	9.50	33.49	150	8.37	33.95	26.42	162	0.36
92	9.30	33.52	200	7.92	34.03	26.55	149	0.44
102	9.23	33.57	250	7.41	34.10	26.67	138	0.51
122	8.76	33.71	300	6.99	34.16	26.78	128	0.58
146	8.40	33.93	400	6.32	34.25	26.94	112	0.70
168	8.26	34.00	500	5.78	34.30	27.05	102	0.82
207	7.87	34.04						
392	6.38	34.25						
514	5.71	34.30						

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; May 14, 1954; 1536 GCT; 34°19'N, 120°48'W; sounding, 427 fm; wind, 300°, force 2; weather, cloudy; sea, moderate; wire angle, 02°.

0	12.23	33.60	0	12.23	33.60	25.48	251	0.00
10	12.00	33.75	10	12.00	33.75	25.64	236	0.02
20	11.38	33.51	20	11.38	33.51	25.57	242	0.05
30	11.29	33.60	30	11.29	33.60	25.65	235	0.07
42	10.21	33.57	50	9.80	33.74	26.02	200	0.12
52	9.23	33.75	75	9.57	33.82	26.12	190	0.17
63	9.64	33.79	100	9.38	33.84	26.17	185	0.21
73	9.58	33.82	150	9.18	34.00	26.33	170	0.30
103	9.36	33.84	200	8.31	34.13	26.57	148	0.38
128	9.31	33.89	250	7.86	34.16	26.66	139	0.46
157	9.08	34.03	300	7.61	34.19	26.72	133	0.53
206	8.26	34.14	400	7.05	34.23	26.83	123	0.66
266	7.76	34.17	500	6.02	34.25	26.98	109	0.78
372	7.32	34.22	600	5.59	34.32	27.09	98	0.89
492	6.06	34.25						
619	5.52	34.35						

CREST; May 14, 1954; 2335 GCT; 33°48.5'N, 121°50.5'W; sounding, 1900 fm; wind, 290°, force 1; weather, cloudy; sea, moderate; wire angle, 18°.

0	13.4	33.09	0	13.4	33.09	24.86	310	0.00
10	13.35	33.06	10	13.35	33.06	24.84	312	0.03
25	13.20	33.08	20	13.27	33.07	24.87	309	0.06
40	12.52	33.09	30	12.99	33.08	24.93	303	0.09
49	11.85	33.18	50	11.80	33.19	25.24	274	0.15
59	11.22	33.23	75	10.51	33.43	25.66	234	0.22
78	10.40	33.46	100	9.72	33.63	25.95	206	0.27
97	9.82	33.60	150	8.95	34.05	26.40	164	0.36
121	9.12	33.86	200	8.29	34.10	26.54	150	0.44
148	8.97	34.04	250	7.70	34.18	26.70	135	0.52
194	8.38	34.09	300	7.04	34.18	26.79	127	0.58
260	7.58	34.19	400	6.19	34.19	26.91	115	0.71
359	6.38	34.15	500	5.79	34.28	27.03	104	0.83
481	5.86	34.27	600	5.38	34.34	27.13	94	0.93
656	5.11	34.37	700	4.84	34.39	27.23	85	1.03
874	4.26	34.46	800	4.49	34.43	27.30	78	1.12
1177	3.47	34.52	1000	3.89	34.49	27.41	68	1.28

CREST; May 15, 1954; 0900, 0925 GCT; 33°12.5'N, 123°06'W; sounding, 2300 fm; wind, 280°, force 3; weather, cloudy; sea, moderate; wire angle, 04°, 04°.

0	14.9	33.19	0	14.9	33.19	24.62	333	0.00
10	14.89	33.19	10	14.89	33.19	24.62	333	0.03
25	14.81	33.22	20	14.88	33.21	24.64	331	0.07
50	14.24	33.24	30	14.72	33.23	24.69	326	0.10
60	13.42	33.19	50	14.24	33.24	24.80	316	0.16
			75	12.40	33.19	25.13	284	0.24
70	12.84	33.19	100	10.19	33.32	25.63	237	0.30
80	11.96	33.19	150	8.84	33.69	26.14	188	0.41
101	10.17	33.33	200	8.29	33.92	26.40	164	0.50
126	9.40	33.53	250	7.54	33.99	26.57	148	0.58
156	8.76	33.73	300	7.00	34.06	26.70	135	0.65
207	8.20	33.93	400	6.21	34.22	26.93	113	0.78
277	7.23	34.02	500	5.58	34.25	27.03	104	0.90
382	6.36	34.21	600	5.08	34.28	27.12	95	1.00
513	5.48	34.25	700	4.68	34.32	27.19	89	1.10
700	4.68	34.32	800	4.33	(34.36)	(27.26)	(82)	(1.20)
927	3.97	-	1000	3.78	(34.45)	(27.39)	(70)	(1.36)
1233	3.25	34.53						

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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

82.47

CREST; May 16, 1954; 1719, 1735 GCT;  $34^{\circ}16.5'N$ ,  $119^{\circ}58'W$ ; sounding, 250 fm; wind,  $080^{\circ}$ , force 1; weather, partly cloudy; sea, slight; wire angle,  $04^{\circ}$ ,  $04^{\circ}$ .

0	14.25	33.66		0	14.25	33.66	25.12	285	0.00
10	11.65	33.68		10	11.65	33.68	25.65	235	0.03
15	11.25	33.58		20	11.06	33.62	25.71	229	0.05
20	11.06	33.62		30	10.68	33.71	25.85	216	0.07
25	10.93	33.65		50	9.63	33.82	26.11	191	0.11
30	10.68	33.71		75	9.54	33.91	26.20	183	0.16
				100	9.28	34.04	26.34	169	0.20
40	9.35	33.66		150	9.08	34.08	26.41	163	0.29
50	9.63	33.82		200	8.50	34.30	26.67	138	0.36
65	9.56	33.88		250	8.10	34.18	26.64	141	0.44
80	9.51	33.93		300	7.60	34.20	26.73	132	0.51
100	9.28	34.04		400	6.68	34.24	26.89	117	0.64
126	9.22	34.02							
166	8.92	34.14							
205	8.46	34.30a)							
256	8.08	34.18							
331	7.30	34.21							
413	6.57	34.24							

CEGB

83.43

CREST; May 16, 1954; 2108 GCT;  $34^{\circ}08'N$ ,  $119^{\circ}33.5'W$ ; sounding, 127 fm; wind,  $280^{\circ}$ , force 2; weather, partly cloudy; sea, slight; wire angle,  $05^{\circ}$ .

0	14.82	33.57		0	14.82	33.57	24.93	303	0.00
10	13.68	33.58		10	13.68	33.58	25.18	280	0.03
15	12.99	33.60		20	12.81	33.55	25.33	265	0.06
20	12.81	33.55		30	12.15	33.56	25.46	253	0.08
25	12.51	33.56		50	11.00	33.70	25.78	222	0.13
30	12.15	33.56		75	9.56	33.78	26.09	193	0.18
35	11.88	33.58		100	9.14	33.95	26.29	174	0.23
45	11.51	33.75		150	8.78				
55	10.28	33.60		200	8.30				
66	9.67	33.66							
77	9.53	33.80							
95	9.20	33.95							
110	9.05	33.96							
139	8.81	34.10r							
168	8.71	34.54r							
202	8.27	34.13r							

CEGB

83.51

CREST; May 16, 1954; 1206 GCT;  $33^{\circ}52'N$ ,  $120^{\circ}07'W$ ; sounding, 80 fm; wind,  $320^{\circ}$ , force 6; weather, partly cloudy; sea, moderate; wire angle,  $07^{\circ}$ .

0	12.70	33.61		0	12.70	33.61	25.40	259	0.00
5	12.64	33.54		10	12.61	33.55	25.37	262	0.03
10	12.61	33.55		20	11.63	33.55	25.55	244	0.05
15	12.54	-		30	10.60	33.58	25.76	224	0.08
20	11.63	-		50	9.49	33.77	26.10	192	0.12
25	11.02	33.55							
35	10.24	33.62							
45	9.71	-							
51	9.43	33.79							
56	9.18	33.87							
71	9.07	34.06							

a) Acceptance of this value results in an unusual density structure.

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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

CREST; May 16, 1954; 0608 GCT; 33°34'N, 120°49'W; sounding, 800 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 22°.

0	13.52	33.33	0	13.52	33.33	25.02	295	0.00
10	13.43	33.35	10	13.43	33.35	25.05	292	0.03
20	13.07	33.40	20	13.07	33.40	25.16	281	0.06
30	12.67	33.44	30	12.67	33.44	25.27	271	0.09
44	10.68	33.41	50	10.60	33.45	25.66	234	0.14
63	10.00	33.54	75	9.71	33.58	25.91	210	0.19
72	9.75	33.51	100	9.08	33.77	26.16	186	0.24
80	9.64	33.67	150	8.30	33.86	26.36	167	0.33
93	8.96	33.59	200	7.73	34.16	26.68	137	0.41
102	9.07	33.82	250	7.39	34.20	26.76	129	0.48
124	8.77	33.87	300	7.10	34.19	26.79	127	0.54
149	8.31	33.86	400	6.51	34.22	26.89	117	0.67
188	7.82	34.14	500	5.89	34.32	27.05	102	0.79
254	7.36	34.20	600	5.37	34.41	27.19	89	0.89
362	6.76	34.18						
487	5.96	34.31						
622	5.27	34.43						

CREST; May 15, 1954; 1907 GCT; 32°49.5'N, 122°08'W; sounding, 2330 fm; wind, 300°, force 3; weather, cloudy; sea, moderate; wire angle, 03°.

0	14.5	33.21	0	14.5	33.21	24.72	323	0.00
10	14.26	33.24	10	14.26	33.24	24.79	317	0.03
31	14.21	33.21	20	14.21	33.23	24.80	316	0.06
41	14.06	33.22	30	14.21	33.21	24.78	318	0.10
51	13.13	33.26	50	13.20	33.25	25.02	295	0.16
62	11.84	33.35	75	10.80	33.39	25.58	242	0.22
72	11.06	33.37	100	9.49	33.48	25.87	214	0.28
82	10.44	33.43	150	8.59	33.86	26.31	172	0.38
93	9.96	33.44	200	8.00	33.97	26.49	155	0.46
102	9.42	33.49	250	7.45	34.04	26.62	143	0.54
127	8.85	33.71	300	6.99	34.08	26.72	133	0.61
157	8.53	33.88	400	6.13	34.15	26.89	117	0.74
206	7.92	33.98	500	5.55	34.21	27.01	106	0.86
265	7.31	34.05	600	5.16	34.31	27.13	94	0.96
371	6.34	34.14						
493	5.58	34.20						
621	5.08	34.34						

CREST; May 17, 1954; 0134, 0144 GCT; 34°00'N, 119°03'W; sounding, 55 fm; wind, 270°, force 1; weather, clear; sea, slight; wire angle, 04°, missing.

0	15.30	33.44	0	15.30	33.44	24.73	322	0.00
10	13.74	33.44	10	13.74	33.44	25.06	291	0.03
15	12.56	33.46	20	12.08	33.48	25.41	258	0.06
20	12.08	33.48	30	11.16	33.46	25.57	242	0.08
25	11.50	33.46	50	10.00	33.54	25.83	218	0.13
30	11.16	33.46	75	9.70	33.81	26.09	193	0.18
32	11.08	33.44						
42	10.50	33.44						
52	9.88	33.56						
62	9.46	33.63						
76	9.79	33.82						

85.39

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

85.45

133

CREST; May 17, 1954; 0609 GCT; 34° 46'N, 119° 32.5'W; sounding, 1000 fm; wind, 300°, force 2; weather, clear; sea, moderate; wire angle, 06°.

0	14.47	33.46	0	14.47	33.46	24.92	304	0.00
10	14.33	33.47	10	14.33	33.47	24.96	300	0.03
15	14.08	33.48	20	13.64	33.46	25.09	288	0.06
25	13.20	33.44	30	12.92	33.46	25.24	274	0.09
30	12.92	33.46	50	10.10	33.57	25.84	217	0.14
40	11.86	33.48	75	9.11	33.83	26.21	182	0.19
50	10.10	33.57	100	8.90	33.93	26.32	171	0.23
60	9.45	33.67	150	8.62	34.08	26.48	156	0.32
91	8.96	33.95	200	8.36	34.14	26.57	148	0.39
101	8.89	33.93	250	8.00	34.20	26.67	138	0.47
126	8.73	34.02	300	7.59	34.24	26.76	129	0.54
156	8.58	34.09	400	6.76	34.29	26.91	115	0.66
205	8.32	34.15	500	6.03	34.34	27.05	102	0.78
263	7.90	34.21	600	5.60	34.38	27.13	94	0.88
366	7.11	34.27						
486	6.10	34.34						
612	5.56	34.38						

85.55

CREST; May 17, 1954; 1205 GCT; 33° 26.5'N, 120° 13.5'W; sounding, 650 fm; wind, 320°, force 6; weather, cloudy; sea, high; wire angle, 23°.

0	12.94	33.50	0	12.94	33.50	25.26	272	0.00
10	12.85	33.49	10	12.85	33.49	25.27	271	0.03
20	12.26	33.40	20	12.26	33.40	25.32	266	0.05
29	12.14	33.37	30	12.10	33.37	25.33	265	0.08
44	11.56	33.44						

87.40

CREST; May 18, 1954; 0625 GCT; 33° 40.5'N, 118° 59'W; sounding, 470 fm; wind, calm; weather, fog; sea, calm; wire angle, 00°.

0	14.53	33.40	0	14.53	33.40	24.86	310	0.00
10	12.55	33.37	10	12.55	33.37	25.24	274	0.03
20	11.74	33.53	20	11.74	33.53	25.52	247	0.06
31	11.00	33.48	30	11.05	33.48	25.60	240	0.08
41	10.23	33.65	50	9.96	33.75	26.00	202	0.12
52	9.92	33.77	75	9.67	33.95	26.21	182	0.17
62	9.80	33.86	100	9.48	33.99	26.27	176	0.22
73	9.68	33.94	150	8.71	34.08	26.46	158	0.30
92	9.48	33.99	200	8.16	34.18	26.63	142	0.38
103	9.48	33.99	250	7.76	34.21	26.71	134	0.45
128	9.26	34.11	300	7.33	34.23	26.79	127	0.52
157	8.58	34.07	400	6.73	34.29	26.92	114	0.64
206	8.12	34.19	500	6.04	34.34	27.05	102	0.76
265	7.60	34.22	600	5.46	34.39	27.17	91	0.86
369	6.93	34.27						
489	6.11	34.33						
617	5.39	34.40						

87.50

CREST; May 18, 1954; 1156 GCT; 33° 20'N, 119° 39.5'W; sounding, 40 fm; wind, 260°, force 1; weather, fog; sea, slight; wire angle, 00°.

0	14.33	33.27	0	14.33	33.27	24.80	316	0.00
10	14.24	33.27	10	14.24	33.27	24.82	314	0.03
15	14.01	33.19	20	13.15	33.17	24.97	300	0.06
20	13.15	33.17	30	12.46	33.22	25.14	283	0.09
25	12.67	33.20	50	10.98	33.34	25.51	248	0.14
30	12.46	33.22						
35	12.59	33.31						
41	12.38	33.31						
51	10.86	33.35						
62	10.46	33.45						

OBSERVED			INTERPOLATED			COMPUTED			SIO CCOFI 5405
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; May 18, 1954; 1804 GCT; 33°00'N, 120°21.5'W; sounding, 350 fm; wind, 010°, force 3; weather, cloudy; sea, moderate; wire angle, 07°.

0	14.20	33.35	0	14.20	33.35	24.89	307	0.00
10	14.08	33.32	10	14.08	33.32	24.89	307	0.03
30	12.82	33.38	20	14.05	33.35	24.92	304	0.06
40	11.29	33.45	30	12.82	33.38	25.19	279	0.09
50	10.02	33.57	50	10.02	33.57	25.85	216	0.14
60	9.48	33.67	75	9.04	33.72	26.13	189	0.19
70	9.10	33.69	100	8.73	33.90	26.32	171	0.24
80	9.00	33.77	150	8.46	34.04	26.47	157	0.32
90	8.96	33.86	200	7.75	34.06	26.59	146	0.40
101	8.73	33.90	250	7.29	34.12	26.71	134	0.47
120	8.60	34.00	300	6.88	34.17	26.80	126	0.54
146	8.50	34.03	400	6.03	34.24	26.97	110	0.66
165	8.18	34.07	500	5.55	34.29	27.07	100	0.77
206	7.68	34.06						
286	7.00	34.16						
391	6.10	34.24						
513	5.50	34.29						

CREST; May 19, 1954; 0406 GCT; 32°19.5'N, 121°46.5'W; sounding, 2000 fm; wind, 340°, force 4; weather, clear; sea, rough; wire angle, 13°.

0	15.32	33.16	0	15.32	33.16	24.51	343	0.00
10	15.28	33.20	10	15.28	33.20	24.55	340	0.03
21	15.26	33.18	20	15.27	33.18	24.53	341	0.07
31	14.93	33.20	30	15.03	33.20	24.60	335	0.10
46	14.32	33.17	50	14.29	33.15	24.72	323	0.17
56	13.77	33.12	75	12.05	33.05	25.09	288	0.24
66	12.76	33.02	100	10.12	33.19	25.54	245	0.31
75	12.05	33.05	150	8.82	33.71	26.16	186	0.42
85	11.28	33.09	200	8.02	33.99	26.50	154	0.51
100	10.12	33.19	250	7.39	34.04	26.63	142	0.58
108	10.03	33.28	300	6.97	34.08	26.72	133	0.66
161	8.64	33.80	400	6.33	(34.21)	(26.91)	(115)	(0.78)
214	7.84	34.03	500	5.87	(34.32)	(27.05)	(102)	(0.90)
277	7.14	34.05	600	5.38	(34.39)	(27.17)	(91)	(1.00)
388	6.40	34.20						
515	5.78	-						
650	5.14	34.42						

CREST; May 21, 1954; 1100 GCT; 33°28.5'N, 117°47'W; sounding, 75 fm; wind, 150°, force 3; weather, cloudy; sea, slight; wire angle, 04°.

0	16.60	33.51	0	16.60	33.51	24.49	345	0.00
10	14.18	33.54	10	14.18	33.54	25.04	293	0.03
15	13.74	33.56	20	12.60	33.47	25.31	267	0.06
20	12.60	33.47	30	11.23	33.62	25.68	232	0.08
25	12.15	33.58	50	10.41	33.73	25.91	210	0.13
30	11.23	33.62						
35	10.96	33.64						
40	10.72	33.67						
50	10.41	33.73						
60	10.04	33.83						

90.28

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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	$\Delta D$ dyn. m

90.37

CREST; May 20, 1954; 1927 GCT; 33°11'N, 118°23.5'W; sounding, 650 fm; wind, 260°, force 1; weather, cloudy; sea, slight; wire angle, 01°.

0	15.86	33.44	0	15.86	33.44	24.60	335	0.00
10	14.56	33.37	10	14.56	33.37	24.83	313	0.03
30	12.44	33.38	20	13.80	33.37	24.99	298	0.06
40	11.61	33.41	30	12.44	33.38	25.27	271	0.09
50	11.24	33.48	50	11.24	33.48	25.57	242	0.14
61	10.78	33.48	75	9.81	33.53	25.86	215	0.20
70	9.97	33.49	100	9.37	33.97	26.27	176	0.25
81	9.65	33.60	150	9.36	34.14	26.41	163	0.34
90	9.38	33.68	200	8.73	34.22	26.57	148	0.42
101	9.38	33.97	250	8.12	34.22	26.66	139	0.49
126	9.46	34.02	300	7.62	34.23	26.75	130	0.56
156	9.27	34.16	400	6.72	34.28	26.91	115	0.69
207	8.65	34.22	500	5.98	34.34	27.06	101	0.80
266	7.96	34.22	600	5.53	34.36	27.13	94	0.90
372	6.98	34.26						
494	5.99	34.34						
623	5.45	34.36						

90.55

CREST; May 20, 1954; 0856 GCT; 32°35'N, 119°36.5'W; sounding, 460 fm; wind, 310°, force 4; weather, cloudy; sea, moderate; wire angle, 07°.

0	14.78	33.26	0	14.78	33.26	24.70	325	0.00
10	14.75	33.31	10	14.75	33.31	24.74	321	0.03
15	14.61	33.22	20	14.52	33.17	24.69	326	0.06
20	14.52	33.17	30	14.40	33.29	24.80	316	0.10
25	14.46	33.27	50	13.31	33.26	25.00	297	0.16
30	14.40	33.29	75	11.42	33.31	25.41	258	0.23
35	14.29	33.24	100	9.81	33.55	25.87	214	0.29
45	13.58	33.26	150	9.11	33.77	26.16	186	0.39
55	12.53	33.26	200	8.39	34.02	26.47	157	0.48
65	11.88	33.27						
75	11.42	33.31						
96	9.97	33.51						
111	9.42	33.62						
142	9.20	33.73						
172	8.64	33.91						
207	8.33	34.04						

90.70

CREST; May 20, 1954; 0000 GCT; 32°04.5'N, 120°39'W; sounding, 2050 fm; wind, 350°, force 4; weather, cloudy; sea, moderate; wire angle, 28°.

0	14.88	33.26	0	14.88	33.26	24.68	327	0.00
10	14.82	33.24	10	14.82	33.24	24.68	327	0.03
24	14.80	33.22	20	14.80	33.22	24.66	329	0.07
50	14.21	33.22	30	14.78	33.22	24.67	328	0.10
59	13.70	-	50	14.21	33.22	24.79	317	0.16
69	12.59	33.28	75	12.10	33.28	25.26	272	0.24
82	11.58	33.28	100	10.39	33.40	25.66	234	0.30
99	10.42	-	150	8.90	33.72	26.15	187	0.41
122	9.64	-	200	8.33	(33.99)	(26.45)	(159)	(0.50)
147	8.94	33.71	250	7.82	(34.07)	(26.59)	(146)	(0.57)
195	8.36	33.98	300	7.21	(34.15)	(26.74)	(131)	(0.64)
265	7.65	-	400	6.56	(34.26)	(26.92)	(114)	(0.77)
361	6.78	-	500	5.99	34.35	27.06	101	(0.89)
489	6.02	34.34	600	5.43	34.42	27.19	89	(0.99)
664	5.14	34.46	700	5.00	34.46	27.27	81	(1.08)
885	4.32	34.45	800	4.60	34.45	27.31	77	(1.17)
1186	3.55	34.52	1000	4.00	34.48	27.39	70	(1.33)

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

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CREST; May 19, 1954; 1351 GCT; 31° 26'N, 121° 58.5'W; sounding, 2000 fm; wind, 350°, force 5; weather, partly cloudy; sea, rough; wire angle, 27°.						9090		
0	15.82	33.22	0	15.82	33.22	24.44	350	0.00
10	15.78	33.21	10	15.78	33.21	24.44	350	0.04
24	15.76	33.20	20	15.76	33.20	24.44	350	0.07
33	15.22	33.22	30	15.60	33.21	24.48	346	0.10
42	14.58	33.20	50	14.50	33.27	24.77	319	0.17
51	14.49	33.28	75	12.83	33.24	25.08	289	0.25
61	14.13	33.26	100	10.99	33.22	25.41	258	0.32
101	10.98	33.22	150	9.03	33.66	26.09	193	0.43
122	9.66	33.46	200	8.15	34.00	26.49	155	0.52
149	9.05	33.66	250	7.54	34.08	26.64	141	0.60
197	8.18	34.00	300	6.98	34.11	26.74	131	0.66
267	7.37	34.09	400	6.04	34.17	26.91	115	0.79
363	6.36	34.14	500	5.48	34.25	27.05	102	0.91
491	5.50	34.25	600	5.10	34.32	27.15	92	1.01
665	4.90	34.36	700	4.80	34.38	27.23	85	1.11
887	4.16	34.47	800	4.48	34.43	27.30	78	1.20
1187	3.46	34.58	1000	3.87	34.52	27.44	65	1.36

CREST; May 21, 1954; 1752 GCT; 32° 49.5'N, 117° 31.5'W; sounding, 450 fm; wind, 190°, force 3; weather, cloudy; sea, moderate; wire angle, 15°.						9330		
0	16.13	33.47	0	16.13	33.47	24.56	339	0.00
10	15.58	33.40	10	15.58	33.40	24.63	332	0.03
15	15.20	33.40	20	15.02	33.41	24.76	320	0.07
20	15.02	33.41	30	14.12	33.33	24.89	307	0.10
30	14.12	33.33	50	11.04	33.35	25.51	248	0.15
40	12.52	33.40	75	9.40	33.55	25.94	207	0.21
50	11.04	33.35	100	9.62	33.82	26.12	190	0.26
65	10.08	33.33	150	8.80	34.06	26.43	161	0.35
79	9.32	33.64	200	8.66	34.27	26.62	143	0.43
99	9.64	33.81	250	8.61	34.23	26.60	145	0.50
123	9.06	33.98	300	8.34	34.29	26.69	136	0.57
152	8.80	34.06	400	7.21	34.34	26.89	117	0.71
200	8.66	34.27	500	6.42	34.34	27.00	107	0.83
257	8.60	34.23a)	600	(5.79)	(34.38)	(27.11)	(96)	(0.93)
358	7.86	34.34						
474	6.58	34.34						
599	5.80	34.38						

CREST; May 22, 1954; 0530 GCT; 32° 09.5'N, 118° 53'W; sounding, 770 fm; wind, 330°, force 4; weather, cloudy; sea, very rough; wire angle, 20°.						9350		
0	14.40	33.30	0	14.40	33.30	24.81	315	0.00
10	14.34	33.31	10	14.34	33.31	24.83	313	0.03
20	14.33	33.31	20	14.33	33.31	24.83	313	0.06
30	13.34	33.38	30	13.34	33.38	25.09	288	0.09
44	12.30	33.30	50	11.87	33.31	25.32	266	0.15
58	11.32	33.34	75	10.11	33.44	25.74	226	0.21
67	10.58	33.39	100	9.29	33.63	26.02	200	0.26
78	10.00	33.46	150	8.74	34.02	26.41	163	0.36
91	9.58	33.53	200	8.45	34.18	26.58	146	0.43
114	9.00	33.77	250	7.82	34.23	26.72	133	0.51
142	8.78	33.98	300	7.39	34.22	26.77	128	0.57
170	8.72	34.10	400	6.68	34.28	26.92	114	0.70
225	8.10	34.23	500	6.03	34.34	27.05	102	0.82
281	7.54	34.22	600	5.49	34.39	27.16	92	0.92
405	6.65	34.28						
537	5.81	34.36						
674	5.06	34.42						

a) Acceptance of this value results in an unusual density structure.

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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

93.70

CREST; May 22, 1954; 1610 GCT; 31°28'N, 120°17'W; sounding, 2000 fm; wind, 320°, force 4; weather, cloudy; sea, very rough; wire angle, 20°.

0	14.58	33.33	0	14.58	33.33	24.80	316	0.00
10	14.52	33.30	10	14.52	33.30	24.79	317	0.03
30	14.52	33.31	20	14.52	33.31	24.79	317	0.06
44	13.48	33.28	30	14.52	33.31	24.79	317	0.10
49	13.04	33.28	50	13.00	33.28	25.08	289	0.16
58	12.26	33.28	75	10.66	33.43	25.63	237	0.22
68	11.24	33.35	100	9.67	33.48	25.84	217	0.28
79	10.38	33.44	150	8.78	33.99	26.38	166	0.38
92	9.79	33.44	200	8.42	34.08	26.51	153	0.46
115	9.52	33.63	250	7.90	34.15	26.64	141	0.53
144	8.88	33.99	300	7.40	34.19	26.75	130	0.60
171	8.62	34.01	400	6.71	34.26	26.90	116	0.73
226	8.19	34.13	500	5.99	34.33	27.05	102	0.85
293	7.45	34.18	600	5.49	34.36	27.13	94	0.95
393	6.78	34.26						
522	5.84	34.34						
653	5.28	34.38						

93.90

CREST; May 23, 1954; 0145 GCT; 30°50'N, 121°35'W; sounding, 2250 fm; wind, 320°, force 4; weather, cloudy; sea, very rough; wire angle, 22°.

0	16.12	33.26	0	16.12	33.26	24.40	354	0.00
11	16.06	33.27	10	16.08	33.27	24.42	352	0.04
30	16.01	33.26	20	16.02	33.27	24.43	351	0.07
44	15.88	33.22	30	16.01	33.26	24.43	351	0.11
52	15.39	33.20	50	15.59	33.21	24.48	346	0.18
63	14.68	33.12	75	13.43	33.11	24.87	309	0.26
71	13.86	33.11	100	11.40	33.14	25.28	270	0.33
81	12.92	33.12	150	9.00	33.61	26.05	197	0.45
95	11.81	33.13	200	8.39	33.84	26.33	170	0.54
104	11.10	33.16	250	7.84	34.04	26.56	148	0.62
127	9.59	33.37	300	7.53	34.15	26.70	135	0.70
156	8.92	33.68	400	6.91	34.23	26.85	121	0.83
207	8.34	33.86	500	6.09	34.27	26.99	108	0.95
267	7.72	34.10	600	5.59	34.32	27.09	98	1.06
374	7.10	34.22						
497	6.11	34.27						
628	5.46	34.33						

97.40

CREST; May 24, 1954; 1003 GCT; 31°55.5'N, 117°49.5'W; sounding, 600 fm; wind, 290°, force 3; weather, cloudy; sea, moderate; wire angle, 08°.

0	16.12	33.35	0	16.12	33.35	24.47	347	0.00
10	16.09	33.36	10	16.09	33.36	24.49	345	0.04
20	15.50	33.29	20	15.50	33.29	24.57	338	0.07
30	14.38	33.28	30	14.38	33.28	24.80	316	0.10
40	13.58	33.22	50	12.16	33.17	25.16	281	0.16
50	12.16	33.17	75	10.38	33.38	25.64	236	0.23
60	11.43	33.28	100	10.13	33.66	25.90	211	0.28
70	10.34	33.33	150	8.80	33.81	26.24	179	0.38
80	10.38	33.42	200	8.73	34.14	26.51	153	0.47
90	10.28	33.48	250	7.98	34.12	26.61	144	0.54
100	10.13	33.66	300	7.58	34.17	26.70	135	0.61
126	9.65	33.72	400	7.00	34.31	26.90	116	0.74
204	8.72	34.14	500	6.18	34.34	27.03	104	0.86
263	7.80	34.12	600	5.59	34.37	27.13	94	0.97
368	7.28	34.29						
488	6.27	34.34						
615	5.49	34.38						

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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; May 23, 1954; 2135 GCT; 31°13'N, 119°09'W; sounding, 2000 fm; wind, 330°, force 3; weather, cloudy; sea, rough; wire angle, 19°.

0	16.19	33.38	0	16.19	33.38	24.48	346	0.00
10	16.03	33.38	10	16.03	33.38	24.52	342	0.03
20	15.98	33.39	20	15.98	33.39	24.54	340	0.07
30	15.05	33.35	30	15.05	33.35	24.71	324	0.10
40	14.48	33.30	50	13.30	33.32	25.05	292	0.16
49	13.48	33.32	75	10.26	33.59	25.83	218	0.23
58	12.33	33.37	100	9.23	33.71	26.09	193	0.28
68	10.82	33.52	150	8.42	33.98	26.43	161	0.37
77	10.14	33.60	200	7.73	34.10	26.63	142	0.45
97	9.30	33.69	250	7.27	34.14	26.73	132	0.52
120	8.88	33.84	300	6.81	34.16	26.80	126	0.58
148	8.47	33.97	400	6.09	34.21	26.94	112	0.71
194	7.80	34.09	500	5.68	34.28	27.05	102	0.82
250	7.27	34.14						
349	6.40	34.18						
465	5.79	34.25						
588	5.36	34.35						

CREST; May 23, 1954; 1136 GCT; 30°34'N, 120°31'W; sounding, 2050 fm; wind, 320°, force 3; weather, cloudy; sea, rough; wire angle, 06°.

0	15.76	33.30	0	15.76	33.30	24.52	342	0.00
10	15.72	33.33	10	15.72	33.33	24.55	340	0.03
30	15.66	33.31	20	15.69	33.32	24.55	340	0.07
40	15.39	33.33	30	15.66	33.31	24.55	340	0.10
50	13.62	33.35	50	13.62	33.35	25.01	296	0.17
62	12.32	33.32	75	10.99	33.41	25.56	243	0.23
72	11.10	33.38	100	9.78	33.64	25.95	206	0.29
82	10.76	33.49	150	8.99	33.98	26.34	169	0.38
92	9.86	33.55	200	8.67	34.14	26.52	152	0.47
101	9.76	33.64	250	7.80	34.17	26.67	138	0.54
126	9.22	33.79	300	7.21	34.18	26.77	128	0.61
156	8.96	34.02	400	6.49	34.24	26.91	115	0.74
207	8.49	34.15	500	5.98	34.32	27.04	103	0.85
267	7.62	34.17	600	5.41	34.37	27.15	92	0.96
372	6.66	34.22						
492	6.00	34.32						
620	5.30	34.38						

HORIZON; May 21, 1954; 1024 GCT; 31°42.5'N, 116°43.5'W; sounding, 60 fm; wind, calm; weather, overcast; sea, calm; wire angle, 00°.

0	14.64	33.66	0	14.64	33.66	25.04	293	0.00
2	14.62	33.66	10	13.72	33.48	25.09	288	0.03
4	14.60	33.63	20	11.99	33.49	25.44	255	0.06
6	14.60	33.54	30	11.40	33.61	25.64	236	0.08
8	14.48	33.55	50	10.29	33.64	25.86	215	0.13
10	13.72	33.48	75	9.69	33.68	25.99	202	0.18
15	12.66	33.46	100	9.36	33.77	26.12	190	0.23
20	11.99	33.49						
25	11.40	33.62						
31	11.40	33.61						
36	10.83	33.58						
41	10.65	33.65						
46	10.46	33.60						
51	10.24	33.64						
71	9.75	33.67						
102	9.34	33.78						

100.29

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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

100.50

HORIZON; May 20, 1954; 2350 GCT; 31°01.5'N, 118°08'W; sounding, 975 fm; wind, 320°, force 3; weather, overcast; sea, moderate; wire angle, 16°.

0	15.98	33.31	0	15.98	33.31	24.47	347	0.00
10	15.86	33.32	10	15.86	33.32	24.51	343	0.04
30	15.37	33.28	20	15.69	33.30	24.53	341	0.07
40	14.64	33.21	30	15.37	33.28	24.59	336	0.10
50	13.50	33.02	50	13.50	33.02	24.78	318	0.17
60	13.14	33.10	75	11.93	33.11	25.16	281	0.24
70	12.22	33.10	100	10.67	33.22	25.47	252	0.31
80	11.69	33.12	150	9.16	33.65	26.06	196	0.42
108	10.34	33.30	200	8.53	33.85	26.31	172	0.52
147	9.20	33.64	250	7.78	34.04	26.57	148	0.60
194	8.62	33.82	300	7.29	34.14	26.72	133	0.67
290	7.37	34.13	400	6.57	34.20	26.87	119	0.80
433	6.36	34.22	500	5.89	34.28	27.02	105	0.92
625	5.26	34.42	600	5.33	34.40	27.18	90	1.02
868	4.35	34.47	700	4.93	34.45	27.27	81	1.12
1170	3.67	34.47	800	4.58	34.47	27.32	76	1.20
			1000	4.00	34.42	27.35	74	1.37

100.70

HORIZON; May 20, 1954; 1434 GCT; 30°19.5'N, 119°28'W; sounding, 2100 fm; wind, 320°, force 4; weather, overcast; sea, slight; wire angle, 18°.

0	15.72	33.33	0	15.72	33.33	24.55	340	0.00
10	15.71	33.32	10	15.71	33.32	24.54	340	0.03
30	15.62	33.27	20	15.70	33.29	24.52	342	0.07
50	14.72	33.22	30	15.62	33.27	24.52	342	0.10
68	13.68	33.27	50	14.72	33.22	24.68	327	0.17
79	12.54	33.22	75	13.06	33.26	25.05	292	0.25
88	11.04	33.09	100	10.20	33.19	25.53	246	0.32
96	10.48	33.15	150	8.80	33.73	26.18	184	0.42
116	9.63	33.39	200	8.17	33.99	26.48	156	0.51
135	9.10	33.60	250	7.79	34.10	26.62	143	0.59
190	8.24	33.96	300	7.39	34.18	26.74	131	0.66
285	7.53	34.16	400	6.61	34.27	26.92	114	0.79
425	6.46	34.29	500	6.01	34.32	27.04	103	0.90
614	5.42	34.36	600	5.50	34.35	27.12	95	1.01
855	4.38	34.47	700	5.00	34.40	27.22	86	1.11
1152	3.50	34.54	800	4.57	34.45	27.31	77	1.20
			1000	3.92	34.51	27.43	66	1.36

100.90

HORIZON; May 20, 1954; 0516 GCT; 29°41.5'N, 120°44.5'W; sounding, 2250 fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 32°.

0	15.8	33.22	0	15.8	33.22	24.45	349	0.00
10	15.90	33.15	10	15.90	33.15	24.37	357	0.04
36	15.18	33.11	20	15.64	33.14	24.42	352	0.07
53	14.77	33.12	30	15.34	33.12	24.47	347	0.11
70	14.48	33.22	50	14.82	33.11	24.58	337	0.17
88	15.42	33.68	75	14.41	33.32	24.82	314	0.26
96	15.48	33.66	100	15.20	33.61	24.88	308	0.34
104	14.44	33.53	150	10.45	33.33	25.59	240	0.47
113	13.26	33.46	200	8.69	33.70	26.17	185	0.58
129	11.70	33.31	250	7.92	33.95	26.48	156	0.67
153	10.28	33.33	300	7.38	34.03	26.62	143	0.74
193	8.82	33.64	400	6.53	34.08	26.78	128	0.88
292	7.45	34.02	500	5.84	34.17	26.94	112	1.01
432	6.30	34.11	600	5.24	34.26	27.08	99	1.12
629	5.11	34.28	700	4.81	34.32	27.18	90	1.22
853	4.32	34.38	800	4.50	34.36	27.25	83	1.32
1149	3.55	34.46	1000	3.90	34.43	27.37	72	1.49

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; May 18, 1954; 1504 GCT; 31°05'N, 116°25'W; sounding, 40 fm; wind, calm;  
weather, overcast; sea, calm; wire angle, 0°.

0	13.12	33.56	0	13.12	33.56	25.27	271	0.00
5	12.76	33.60	10	12.42	33.58	25.43	256	0.03
10	12.42	33.58	20	11.80	33.57	25.54	245	0.05
15	12.12	33.56	30	10.83	33.61	25.74	226	0.08
20	11.80	33.57	50	10.20	33.67	25.90	211	0.12
25	10.96	33.62						
30	10.83	33.61						
35	10.76	33.63						
41	10.67	33.61						
46	10.33	33.64						
51	10.16	33.68						
57	9.86	33.72						
62	9.74	33.73						

103.30

HORIZON; May 18, 1954; 2003 GCT; 30°46.5'N, 117°02.5'W; sounding, 1000 fm;  
wind, 200°, force 1; weather, overcast; sea, moderate; wire angle, 22°.

0	16.16	33.41	0	16.16	33.41	24.51	343	0.00
10	15.74	33.40	10	15.74	33.40	24.60	335	0.03
20	15.35	33.40	20	15.35	33.40	24.68	327	0.07
29	14.08	33.36	30	14.02	33.36	24.94	302	0.10
39	13.50	33.33	50	12.20	33.29	25.24	274	0.16
48	12.45	33.28	75	10.71	33.55	25.72	228	0.22
58	11.48	33.49	100	9.78	33.84	26.10	192	0.27
67	11.16	33.48	150	8.78	33.99	26.38	166	0.36
94	9.90	33.80	200	7.89	34.04	26.56	148	0.44
139	9.02	33.98	250	7.72	34.19	26.70	135	0.52
183	7.92	34.01	300	7.48	34.24	26.77	128	0.58
228	7.81	34.13	400	6.81	34.30	26.91	115	0.71
273	7.60	34.22	500	6.13	34.34	27.04	103	0.83
366	7.09	34.28						
460	6.38	34.33						
560	5.77	34.35						

103.40

HORIZON; May 19, 1954; 0600 GCT; 30°05'N, 118°26.5'W; sounding, 1900 fm; wind,  
290°, force 2; weather, overcast; sea, smooth; wire angle, 10°.

0	16.06	33.22	0	16.06	33.22	24.39	355	0.00
10	15.89	33.21	10	15.89	33.21	24.42	352	0.04
30	15.36	33.21	20	15.62	33.21	24.48	346	0.07
50	14.33	33.10	30	15.36	33.21	24.54	340	0.10
70	13.34	32.99	50	14.33	33.10	24.67	328	0.17
90	12.53	33.15	75	13.29	33.00	24.81	315	0.25
110	11.42	33.18	100	11.95	33.16	25.19	279	0.33
130	10.38	33.31	150	9.68	33.60	25.93	208	0.45
150	9.68	33.60	200	8.78	33.96	26.36	167	0.55
170	8.88	33.71	250	8.29	34.14	26.58	146	0.63
200	8.78	33.96	300	8.06	34.23	26.68	137	0.70
248	8.30	34.14	400	7.03	34.29	26.88	118	0.83
296	8.09	34.22	500	6.27	34.33	27.01	106	0.95
395	7.11	34.29	600	(5.72)	(34.38)	(27.12)	(95)	(1.06)
494	6.31	34.33						
596	5.74	34.38						

103.60

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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

103.80

HORIZON; May 19, 1954; 1445 GCT; 29°24'N, 119°48'W; sounding, 2100 fm; wind, 320°, force 3; weather, overcast; sea, smooth; wire angle, 11°.

0	16.87	33.45	0	16.87	33.45	24.38	356	0.00
10	16.86	33.45	10	16.86	33.45	24.38	356	0.04
45	16.40	33.32	20	16.82	33.45	24.39	355	0.07
65	15.59	33.21	30	16.79	33.45	24.40	354	0.11
100	14.68	33.22	50	16.00	33.27	24.44	350	0.18
120	13.65	33.30	75	15.30	33.21	24.55	340	0.26
135	12.03	33.31	100	14.68	33.22	24.69	326	0.35
165	10.76	33.42	150	11.36	33.35	25.45	254	0.49
190	9.46	33.68	200	9.29	33.74	26.11	191	0.61
209	9.10	33.78	250	8.38	33.99	26.44	160	0.70
233	8.57	33.95	300	7.72	34.05	26.59	146	0.78
277	8.09	34.03	400	6.61	34.14	26.82	124	0.92
346	7.14	34.08	500	5.86	34.24	26.99	108	1.04
454	6.18	34.20	600	5.35	34.31	27.11	96	1.15
564	5.52	34.29						
676	5.05	34.36						

107.35

HORIZON; May 18, 1954; 0813 GCT; 30°19'N, 116°34'W; sounding, 900 fm; wind, 290°, force 1; weather, overcast; sea, calm; wire angle, 05°.

0	16.0	33.54	0	16.0	33.54	24.65	330	0.00
20	13.62	33.52	10	15.94	33.54	24.66	329	0.03
25	11.82	33.54	20	13.62	33.52	25.14	283	0.06
29	11.45	33.49	30	11.41	33.50	25.55	244	0.09
31	11.38	33.52	50	10.09	33.57	25.84	217	0.14
33	11.16	33.53	75	9.36	33.76	26.11	191	0.19
36	10.88	33.58	100	9.10	33.93	26.29	174	0.23
38	10.78	33.53	150	8.82	34.09	26.46	158	0.32
41	10.60	33.54	200	8.51	34.19	26.58	146	0.40
46	10.22	33.57	250	8.12	34.27	26.70	135	0.47
51	10.05	33.57	300	7.70	34.33	26.81	125	0.54
61	9.69	33.64	400	6.84	34.39	26.98	109	0.66
71	9.42	33.72	500	6.11	34.41	27.09	98	0.77
100	9.10	33.93	600	5.53	34.42	27.17	91	0.87
210	8.44	34.21						
408	6.80	34.39						
610	5.50	34.42						

107.50

HORIZON; May 18, 1954; 0025 GCT; 29°58.5'N, 117°28.5'W; sounding, 1100 fm; wind, 320°, force 3; weather, overcast; sea, moderate; wire angle, 14°.

0	16.15	33.22	0	16.15	33.22	24.37	357	0.00
10	16.06	33.18	10	16.06	33.18	24.36	358	0.04
35	16.05	33.22	20	16.06	33.20	24.37	357	0.07
60	14.66	33.08	30	16.06	33.22	24.39	355	0.11
75	13.62	33.08	50	15.31	33.16	24.51	343	0.18
95	12.69	33.09	75	13.62	33.08	24.80	316	0.26
110	11.78	33.10	100	12.41	33.09	25.05	292	0.34
124	10.60	33.18	150	9.51	33.38	25.79	222	0.47
143	9.72	33.32	200	8.49	33.88	26.34	169	0.56
162	9.22	33.50	250	7.80	34.00	26.54	150	0.65
191	8.60	33.82	300	7.19	34.06	26.67	138	0.72
219	8.30	33.95	400	6.63	34.18	26.84	122	0.86
331	6.95	34.10	500	6.21	34.28	26.98	109	0.98
438	6.49	34.23	600	5.72	34.33	27.08	99	1.09
546	6.01	34.31	700	(5.28)	(34.36)	(27.16)	(92)	(1.19)
686	5.34	34.36						

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

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HORIZON; May 17, 1954; 1506 GCT; 29°15'N, 118°45'W; sounding, 2000 fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 26°.							107.70	
0	16.0	33.36	0	16.0	33.36	24.51	343	0.00
10	16.09	33.35	10	16.09	33.35	24.48	346	0.04
52	15.62	33.34	20	(16.03)	(33.35)	(24.49)	(345)	(0.07)
83	14.80	33.32	30	(15.94)	(33.34)	(24.51)	(343)	(0.10)
92	13.82	33.17	50	(15.67)	(33.34)	(24.57)	(338)	(0.17)
100	13.24	33.07	75	15.07	33.33	24.69	326	(0.26)
110	13.14	33.12	100	13.24	33.07	24.87	309	(0.34)
121	12.26	33.15	150	10.59	33.30	25.55	244	(0.48)
140	11.15	33.24	200	8.77	33.74	26.19	184	(0.58)
150	10.59	33.30	250	7.87	33.98	26.51	153	(0.67)
157	9.72	33.32	300	7.04	34.01	26.66	139	(0.74)
176	9.15	33.52	400	6.84	34.25	26.87	119	(0.88)
240	8.08	33.97	500	6.22	34.28	26.98	109	(1.00)
334	6.90	34.03	600	5.45	34.32	27.11	96	(1.11)
441	6.76	34.28						
553	5.75	34.29						
648	5.20	34.36						

HORIZON; May 16, 1954; 0020 GCT; 29°50.5'N, 115°52.5'W; sounding, 58 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 13°.							110.33	
0	15.7	33.45	0	15.7	33.45	24.64	331	0.00
5	15.46	33.42	10	15.26	33.42	24.72	323	0.03
10	15.26	33.42	20	14.42	33.39	24.88	308	0.06
15	15.23	33.44	30	12.70	33.17	25.06	291	0.09
20	14.42	33.39	50	10.36	33.17	25.48	251	0.15
25	13.52	33.22	75	9.44	33.55	25.93	208	0.21
30	12.70	33.17						
35	11.84	33.21						
40	10.94	33.13						
45	10.48	33.13						
50	10.36	33.17						
55	10.21	33.23						
60	10.26	33.47						
65	9.88	33.40						
70	9.62	33.57						
80	9.34	33.53						
90	9.32	33.81						

HORIZON; May 16, 1954; 0502 GCT; 29°36.5'N, 116°20'W; sounding, 1450 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 25°.							110.40	
0	16.0	33.39	0	16.0	33.39	24.53	341	0.00
10	16.00	33.37	10	16.00	33.37	24.52	342	0.03
24	15.96	33.39	20	15.98	33.39	24.54	340	0.07
33	15.86	33.37	30	15.89	33.38	24.55	340	0.10
43	14.92	33.27	50	14.50	33.23	24.74	321	0.17
52	14.37	33.22	75	12.69	33.14	25.03	294	0.25
70	13.12	33.17	100	10.80	33.15	25.39	260	0.32
84	11.62	33.03	150	9.25	33.68	26.07	195	0.43
100	10.80	33.15	200	8.89	34.04	26.40	164	0.52
152	9.24	33.68	250	8.51	34.16	26.56	148	0.60
220	8.76	34.11	300	8.05	34.23	26.68	137	0.68
304	8.02	34.23	400	7.01	34.26	26.86	120	0.81
432	6.71	34.27	500	6.29	34.30	26.98	109	0.93
562	5.94	34.34	600	5.74	34.36	27.10	97	1.04
739	5.04	34.42	700	5.24	34.41	27.20	88	1.14
922	4.25	34.46	800	4.77	34.43	27.27	81	1.23
1164	3.58	34.54	1000	4.03	34.48	27.39	70	1.40

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

110.60

HORIZON; May 16, 1954; 1404 GCT;  $28^{\circ}59.5'N$ ,  $117^{\circ}35.5'W$ ; sounding, 2000 fm; wind,  $320^{\circ}$ , force 5; weather, overcast; sea, moderate; wire angle,  $30^{\circ}$ .

0	16.9	33.41	0	16.9	33.41	24.34	360	0.00
10	16.98	33.41	10	16.98	33.41	24.32	361	0.04
23	16.99	33.42	20	17.00	33.42	24.32	361	0.07
50	16.10	33.37	30	16.64	33.41	24.40	354	0.11
59	16.07	33.39	50	16.10	33.37	24.49	345	0.18
68	16.86	33.78	75	16.41	33.75	24.71	324	0.26
81	15.62	33.68	100	12.60	33.32	25.19	279	0.34
98	12.86	33.40	150	9.69	33.60	25.93	208	0.46
120	11.14	33.30	200	8.68	34.06	26.45	159	0.55
145	9.84	33.54	250	8.35	34.22	26.63	142	0.63
191	8.76	34.00	300	7.93	34.25	26.72	133	0.70
258	8.29	34.22	400	6.90	34.29	26.89	117	0.83
350	7.49	34.27	500	6.05	34.35	27.05	102	0.95
472	6.22	34.33	600	5.53	34.42	27.17	91	1.05
638	5.38	34.44	700	5.10	34.47	27.27	81	1.14
849	4.57	34.51	800	4.73	34.50	27.33	75	1.23
1144	3.64	34.54	1000	4.08	34.53	27.43	66	1.39

110.80

HORIZON; May 16, 1954; 2333 GCT;  $28^{\circ}17'N$ ,  $118^{\circ}58'W$ ; sounding, 2175 fm; wind,  $320^{\circ}$ , force 4; weather, partly cloudy; sea, moderate; wire angle,  $25^{\circ}$ .

0	17.2	33.51	0	17.2	33.51	24.34	360	0.00
10	17.28	33.60	10	17.28	33.60	24.39	355	0.04
43	16.92	33.58	20	17.27	33.59	24.39	355	0.07
53	16.73	33.77	30	17.20	33.58	24.40	354	0.11
63	15.56	33.55	50	16.26	33.75	24.75	320	0.17
73	14.64	33.42	75	14.61	33.42	24.86	310	0.25
82	14.52	33.60	100	12.00	33.42	25.38	260	0.33
93	13.48	33.48	150	9.62	33.56	25.91	210	0.44
102	11.80	33.40	200	8.82	33.90	26.31	172	0.54
115	10.46	33.28	250	8.28	34.13	26.57	148	0.62
128	10.05	33.38	300	7.79	34.24	26.73	132	0.70
216	8.64	33.98	400	6.95	34.31	26.90	116	0.83
313	7.66	34.25	500	6.23	34.37	27.05	102	0.94
448	6.61	34.34	600	5.63	34.42	27.16	92	1.04
678	5.22	34.45	700	5.13	34.46	27.25	83	1.14
962	4.13	34.53	800	4.70	34.49	27.33	75	1.23
1309	3.20	34.59	1000	4.03	34.54	27.44	65	1.39

113.35

HORIZON; May 15, 1954; 1705 GCT;  $29^{\circ}18'N$ ,  $115^{\circ}39'W$ ; sounding, 400 fm; wind,  $300^{\circ}$ , force 3; weather, overcast; sea, slight; wire angle,  $39^{\circ}$ .

0	14.9	33.50	0	14.9	33.50	24.86	310	0.00
10	14.33	33.44	10	14.33	33.44	24.93	303	0.03
14	14.14	33.46	20	13.23	33.40	25.13	284	0.06
18	13.82	33.40	30	12.60	33.49	25.32	266	0.09
22	12.93	33.40	50	10.52	33.52	25.73	227	0.14
25	12.92	33.46	75	9.63	33.92	26.19	184	0.19
29	12.66	33.48	100	9.31	33.97	26.28	175	0.23
33	12.44	33.51	150	8.93	34.15	26.48	156	0.32
37	12.01	33.50	200	8.83	34.28	26.60	145	0.39
41	11.40	33.50	250	8.78	34.36	26.67	138	0.47
48	10.72	33.51	300	8.48	34.36	26.72	133	0.54
61	9.55	33.64						
73	9.64	33.91						
113	9.12	34.00						
160	8.90	34.19						
265	8.74	34.36						
376	7.50	34.34						

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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	$\Delta D$ dyn. m

HORIZON; May 15, 1954; 0733 GCT; 28°44'N, 116°38.5'W; sounding, 2200 fm; wind, 320°, force 2; weather, overcast; sea, smooth; wire angle, 12°.

0	17.0	33.46	0	17.0	33.46	24.35	359	0.00
10	17.02	33.48	10	17.02	33.48	24.36	358	0.04
40	16.29	33.35	20	17.02	33.48	24.36	358	0.07
50	15.55	33.30	30	17.00	33.48	24.37	357	0.11
60	14.37	33.26	50	15.55	33.30	24.56	339	0.18
70	13.56	33.19	75	13.20	33.17	24.96	300	0.26
80	12.81	33.16	100	11.52	33.21	25.31	267	0.33
90	12.05	33.15	150	10.71	33.96	26.04	198	0.45
100	11.52	33.21	200	9.61	34.06	26.30	173	0.54
110	11.40	33.26	250	8.49	34.10	26.51	153	0.62
119	11.62	33.56	300	7.81	34.13	26.64	141	0.70
138	10.80	33.76	400	7.06	34.28	26.86	120	0.84
156	10.65	33.98	500	6.39	34.32	26.99	108	0.96
193	9.78	34.05						
285	7.94	34.12						
429	6.87	34.30						
581	5.88	34.34						

HORIZON; May 14, 1954; 2151 GCT; 28°02'N, 117°55.5'W; sounding, 1725 fm; wind, 320°, force 1; weather, overcast; sea, moderate; wire angle, 08°.

0	17.3	33.41	0	17.3	33.41	24.24	369	0.00
10	16.98	33.44	10	16.98	33.44	24.34	360	0.04
30	16.72	33.42	20	16.92	33.44	24.36	358	0.07
50	15.41	33.26	30	16.72	33.42	24.39	355	0.11
70	14.28	33.19	50	15.41	33.26	24.56	339	0.18
80	13.71	33.16	75	14.00	33.17	24.79	317	0.26
90	12.66	33.16	100	11.68	33.15	25.23	275	0.33
100	11.68	33.15	150	9.76	33.66	25.97	204	0.46
110	10.76	33.25	200	8.77	33.91	26.32	171	0.55
120	10.40	33.31	250	8.53	34.11	26.52	152	0.63
150	9.76	33.66	300	8.24	34.26	26.68	137	0.71
198	8.78	33.91	400	7.34	34.33	26.86	120	0.84
257	8.50	34.13	500	6.42	34.35	27.01	106	0.96
267	8.45	34.18	600	(5.72)	(34.37)	(27.11)	(96)	(1.07)
346	7.94	34.31						
446	6.86	34.34						
597	5.73	34.37						

HORIZON; May 13, 1954; 1343 GCT; 28°41.5'N, 115°02'W; sounding, 75 fm; wind, 320°, force 5; weather, overcast; sea, slight; wire angle, 08°.

0	15.14	33.40	0	15.14	33.40	24.73	322	0.00
10	15.02	33.37	10	15.02	33.37	24.73	322	0.03
20	13.94	33.40	20	13.94	33.40	24.98	299	0.06
25	12.76	33.37	30	12.36	33.40	25.30	268	0.09
30	12.36	33.40	50	10.36	33.54	25.77	223	0.14
35	11.72	33.42	75	9.51	33.71	26.05	197	0.19
40	11.30	33.45	100	9.20	33.87	26.22	181	0.24
45	10.98	33.48						
50	10.36	33.54						
60	9.81	-						
70	9.56	33.68						
80	9.48	33.74						
90	9.32	33.78						
100	9.20	33.87						
110	9.10	33.95						
120	9.15	34.32r						

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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

II7.40

HORIZON; May 14, 1954; 0214 GCT; 28°27'N, 115°36'W; sounding, 600 fm; wind, 320°, force 3; weather, clear; sea, moderate; wire angle, 20°.

0	16.26	33.31	0	16.26	33.31	24.41	353	0.00
10	15.76	33.28	10	15.76	33.28	24.50	344	0.04
40	15.67	33.35	20	15.74	33.32	24.54	340	0.07
58	13.98	33.16	30	15.73	33.34	24.55	340	0.10
68	12.61	33.17	50	15.00	33.22	24.62	333	0.17
77	11.88	33.22	75	11.98	33.20	25.22	276	0.25
87	11.68	33.30	100	10.48	33.33	25.59	240	0.31
96	10.78	33.31	150	9.97	34.24	26.38	166	0.42
115	9.64	33.53	200	9.72	34.46	26.60	145	0.49
132	9.34	33.73	250	9.22	34.46	26.68	137	0.57
140	9.34	33.90	300	8.83	34.46	26.74	131	0.64
149	9.92	34.21	400	8.13	34.46	26.85	121	0.77
168	10.04	34.44	500	7.10	34.45	26.99	108	0.89
228	9.42	34.46						
365	8.41	34.46						
560	6.56	34.45						

II7.60

HORIZON; May 14, 1954; 1236 GCT; 27°46.5'N, 116°53'W; sounding, 2100 fm; wind, 300°, force 2; weather, overcast; sea, smooth; wire angle, 15°.

0	17.20	33.46	0	17.20	33.46	24.31	362	0.00
10	17.20	33.48	10	17.20	33.48	24.32	361	0.04
50	16.76	33.49	20	17.20	33.48	24.32	361	0.07
90	15.64	33.57	30	17.20	33.48	24.32	361	0.11
109	13.54	33.31	50	16.76	33.49	24.43	351	0.18
119	12.32	33.33	75	16.19	33.54	24.60	335	0.27
129	11.67	33.33	100	14.56	33.42	24.87	309	0.35
138	11.04	33.47	150	10.83	33.60	25.74	226	0.48
149	10.87	33.57	200	10.61	34.20	26.24	179	0.59
159	10.48	33.78	250	9.56	34.27	26.48	156	0.67
178	10.86	34.05	300	8.70	34.29	26.63	142	0.75
216	10.24	34.25	400	7.27	34.31	26.86	120	0.89
294	8.78	34.29	500	6.38	34.42	27.07	100	1.00
391	7.38	34.31	600	5.85	34.46	27.17	91	1.11
514	6.28	34.43						
648	5.68	34.48						

I20.25

HORIZON; May 13, 1954; 0655 GCT; 28°24'N, 114°18'W; sounding, 45 fm; wind, 320°, force 5; weather, overcast; sea, smooth; wire angle, 10°.

0	15.42	33.45	0	15.42	33.45	24.71	324	0.00
5	15.43	33.40	10	15.42	33.40	24.67	328	0.03
10	15.42	33.62r	20	15.40	33.40	24.67	328	0.07
15	15.41	33.40	30	13.43	33.43	25.11	286	0.10
20	15.40	33.40	50	10.99	33.51	25.64	236	0.15
25	15.20	33.41						
30	13.43	33.43						
35	12.12	33.47						
40	11.64	33.48						
45	11.24	33.48						
50	10.99	33.51						
55	10.68	33.58						
60	10.46	33.64						
65	10.14	33.73						
70	10.08	33.80						

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; May 13, 1954; 0131 GCT; 28°03'N, 114°54'W; sounding, 45 fm; wind, 340°, force 4; weather, clear; sea, moderate; wire angle, 15°.

0	16.46	33.42	0	16.46	33.42	24.45	349	0.00
5	16.43	33.38	10	16.17	33.39	24.49	345	0.04
10	16.17	33.39	20	15.54	33.34	24.60	335	0.07
15	15.68	33.37	30	15.44	33.40	24.66	329	0.10
20	15.54	33.34	50	13.27	33.36	25.09	288	0.16
25	15.48	33.43						
30	15.44	33.40						
35	15.12	33.39						
40	13.99	33.35						
45	13.54	33.34						
50	13.27	33.36						
55	13.10	33.42						
60	13.00	33.40						
65	12.58	33.40						
70	12.01	33.40						

HORIZON; May 12, 1954; 1533 GCT; 27°32'N, 116°01'W; sounding, 2100 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 18°.

0	15.4	33.40	0	15.4	33.40	24.67	328	0.00
10	15.30	33.44	10	15.30	33.44	24.73	322	0.03
15	14.66	33.42	20	13.20	33.32	25.07	290	0.06
22	12.74	33.31	30	11.76	33.36	25.38	260	0.09
28	11.72	33.37	50	10.69	33.54	25.71	229	0.14
33	11.11	33.35	75	10.32	33.84	26.01	201	0.19
40	10.94	33.45	100	10.62	34.11	26.17	185	0.24
59	10.38	33.62	150	9.50	34.08	26.34	169	0.33
79	10.56	33.89	200	9.08	34.25	26.54	150	0.42
107	10.54	34.12	250	8.72	34.41	26.72	133	0.49
145	9.56	34.08	300	8.33	34.50	26.85	121	0.55
211	8.99	34.29	400	7.41	34.46	26.96	110	0.68
317	8.24	34.50	500	6.58	34.45	27.06	101	0.79
432	7.11	34.45	600	5.88	34.46	27.16	92	0.89
624	5.72	34.46	700	5.26	34.47	27.25	83	0.99
867	4.50	34.50	800	4.77	34.49	27.32	76	1.08
1168	3.64	34.59	1000	4.08	34.54	27.43	66	1.24

HORIZON; May 12, 1954; 0551 GCT; 26°52'N, 117°11'W; sounding, 2000 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 13°.

0	16.9	33.38	0	16.9	33.38	24.32	361	0.00
10	17.00	33.37	10	17.00	33.37	24.29	364	0.04
30	16.77	33.37	20	16.90	33.37	24.31	362	0.07
60	16.36	33.68	30	16.77	33.37	24.34	360	0.11
81	13.94	33.32	50	16.41	33.63	24.41	353	0.18
85	13.30	33.27	75	14.81	33.43	24.82	314	0.26
89	13.14	33.44	100	12.25	33.48	25.38	260	0.34
94	12.93	33.45	150	10.14	33.81	26.02	200	0.45
98	12.38	33.47	200	9.50	34.22	26.45	159	0.54
108	11.89	33.54	250	(9.49)	(34.40)	(26.59)	(146)	(0.62)
118	11.35	33.59	300	(8.72)	(34.41)	(26.72)	(133)	(0.70)
147	10.22	33.78	400	(7.95)	(34.42)	(26.85)	(121)	(0.83)
240	9.84	34.40	500	5.89	34.51	27.20	88	(0.94)
430	7.66	34.43	600	(5.37)	(34.51)	(27.27)	(81)	(1.03)
519	5.72	34.51	700	(5.03)	(34.50)	(27.30)	(78)	(1.12)
860	4.56	34.49	800	(4.73)	(34.49)	(27.32)	(76)	(1.20)
1161	3.65	34.54	1000	4.12	34.51	27.41	68	(1.37)

120.70

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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

HORIZON; May 11, 1954; 1135 GCT; 26°25'N, 118°18'W; sounding, 2200 fm; wind, 330°, force 3; weather, cloudy; sea, rough; wire angle, 28°.

0	17.0	33.35	0	17.0	33.35	24.27	366	0.00
10	16.98	33.37	10	16.98	33.37	24.29	364	0.04
33	16.93	33.43	20	16.94	33.37	24.30	363	0.07
63	17.85	34.24	30	16.93	33.38	24.31	362	0.11
80	16.07	33.78	50	17.75	34.05	24.63	332	0.18
84	15.38	33.68	75	17.10	34.03	24.77	319	0.26
88	14.86	33.66	100	13.38	33.54	25.21	277	0.34
96	14.16	33.59	150	11.21	33.92	25.92	209	0.46
105	12.84	33.51	200	10.30	34.20	26.30	173	0.56
118	12.02	33.65	250	9.74	34.35	26.51	153	0.64
131	11.70	33.78	300	9.27	34.38	26.61	144	0.72
173	10.70	34.06	400	8.22	34.40	26.79	127	0.86
255	9.69	34.36	500	7.00	34.37	26.94	112	0.99
381	8.44	34.40	600	6.03	34.37	27.07	100	1.10
552	6.45	34.37	700	5.30	34.39	27.18	90	1.20
772	4.93	34.40	800	4.82	34.41	27.25	83	1.30
1056	4.00	34.47	1000	4.14	34.46	27.36	73	1.47

123.40

HORIZON; May 10, 1954; 1349 GCT; 27°19.5'N, 114°52'W; sounding, 305 fm; wind, 320°, force 4; weather, partly cloudy; sea, slight; wire angle, 32°.

0	14.4	33.39	0	14.4	33.39	24.88	308	0.00
10	14.38	33.37	10	14.38	33.37	24.87	309	0.03
23	13.94	33.42	20	14.28	33.41	24.92	304	0.06
27	13.88	33.43	30	13.52	33.53	25.17	280	0.09
31	13.37	33.53	50	11.18	33.64	25.71	229	0.14
35	11.94	33.46	75	9.92	33.75	26.01	201	0.20
39	11.50	33.43	100	10.30	34.13	26.24	179	0.24
58	10.88	33.76	150	10.23	34.45	26.50	154	0.33
65	10.10	33.63	200	10.52	34.58	26.55	149	0.41
72	9.96	33.73						
84	9.84	33.79						
89	9.83	33.90						
98	10.32	34.08						
101	10.25	34.14						
111	9.97	34.23						
209	10.53	34.58						

123.60

HORIZON; May 11, 1954; 0946 GCT; 26°39'N, 116°15'W; sounding, 2150 fm; wind, 320°, force 5; weather, overcast; sea, moderate; wire angle, 33°.

0	16.6	33.45	0	16.6	33.45	24.44	350	0.00
9	16.60	33.49	10	16.59	33.49	24.47	347	0.04
18	16.53	33.49	20	16.30	33.46	24.52	342	0.07
22	15.37	33.41	30	14.28	33.36	24.88	308	0.10
27	14.35	33.31	50	11.29	33.26	25.39	260	0.16
31	14.25	33.36	75	10.44	33.78	25.95	206	0.22
35	13.80	33.35	100	9.65	34.10	26.33	170	0.26
39	13.03	33.38	150	9.51	34.38	26.57	148	0.35
47	11.53	33.25	200	9.32	34.44	26.65	140	0.42
55	11.04	33.30	250	8.98	34.46	26.72	133	0.49
69	10.62	33.57	300	8.52	34.46	26.79	127	0.56
99	9.66	34.09	400	7.40	34.44	26.94	112	0.68
174	9.43	34.42	500	6.47	34.44	27.07	100	0.80
268	8.83	34.46						
367	7.76	34.45						
432	7.07	34.43						
571	5.89	34.45						

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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

HORIZON; May 10, 1954; 0710 GCT; 26°56'N, 114°05'W; sounding, 41 fm; wind, 320°, force 4; weather, clear; sea, slight; wire angle, 12°.

0	13.95	33.35	0	13.95	33.35	24.94	302	0.00
5	13.93	33.37	10	13.46	33.29	25.00	297	0.03
10	13.46	33.29	20	11.88	33.26	25.28	270	0.06
12	12.76	33.27	30	11.40	33.50	25.56	243	0.08
15	12.35	33.27	50	11.23	33.96	25.94	207	0.13
18	11.90	33.19						
20	11.88	33.26						
25	11.78	33.42						
30	11.40	33.50						
35	11.42	33.65						
40	10.84	33.75						
45	10.95	33.82						
50	11.23	33.96						
55	11.35	34.03						
60	10.98	34.03						

HORIZON; May 9, 1954; 2050 GCT; 26°20.5'N, 115°12'W; sounding, 1850 fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 20°.

0	17.4	33.58	0	17.4	33.58	24.35	359	0.00
10	17.45	33.59	10	17.45	33.59	24.35	359	0.04
39	18.00	34.02	20	17.43	33.60	24.36	358	0.07
63	17.44	33.96	30	17.77	33.89	24.50	344	0.11
82	15.90	33.87	50	18.03	34.00	24.52	342	0.18
91	14.36	33.69	75	16.84	33.91	24.74	321	0.26
106	12.56	33.68	100	13.06	33.68	25.38	260	0.33
114	12.06	33.86	150	11.45	34.10	26.01	201	0.45
123	10.28	33.53	200	10.77	34.34	26.32	171	0.54
132	11.25	33.82	250	10.42	34.47	26.49	155	0.63
141	11.52	33.97	300	10.00	34.52	26.60	145	0.71
145	11.47	34.03	400	8.27	34.41	26.79	127	0.85
154	11.44	34.14	500	7.02	34.40	26.96	110	0.98
202	10.74	34.35	600	6.14	34.41	27.09	98	1.09
301	10.00	34.52						
440	7.66	34.40						
658	5.70	34.42						

HORIZON; May 8, 1954; 1946 GCT; 26°27'N, 113°28'W; sounding, 45 fm; wind, 270°, force 2; weather, clear; sea, slight; wire angle, 00°.

0	14.94	33.53	0	14.94	33.53	24.87	309	0.00
5	14.49	33.44	10	14.14	33.42	24.96	300	0.03
10	14.14	33.42	20	12.14	33.55	25.46	253	0.06
15	12.64	33.45	30	11.62	33.58	25.58	242	0.08
20	12.14	33.55	50	10.68	33.78	25.90	211	0.13
25	11.84	33.54						
30	11.62	33.58						
35	11.39	33.60						
40	11.18	33.68						
44	10.89	33.68						
49	10.68	33.74						
54	10.94	33.94						
58	11.22	34.04						
63	11.24	34.07						
68	11.23	34.09						

130.30

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

130.40

HORIZON; May 9, 1954; 0109 GCT;  $26^{\circ}08.5'N$ ,  $114^{\circ}08.5'W$ ; sounding, 1300 fm; wind,  $290^{\circ}$ , force 6; weather, clear; sea, moderate; wire angle,  $42^{\circ}$ .

0	16.5	33.35	0	16.5	33.35	24.39	355	0.00
9	16.45	33.35	10	16.45	33.35	24.40	354	0.04
20	16.25	33.42	20	16.25	33.42	24.50	344	0.07
39	15.25	33.30	30	16.06	33.36	24.49	345	0.10
58	13.48	33.21	50	14.69	33.23	24.70	325	0.17
66	13.10	33.22	75	12.32	33.24	25.18	280	0.25
77	12.20	33.25	100	10.50	33.38	25.62	238	0.31
92	11.21	33.51	150	11.12	34.26	26.20	183	0.42
100	10.50	33.38	200	10.49	34.44	26.45	159	0.51
111	11.06	33.75	250	9.62	34.45	26.61	144	0.58
118	11.30	34.02	300	8.87	34.44	26.72	133	0.66
165	10.99	34.34	400	7.66	34.40	26.87	119	0.79
231	9.95	34.45	500	6.78	34.38	26.98	109	0.91
325	8.55	34.43	600	6.07	34.42	27.11	96	1.02
493	6.82	34.38	700	5.49	34.45	27.20	88	1.12
643	5.79	34.43	800	4.99	34.47	27.28	80	1.21
918	4.46	34.49						

130.60

HORIZON; May 9, 1954; 1106 GCT;  $25^{\circ}28'N$ ,  $115^{\circ}23.5'W$ ; sounding, 2100 fm; wind,  $320^{\circ}$ , force 5; weather, missing; sea, moderate; wire angle,  $15^{\circ}$ .

0	17.0	33.36	0	17.0	33.36	24.28	365	0.00
10	17.03	33.49	10	17.03	33.49	24.37	357	0.04
25	15.96	33.32	20	16.02	33.36	24.50	344	0.07
60	15.36	33.42	30	15.94	33.33	24.50	344	0.11
79	13.73	33.34	50	15.83	33.40	24.58	337	0.17
93	12.62	33.30	75	14.18	33.36	24.90	306	0.26
108	11.69	33.38	100	12.24	33.32	25.26	272	0.33
127	10.68	33.44	150	11.61	34.02	25.92	209	0.45
161	11.70	34.28	200	11.12	34.45	26.35	168	0.55
185	11.25	34.38	250	10.29	34.51	26.54	150	0.63
214	11.00	34.49	300	9.48	34.51	26.68	137	0.70
291	9.56	34.51	400	8.28	34.48	26.84	122	0.84
389	8.42	34.48	500	7.08	34.43	26.98	109	0.96
558	6.45	34.43	600	6.07	34.44	27.12	95	1.07
681	5.49	34.47	700	(5.41)	(34.47)	(27.23)	(85)	(1.17)
1272	3.51	34.52	800	(4.98)	(34.48)	(27.29)	(79)	(1.26)
1577	2.77	34.60	1000	(4.28)	(34.50)	(27.38)	(71)	(1.43)
			1200	(3.72)	(34.51)	(27.45)	(64)	(1.58)
			1500	2.94	34.58	27.58	52	(1.79)

133.30

HORIZON; May 8, 1954; 0832 GCT;  $25^{\circ}54.5'N$ ,  $113^{\circ}08'W$ ; sounding, 110 fm; wind,  $320^{\circ}$ , force 5; weather, missing; sea, slight; wire angle,  $28^{\circ}$ .

0	16.6	33.52	0	16.6	33.52	24.49	345	0.00
10	16.36	33.58	10	16.36	33.58	24.59	336	0.03
15	15.18	33.44	20	14.45	33.44	24.91	305	0.07
19	14.64	33.44	30	13.34	33.36	25.08	289	0.10
24	13.69	33.40	50	12.95	33.63	25.36	262	0.15
28	13.52	33.37	75	12.28	34.26	25.98	204	0.20
37	12.63	33.36	100	11.79	34.33	26.13	189	0.26
46	12.21	33.37	150	11.34	34.58	26.41	163	0.35
51	12.98	33.81						
55	12.96	33.87						
60	12.76	33.91						
64	12.46	33.97						
83	12.12	34.28						
101	11.79	34.33						
130	11.43	34.46						
158	11.32	34.61						

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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; May 7, 1954; 2159 GCT; 25°17'N, 114°26'W; sounding, 1750 fm; wind, 290°, force 5; weather, cloudy; sea, moderate; wire angle, 28°.

0	16.9	33.40	0	16.9	33.40	24.33	360	0.00
10	16.73	33.38	10	16.73	33.38	24.36	358	0.04
24	15.92	33.35	20	16.31	33.36	24.44	350	0.07
42	15.06	33.35	30	15.58	33.35	24.59	336	0.11
64	13.46	33.25	50	14.48	33.32	24.81	315	0.17
83	12.32	33.31	75	12.78	33.28	25.13	284	0.25
92	11.49	33.35	100	10.62	33.29	25.53	246	0.31
100	10.62	33.29	150	9.92	34.06	26.25	178	0.42
121	10.18	33.77	200	10.47	34.50	26.50	154	0.50
150	9.92	34.06	250	(9.52)	(34.43)	(26.61)	(144)	(0.58)
166	9.81	34.19	300	(8.72)	(34.40)	(26.71)	(134)	(0.65)
189	10.46	-	400	(7.62)	(34.40)	(26.88)	(118)	(0.79)
213	10.22	34.49	500	6.88	34.41	26.99	108	(0.91)
237	9.86	34.45						
244	9.67	34.43						
415	7.50	34.40						
564	6.56	34.42						

HORIZON; May 6, 1954; 1931 GCT; 25°36.5'N, 112°19'W; sounding, 40 fm; wind, 220°, force 3; weather, partly cloudy; sea, slight; wire angle, 05°.

0	16.90	33.80	0	16.90	33.80	24.64	331	0.00
5	16.70	33.82	10	16.27	33.80	24.78	318	0.03
10	16.27	33.80	20	15.42	33.78	24.96	300	0.06
15	15.72	33.77	30	14.27	33.86	25.27	271	0.09
20	15.42	33.78	50	12.58	34.14	25.83	218	0.14
25	14.76	33.82						
30	14.27	33.86						
35	13.98	33.88						
40	13.16	34.01						
45	12.68	34.13						
50	12.58	34.14						
55	12.56	34.19						
60	12.57	34.35						

HORIZON; May 7, 1954; 0340 GCT; 24°55'N, 113°25'W; sounding, 2000 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 18°.

0	17.8	33.83	0	17.8	33.83	24.45	349	0.00
10	17.72	33.85	10	17.72	33.85	24.48	346	0.04
20	17.25	33.80	20	17.25	33.80	24.55	340	0.07
40	14.50	33.56	30	16.95	33.72	24.56	339	0.10
45	14.09	33.72	50	13.52	33.82	25.39	260	0.16
50	13.52	33.82	75	12.42	33.93	25.70	230	0.22
54	13.24	33.82	100	11.71	34.15	26.00	202	0.28
59	13.11	33.86	150	10.84	34.34	26.31	172	0.37
68	12.60	33.87	200	10.71	34.56	26.50	154	0.46
77	12.38	33.96	250	10.10	34.59	26.63	142	0.53
95	11.82	34.11	300	9.40	34.58	26.74	131	0.60
113	11.46	34.22	400	7.99	34.53	26.93	113	0.73
139	10.86	34.30	500	6.98	34.50	27.05	102	0.85
184	10.80	34.54						
273	9.76	34.59						
411	7.86	34.52						
556	6.56	34.50						

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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

13760

HORIZON; May 7, 1954; 1230 GCT; 24°16'N, 114°35'W; sounding, 2100 fm; wind, 340°, force 5; weather, missing; sea, slight; wire angle, 19°.

0	18.0	33.86	0	18.0	33.86	24.42	352	0.00
10	18.04	33.85	10	18.04	33.85	24.40	354	0.04
49	17.64	33.94	20	17.88	33.86	24.45	349	0.07
68	17.67	33.99	30	17.66	33.87	24.51	343	0.10
72	17.40	34.00	50	17.64	33.94	24.57	338	0.17
76	16.48	33.93	75	16.63	33.98	24.84	312	0.26
81	14.66	33.78	100	12.93	33.69	25.41	258	0.33
85	13.82	33.77	150	10.73	34.33	26.32	171	0.44
90	13.61	33.70	200	10.22	34.36	26.43	161	0.52
94	13.42	33.68	250	9.87	34.47	26.58	146	0.60
103	12.62	33.75	300	9.17	34.49	26.71	134	0.67
116	11.69	33.78	400	7.83	34.46	26.90	116	0.81
139	10.74	34.32	500	6.87	34.46	27.03	104	0.92
183	10.48	34.34						
273	9.54	34.49						
414	7.68	34.46						
561	6.40	34.46						

EAST

00.0	20.2	34.34	00.0	20.2	34.34	24.42	352	0.00
20.0	21.6	34.30	20.0	21.6	34.30	24.45	354	0.04
40.0	20.6	34.35	30.0	21.1	34.35	24.52	351	0.07
60.0	17.7	34.32	40.0	19.4	34.32	24.58	348	0.10
80.0	12.7	34.30	50.0	17.7	34.30	24.65	345	0.13
100.0	8.1	34.28	60.0	13.5	34.28	24.72	342	0.16
120.0	3.8	34.26	70.0	9.3	34.26	24.79	339	0.19
140.0	-0.5	34.24	80.0	5.1	34.24	24.86	336	0.22
160.0	-4.8	34.22	90.0	1.9	34.22	24.93	333	0.25
180.0	-9.5	34.20	100.0	-3.7	34.20	25.00	330	0.28
200.0	-14.2	34.18	110.0	-7.5	34.18	25.07	327	0.31
220.0	-18.9	34.16	120.0	-11.3	34.16	25.14	324	0.34
240.0	-23.6	34.14	130.0	-15.1	34.14	25.21	321	0.37
260.0	-28.3	34.12	140.0	-18.9	34.12	25.28	318	0.40
280.0	-33.0	34.10	150.0	-22.7	34.10	25.35	315	0.43
300.0	-37.7	34.08	160.0	-26.5	34.08	25.42	312	0.46
320.0	-42.4	34.06	170.0	-30.3	34.06	25.49	309	0.49
340.0	-47.1	34.04	180.0	-34.1	34.04	25.56	306	0.52
360.0	-51.8	34.02	190.0	-37.9	34.02	25.63	303	0.55
380.0	-56.5	34.00	200.0	-41.7	34.00	25.70	300	0.58
400.0	-61.2	34.00	210.0	-45.5	34.00	25.77	297	0.61
420.0	-65.9	34.00	220.0	-49.3	34.00	25.84	294	0.64
440.0	-70.6	34.00	230.0	-53.1	34.00	25.91	291	0.67
460.0	-75.3	34.00	240.0	-56.9	34.00	25.98	288	0.70
480.0	-80.0	34.00	250.0	-60.7	34.00	26.05	285	0.73
500.0	-84.7	34.00	260.0	-64.5	34.00	26.12	282	0.76

OPTC

00.0	24.32	34.34	00.0	24.32	34.34	24.42	352	0.00
20.0	25.32	34.30	20.0	25.32	34.30	24.38	354	0.04
40.0	27.32	34.26	30.0	27.32	34.26	24.35	351	0.07
60.0	29.32	34.22	40.0	29.32	34.22	24.32	348	0.10
80.0	31.32	34.18	50.0	31.32	34.18	24.29	345	0.13
100.0	33.32	34.14	60.0	33.32	34.14	24.26	342	0.16
120.0	35.32	34.10	70.0	35.32	34.10	24.23	339	0.19
140.0	37.32	34.06	80.0	37.32	34.06	24.20	336	0.22
160.0	39.32	34.02	90.0	39.32	34.02	24.17	333	0.25
180.0	41.32	34.00	100.0	41.32	34.00	24.14	330	0.28
200.0	43.32	34.00	110.0	43.32	34.00	24.11	327	0.31
220.0	45.32	34.00	120.0	45.32	34.00	24.08	324	0.34
240.0	47.32	34.00	130.0	47.32	34.00	24.05	321	0.37
260.0	49.32	34.00	140.0	49.32	34.00	24.02	318	0.40
280.0	51.32	34.00	150.0	51.32	34.00	23.99	315	0.43
300.0	53.32	34.00	160.0	53.32	34.00	23.96	312	0.46
320.0	55.32	34.00	170.0	55.32	34.00	23.93	309	0.49
340.0	57.32	34.00	180.0	57.32	34.00	23.90	306	0.52
360.0	59.32	34.00	190.0	59.32	34.00	23.87	303	0.55
380.0	61.32	34.00	200.0	61.32	34.00	23.84	300	0.58
400.0	63.32	34.00	210.0	63.32	34.00	23.81	297	0.61
420.0	65.32	34.00	220.0	65.32	34.00	23.78	294	0.64
440.0	67.32	34.00	230.0	67.32	34.00	23.75	291	0.67
460.0	69.32	34.00	240.0	69.32	34.00	23.72	288	0.70
480.0	71.32	34.00	250.0	71.32	34.00	23.69	285	0.73
500.0	73.32	34.00	260.0	73.32	34.00	23.66	282	0.76

## 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
60.55-C	V-10	2130	37°48.0'	123°15.0'	47	310°	4	cloudy	moderate	10.42	33.38
60.70-C	11	0515	37°18.0'	124°21.0'	209	330°	4	missing	moderate	12.40	32.91
60.90-C	11	1650	36°37.0'	125°47.0'	2200	350°	4	cloudy	moderate	13.58	32.98
63.52-C	9	2010	37°20.0'	122°38.0'	40	140°	3	cloudy	moderate	11.14	33.05
67.55-C	9	1300	36°40.0'	122°24.0'	1050	140°	5	cloudy	rough	12.37	32.92
70.55-C	13	0600	36°03.0'	122°02.0'	650	310°	6	partly cloudy	very rough	11.82	33.15
70.70-C	12	1805	35°35.0'	123°12.0'	2000	340°	6	cloudy	very rough	13.28	-
70.90-C	12	0500	34°52.5'	124°30.0'	2200	330°	7	cloudy	rough	13.48	32.92
73.50-C	13	1345	35°37.0'	121°16.5'	50	120°	1	clear	rough	10.47	33.51
77.50-C	14	0820	35°04.0'	120°52.0'	80	320°	3	fog	moderate	11.50	33.35
77.65-C	14	0000	34°35.5'	121°54.0'	2100	330°	4	cloudy	rough	13.50	33.11
80.51-C	14	1315	34°24.5'	120°33.0'	52	320°	3	fog	moderate	11.59	33.94
80.60-C	14	1830	34°09.0'	121°09.0'	1200	270°	2	cloudy	moderate	11.85	33.43
80.80-C	15	0440	33°29.0'	122°32.0'	2200	310°	2	cloudy	slight	14.82	33.21
83.40-C	16	2245	34.14.5'	119°22.0'	30	260°	2	partly cloudy	slight	14.00	33.44
83.48-C	16	1405	33°58.5'	119°55.0'	62	300°	3	cloudy	slight	13.13	33.55
83.55-C	16	0920	33°42.5'	120°23.5'	650	320°	6	partly cloudy	rough	12.90	33.48
83.70-C	16	0020	33°14.5'	121°26.0'	1950	330°	3	partly cloudy	moderate	14.28	33.18
83.90-C	15	1420	32°34.0'	122°47.5'	2200	340°	2	cloudy	slight	14.94	33.18

## 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
85.40-C	V-17	0230	33°57.0'	119°10.5'	400	260°	2	clear	slight	13.68	33.31
85.50-C	17	0900	33°37.0'	119°52.0'	135	310°	4	cloudy	moderate	13.10	33.43
85.60-C	17	1510	33°16.5'	120°34.5'	1050	340°	4	overcast	rough	13.63	33.27
87.35-C	18	0300	33°50.0'	118°37.5'	300	140°	1	fog	slight	15.14	33.49
87.45-C	18	0900	33°30.0'	119°19.0'	920	calm		fog	smooth	13.58	33.51
87.55-C	18	1500	33°10.0'	120°00.5'	660	100°	2	fog	moderate	14.26	33.18
87.70-C	18	2315	32°38.0'	121°06.0'	1750	340°	4	cloudy	rough	14.68	33.17
87.90-C	19	0830	31°59.0'	122°24.0'	2200	330°	4	clear	rough	15.18	33.11
90.30-C	21	0935	33°25.0'	117°55.0'	320	110°	2	missing	smooth	13.64	33.37
90.33 <sup>5</sup> -C	20	2145	33°17.5'	118°09.5'	400	240°	3	cloudy	smooth	15.40	33.34
90.41-C	20	1645	33°02.5'	118°39.0'	140	200°	4	overcast	moderate	15.04	33.39
90.45-C	20	1420	32°54.5'	118°56.0'	910	280°	2	overcast	moderate	14.40	33.37
90.50-C	20	1200	32°44.5'	119°16.0'	65	280°	4	cloudy	moderate	14.74	33.30
90.60-C	20	0515	32°25.0'	119°58.0'	750	330°	4	cloudy	moderate	14.60	33.23
90.80-C	19	1745	31°41.5'	121°25.5'	1900	350°	4	cloudy	rough	15.90	33.22
93.27-C	21	1520	32°56.5'	117°19.5'	50	160°	4	cloudy	moderate	17.14	33.57
93.35-C	21	2050	32°40.0'	117°52.0'	350	200°	2	cloudy	moderate	15.04	33.36
93.40-C	21	2335	32°30.0'	118°12.5'	950	280°	3	cloudy	very rough	14.70	33.38
93.45-C	22	0220	32°20.0'	118°33.0'	385	330°	4	cloudy	very rough	15.02	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
93.55-C	V-22	0830	32°00.0'	119°14.0'	850	320°	3	cloudy	very rough	14.74	33.37
93.60-C	22	1115	31°49.5'	119°34.5'	1050	310°	4	cloudy	very rough	15.18	33.34
93.80-C	22	2045	31°11.0'	120°55.5'	2100	330°	4	cloudy	very rough	15.22	33.27
97.30-C	24	1550	32°15.5'	117°09.0'	32	330°	3	cloudy	slight	13.21	33.44
97.32-C	24	1445	32°11.5'	117°13.0'	750	010°	2	cloudy	slight	16.46	33.48
97.36-C	24	1243	32°03.5'	117°34.0'	740	320°	3	cloudy	slight	16.04	33.42
97.45-C	24	0615	31°41.5'	118°10.0'	800	300°	3	cloudy	moderate	16.02	33.30
97.50-C	24	0320	31°35.5'	118°31.0'	1300	310°	4	cloudy	moderate	15.90	33.24
97.55-C	24	0040	31°25.5'	118°51.0'	650	330°	2	cloudy	moderate	16.04	33.39
97.70-C	23	1630	30°54.0'	119°49.0'	2000	300°	3	cloudy	rough	15.76	33.51
97.90-C	23	0620	30°15.0'	121°11.0'	2050	340°	4	cloudy	rough	15.54	33.28
100.30-H	21	0915	31°39.5'	116°47.0'	260	320°	1	overcast	calm	15.82	33.61
100.35-H	21	0705	31°29.5'	117°06.5'	700	300°	2	overcast	slight	16.31	33.47
100.40-H	21	0450	31°20.0'	117°25.5'	1070	300°	3	overcast	slight	16.46	33.55
100.45-H	21	0230	31°12.0'	117°46.0'	1100	320°	3	overcast	slight	16.29	33.42
100.55-H	20	2120	30°49.0'	118°20.0'	1350	300°	2	overcast	slight	15.76	33.77
100.60-H	20	1910	30°39.0'	118°42.0'	1350	300°	3	overcast	moderate	16.00	33.41
100.80-H	20	0955	30°00.5'	120°04.0'	2250	330°	3	overcast	moderate	15.91	33.24
100.100-H	20	0055	29°22.0'	121°25.0'	2200	320°	4	overcast	moderate	17.41	33.47

## 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
103.35-H	V-18	1715	30°56.0'	116°43.0'	1020	calm		overcast	slight	16.12	33.40
103.45-H	18	2235	30°34.0'	117°26.0'	1150	calm		overcast	slight	15.87	33.43
103.50-H	20	0115	30°24.0'	117°47.0'	1450	220°	3	overcast	moderate	16.16	33.21
103.55-H	19	0305	30°16.0'	118°06.0'	1300	270°	4	overcast	moderate	16.87	-
103.70-H	19	1015	29°44.5'	119°08.0'	2000	320°	1	overcast	slight	16.01	33.24
103.90-H	19	1930	29°02.0'	120°26.5'	2175	360°	2	overcast	slight	16.92	33.38
107.32-H	18	1045	30°28.5'	116°15.0'	380	calm		overcast	calm	15.07	33.57
107.40-H	18	0530	30°11.0'	116°49.5'	1600	300°	1	overcast	slight	15.94	33.44
107.45-H	18	0310	30°02.0'	117°07.5'	1300	300°	4	overcast	moderate	15.70	33.44
107.55-H	17	2150	29°49.0'	117°48.0'	2050	320°	3	overcast	moderate	16.01	33.29
107.60-H	17	1935	29°37.0'	118°07.0'	1900	300°	4	overcast	moderate	16.02	33.30
107.80-H	17	1025	28°52.5'	119°23.0'	2300	320°	4	overcast	moderate	16.82	33.40
110.35-H	16	0135	29°46.0'	116°00.0'	635	320°	4	partly cloudy	moderate	16.10	33.40
110.45-H	16	0640	29°28.0'	116°39.0'	1250	320°	4	overcast	moderate	16.08	33.40
110.50-H	16	0855	29°18.5'	116°58.0'	1700	320°	4	overcast	moderate	16.60	33.40
110.55-H	16	1115	29°08.5'	117°17.0'	1950	320°	5	overcast	moderate	17.22	33.56
110.70-H	16	1915	28°35.5'	118°19.0'	2000	300°	5	partly cloudy	moderate	16.60	33.35
110.90-H	17	0420	27°56.5'	119°36.0'	2200	320°	4	cloudy	moderate	16.82	33.26
113.30-H	15	1935	29°26.0'	115°18.5'	37	220°	1	clear	slight	12.12	33.59

## 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
113.32 <sup>5</sup> -H	V-15	1805	29°21.0'	115°30.5'	60	320°	1	cloudy	slight	12.52	33.52
113.37 <sup>5</sup> -H	15	1500	29°12.5'	115°49.0'	1000	320°	2	overcast	slight	16.03	33.39
113.40-H	15	1340	29°06.5'	115°59.0'	1035	320°	4	overcast	slight	16.50	33.36
113.42 <sup>5</sup> -H	15	1215	29°01.0'	116°09.0'	850	320°	3	overcast	slight	16.53	33.36
113.45-H	15	1040	28°55.0'	116°19.0'	910	320°	2	overcast	slight	17.06	33.68
113.47 <sup>5</sup> -H	15	0915	28°50.0'	116°29.0'	1700	320°	2	overcast	slight	17.00	33.42
113.55-H	15	0425	28°33.5'	116°57.0'	1875	320°	3	overcast	slight	16.94	33.38
113.60-H	15	0205	28°23.0'	117°17.0'	2000	320°	1	overcast	slight	17.29	33.42
117.26-H	13	1115	28°51.5'	114°46.0'	50	320°	3	overcast	missing	14.70	33.50
117.28-H	13	1230	28°45.0'	114°57.0'	60	300°	5	overcast	slight	14.88	33.44
117.32 <sup>5</sup> -H	13	1430	28°38.0'	115°08.0'	90	300°	3	overcast	slight	14.56	33.46
117.35-H	13	1540	28°37.0'	115°17.0'	105	300°	4	overcast	slight	13.52	33.30
117.37 <sup>5</sup> -H	13	1655	28°33.0'	115°26.5'	150	300°	3	overcast	slight	14.78	33.28
117.42 <sup>5</sup> -H	14	0320	28°23.0'	115°45.5'	750	330°	3	overcast	moderate	16.30	33.22
117.45-H	14	0500	28°18.0'	115°55.5'	1700	300°	5	overcast	slight	16.28	33.22
117.47 <sup>5</sup> -H	14	0620	28°13.5'	116°05.5'	2500	300°	4	overcast	slight	16.18	33.25
117.50-H	14	0750	28°08.0'	116°15.0'	2300	300°	4	overcast	moderate	16.22	33.25
117.55-H	14	1010	27°58.0'	116°34.0'	2175	300°	3	cloudy	moderate	16.56	33.30
117.70-H	14	1655	27°25.5'	117°29.0'	2150	320°	1	overcast	slight	17.12	33.40

## 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
120.27 <sup>5</sup> -H	V-13	0515	28°18.5'	114°28.0'	50	320°	5	cloudy	moderate	15.73	33.49
120.30-H	13	0415	28°13.0'	114°36.5'	50	320°	4	cloudy	moderate	15.53a)	33.45
120.32 <sup>5</sup> -H	13	0250	28°07.5'	114°45.5'	50	320°	5	partly cloudy	moderate	15.94	33.46
120.37 <sup>5</sup> -H	12	2355	28°00.0'	115°01.0'	35	040°	3	partly cloudy	slight	16.14	33.47
120.40-H	12	2250	27°55.5'	115°15.0'	22	320°	5	cloudy	moderate	15.59	33.68
120.42 <sup>5</sup> -H	12	2050	27°55.0'	115°31.0'	90	320°	4	partly cloudy	moderate	17.21	33.67
120.45-H	12	1900	27°41.0'	115°45.0'	2400	320°	4	overcast	moderate	15.64	33.50
120.47 <sup>5</sup> -H	12	1730	27°36.5'	115°53.0'	2100	320°	4	overcast	moderate	16.09	33.46
120.55-H	12	1245	27°22.0'	116°17.5'	2100	330°	5	overcast	moderate	15.59	33.27
120.60-H	12	1025	27°12.5'	116°34.0'	2100	320°	5	overcast	moderate	16.60	33.33
120.80-H	12	0110	26°30.5'	117°47.0'	2150	320°	4	cloudy	moderate	16.98	33.37
123.37-H	10	1150	27°24.5'	114°40.5'	400	320°	4	clear	moderate	12.99	33.55
123.42 <sup>5</sup> -H	11	0040	27°13.5'	115°01.5'	1350	330°	5	partly cloudy	moderate	16.20	33.49
123.45-H	11	0140	27°08.5'	115°12.0'	2350	320°	5	partly cloudy	moderate	16.48	33.55
123.47 <sup>5</sup> -H	11	0320	27°03.5'	115°22.5'	2200	330°	5	partly cloudy	moderate	16.59	33.53
123.50-H	11	0450	26°58.0'	115°33.5'	2150	330°	6	cloudy	moderate	16.72	33.51
123.55-H	11	0710	26°49.0'	115°54.0'	2050	320°	6	overcast	rough	16.78	33.46

a) Alternate value, 15.97°C.

## 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
127.37-H	V-10	0509	26°45.0'	114°19.0'	1500	320°	5	clear	rough	16.52	33.42
127.40-H	10	0310	26°39.0'	114°29.5'	1750	330°	5	clear	rough	16.60	33.48
127.42 <sup>5</sup> -H	10	0155	26°35.5'	114°37.5'	2050	320°	5	clear	moderate	16.69	-
127.45-H	10	0035	26°31.0'	114°48.0'	2000	320°	5	partly cloudy	moderate	17.36	33.50
127.47 <sup>5</sup> -H	9	2255	26°27.5'	114°59.0'	2000	320°	5	overcast	moderate	17.10	33.43
127.55-H	9	1755	26°12.5'	115°26.0'	2050	320°	5	overcast	moderate	17.22	33.42
127.60-H	9	1535	26°02.5'	115°45.0'	2150	320°	4	overcast	moderate	17.69	33.78
130.35-H	8	2215	26°20.0'	113°48.5'	290	290°	5	clear	moderate	15.48	33.42
130.45-H	9	0345	25°58.5'	114°27.5'	2000	320°	4	partly cloudy	moderate	17.12	33.42
130.50-H	9	0555	25°49.0'	114°46.0'	3050	300°	5	cloudy	moderate	17.20	33.38
130.55-H	9	0815	25°39.0'	115°05.0'	2100	320°	5	cloudy	rough	17.12	33.37
133.25-H	8	1510	26°04.0'	112°48.5'	45	330°	2	partly cloudy	slight	15.78	33.53
133.35-H	8	0530	25°48.5'	113°29.0'	430	340°	4	partly cloudy	moderate	16.98a)	33.55
133.40-H	8	0355	25°40.5'	113°44.0'	1300	320°	4	partly cloudy	moderate	16.76	33.44
133.45-H	8	0016	25°25.0'	114°12.0'	1700	320°	4	cloudy	moderate	16.48b)	33.45
133.60-H	7	1720	24°55.5'	114°59.0'	2150	330°	4	overcast	moderate	16.62	33.40

- a) Alternate value, 15.96°C.  
 b) Alternate value, 16.64°C.

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

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Force	Weather	Sea	10 Meters	
										T	S

137.30-H	V-6	2215	25°21.0'	112°47.5'	180	320°	4	partly cloudy	slight	16.91a) 33.68
137.35-H	7	0050	25°10.5'	113°07.0'	720	320°	4	partly cloudy	moderate	17.69b) 33.76
137.45-H	7	0550	24°46.5'	113°41.0'	2000	320°	3	partly cloudy	moderate	17.31 33.70
137.50-H	7	0810	27°38.0'	114°01.0'	1950	330°	4	partly cloudy	moderate	17.62 33.67

- a) Alternate value, 16.17°C.  
 b) Alternate value, 17.20°C.

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