

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

Cover Copy :
STATION POSITIONS HS

data report

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5309
(MLR 52)
9-19 September 1953

CCOFI CRUISE 5310
(MLR 53)
7-24 October 1953

CCOFI CRUISE 5311
(MLR 54)
9-14 November 1953

CCOFI CRUISE 5312
(MLR 55)
1-13 December 1953

SIO Reference 58-44
1 August 1958

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5309

(MLR 52)

9-19 September 1953

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(MLR 53)

7-24 October 1953

CCOFI CRUISE 5311

(MLR 54)

9-14 November 1953

CCOFI CRUISE 5312

(MLR 55)

1-13 December 1953

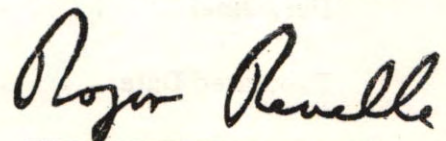
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Marine Research Committee

SIO Reference 58-44

1 August 1958

Approved for distribution:



Roger Revelle, Director

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INTRODUCTION

The data in this report were collected on the fifty-second, the fifty-third, the fifty-fourth and the fifty-fifth cruises of the California Cooperative Oceanic Fisheries Investigations program. The R/V Yellowfin of the California Department of Fish and Game and the R/V Crest, the R/V Horizon and the R/V Paolina-T of the Scripps Institution of Oceanography participated in the fifty-second cruise. The R/V Crest and the R/V Paolina-T participated in the fifty-third cruise. The R/V Paolina-T participated in the fifty-fourth cruise. The R/V Crest and the R/V Paolina-T participated in the fifty-fifth cruise.

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

STANDARD PROCEDURES

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

FOOTNOTES

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

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

p: pretrip or posttrip.

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

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

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

FORMAT

These data are typed in the format of the University of California Press publication, "Oceanic Observations of the Pacific." So that these pages can be used as copy for the 1953 volume, the first page of the Cruise 5309 data is numbered 344; Cruise 5310, 353; Cruise 5311, 375; Cruise 5312, 379.

COORDINATES			STATION IDENTIFICATION				DATE-TIME				
LONG	LAT	DEPTH	STATION	DEPTH	DEPTH	DEPTH	DEPTH	DATE	TIME	TIME	TIME
150.0	10.0	0.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	50.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	100.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	150.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	200.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	250.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	300.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	350.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	400.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	450.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00
150.0	10.0	500.0	5312	10.0	20.0	30.0	40.0	1978	10	00	00

FIGURES

1. CCOFI Cruise 5312 (MLR 55), station positions
2. Horizontal distribution of dynamic height anomaly (0 over 500 d-bar)
3. Surface currents measured by geomagnetic electrokinetograph (GEK)
4. Horizontal distribution of temperature at 10 meters
5. Horizontal distribution of salinity at 10 meters
6. Horizontal distribution of temperature at 200 meters
7. Horizontal distribution of salinity at 200 meters

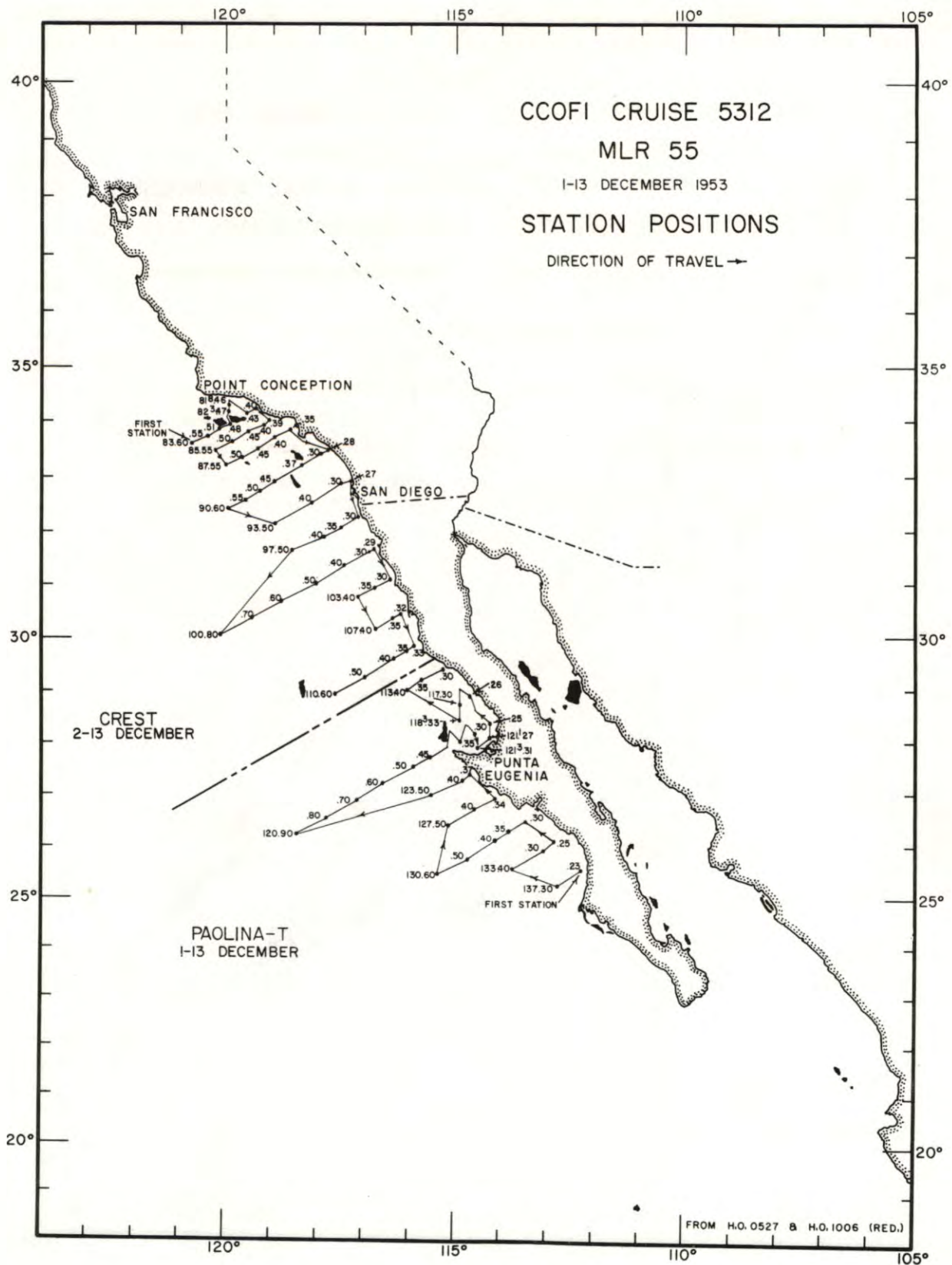


FIGURE 1

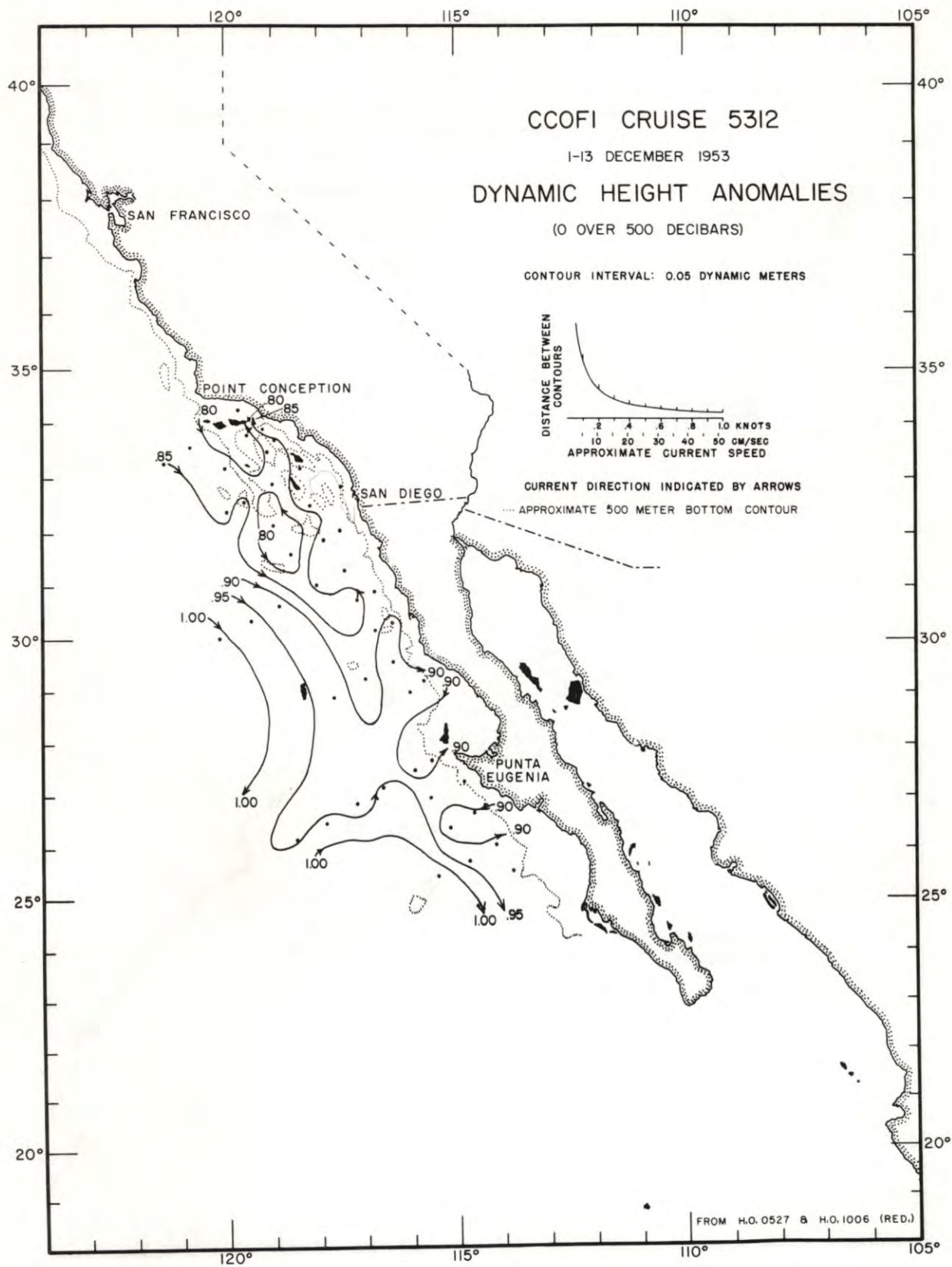


FIGURE 2

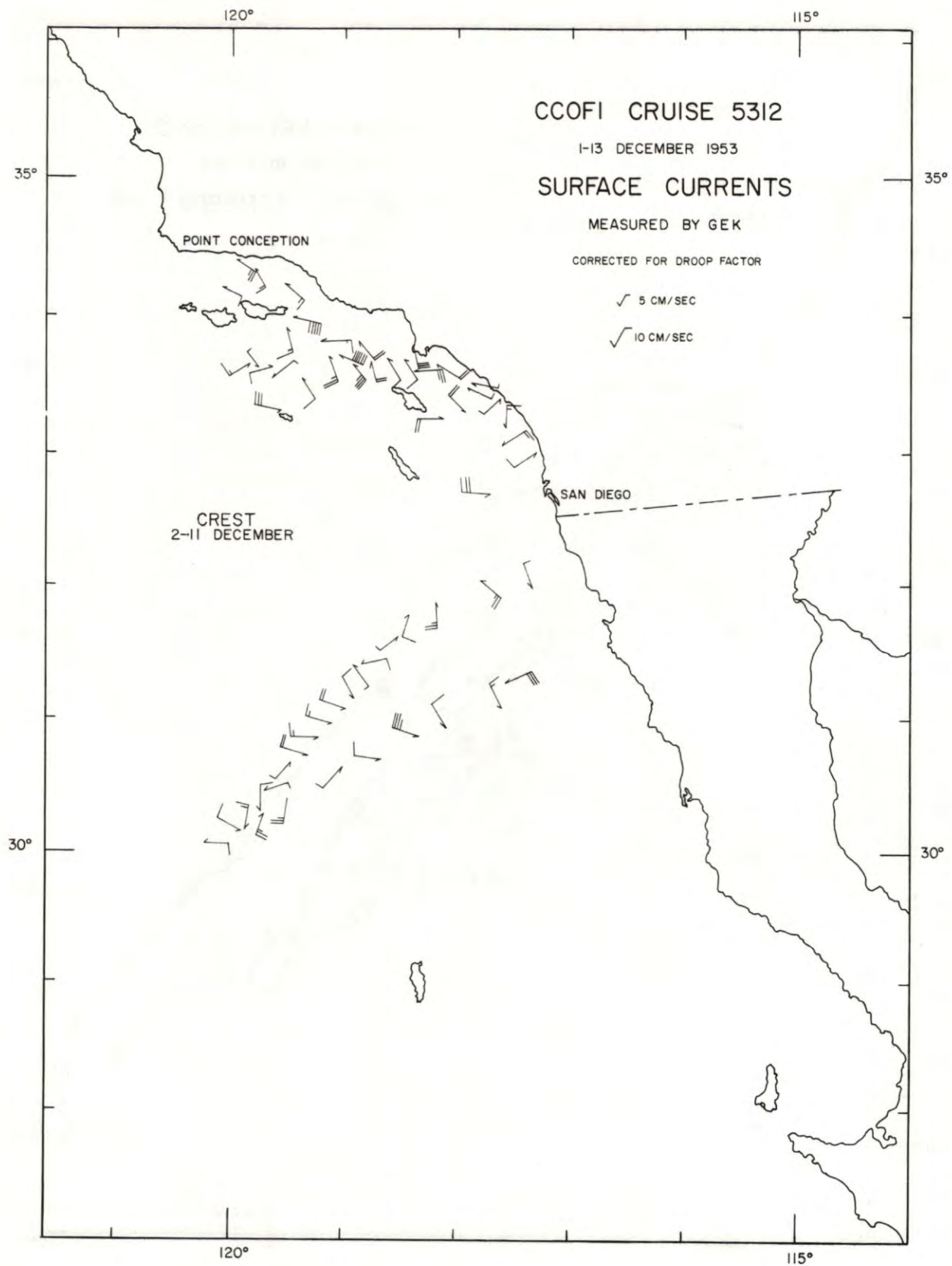


FIGURE 3

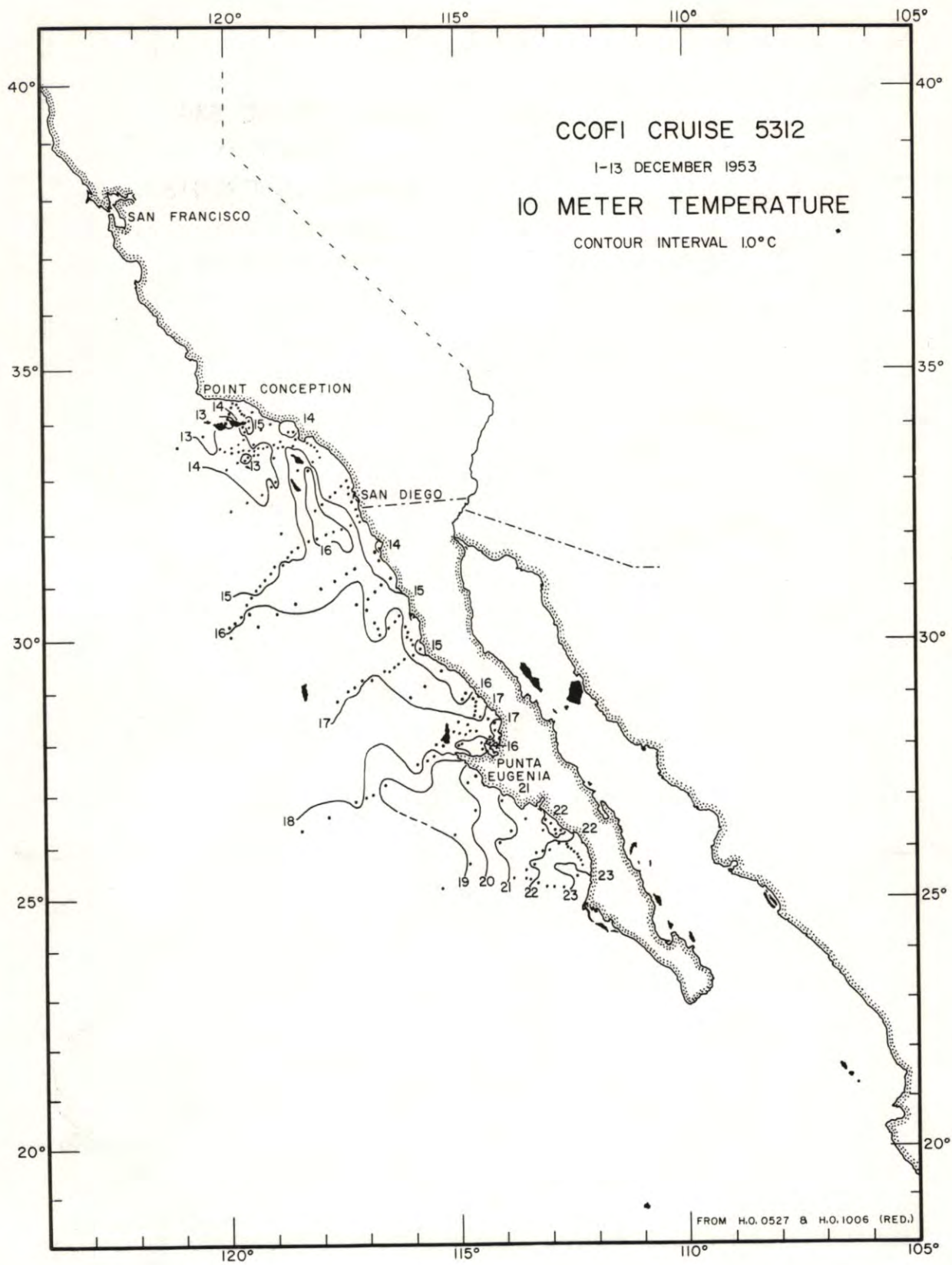


FIGURE 4

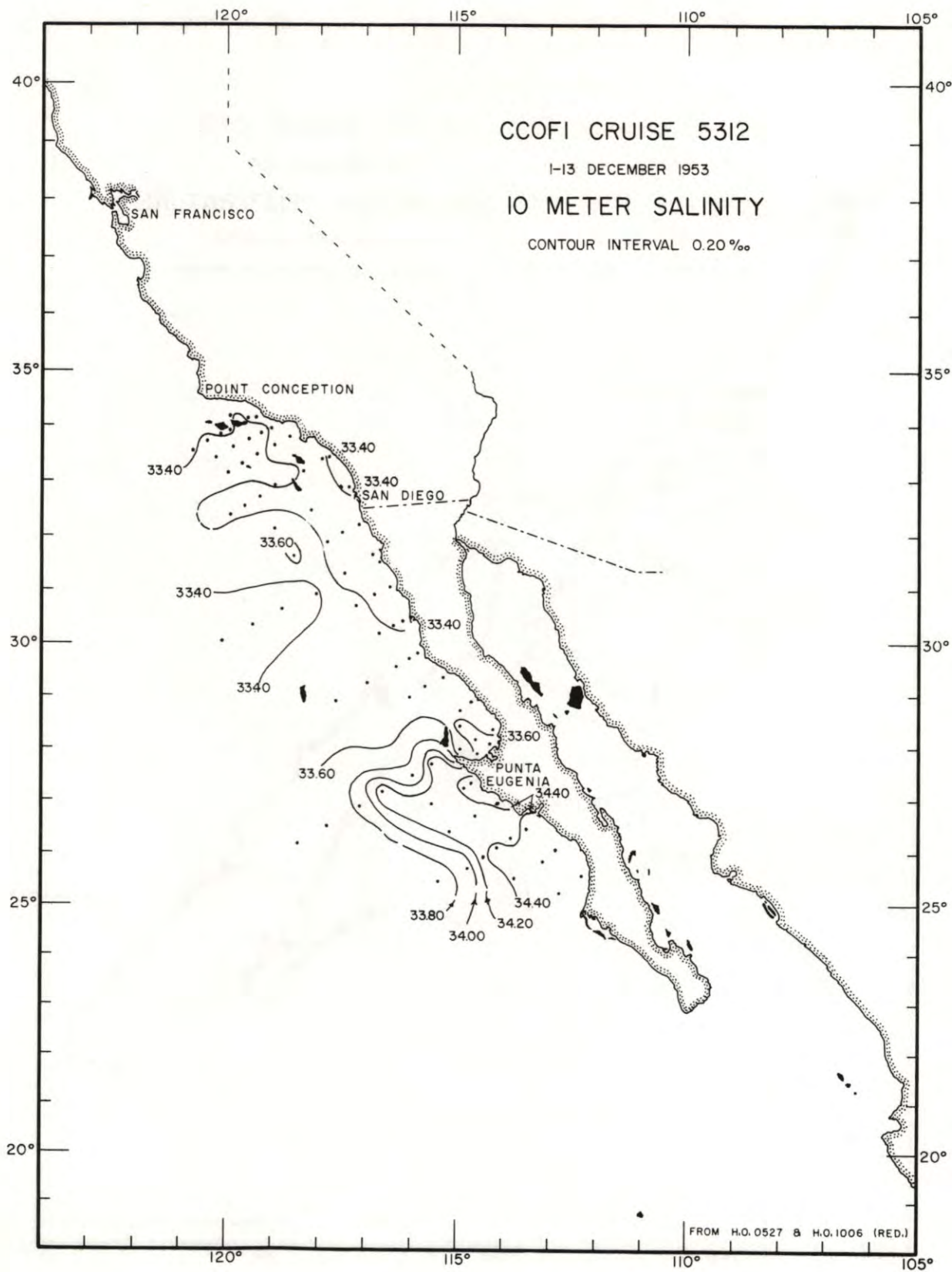


FIGURE 5

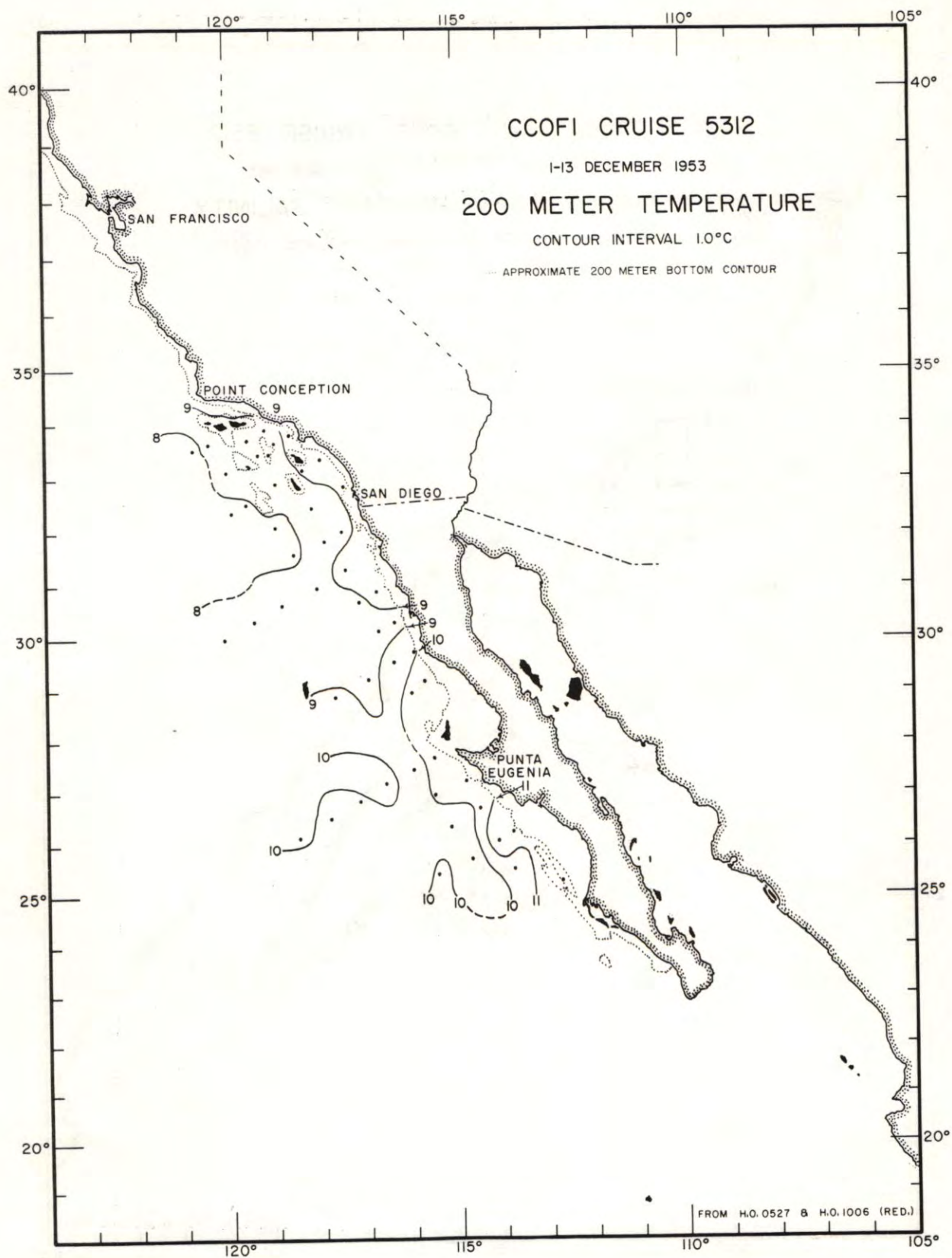


FIGURE 6

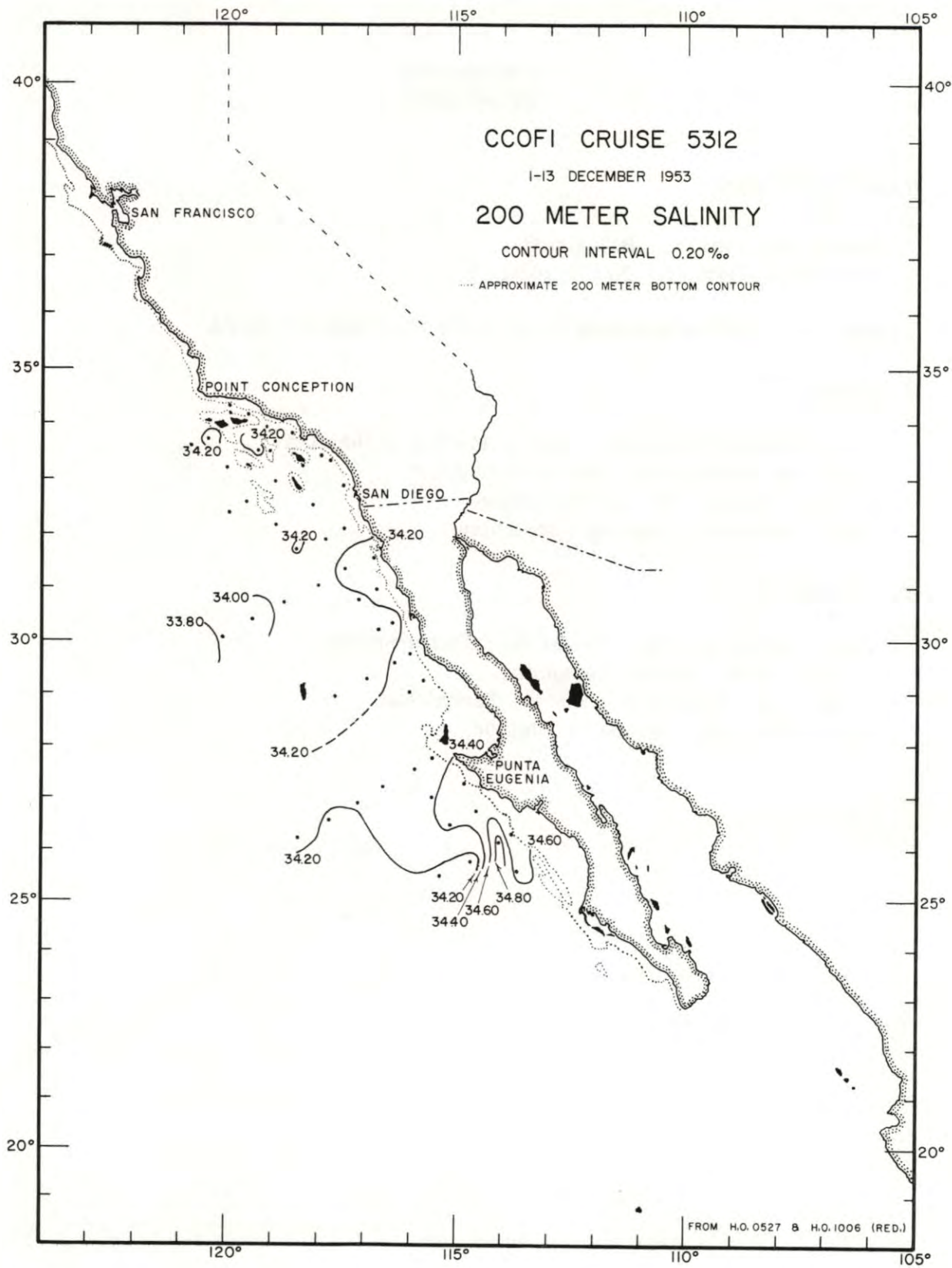


FIGURE 7

CRUISE 5312
PERSONNEL

SHIPS' CAPTAINS

Davis, Laurence E., R/V Crest
Greenway, Glynn C., R/V Paolina-T

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V Crest

Schwartzlose, Richard A., Senior Marine Technician
Anderson, Norman E., Marine Technician
Kivlen, John C., Marine Technician
Lance, James R., Marine Technician

R/V Paolina-T

Payne, Miles M., Jr., Senior Marine Technician
Deacon, Allan, Marine Technician
Greenbaum, Richard H., Marine Technician
Linn, Robert J., Marine Technician

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

CREST; December 3, 1953; 1835 GCT; 34°18'N, 119°58'W; sounding, 290 fm; wind, 060°, force 3; weather, cloudy; sea, moderate; wire angle, 10°.

0	14.07	33.41	0	14.07	33.41	24.97	300	0.00
9	14.08	33.40	10	14.04	33.40	24.96	300	0.03
24	13.32	33.54	20	13.52	33.52	25.16	281	0.06
47	12.16	33.40	30	13.03	33.49	25.24	274	0.09
71	10.72	33.42	50	11.98	33.40	25.37	262	0.75
94	9.94	33.71	75	10.53	33.46	25.68	232	0.81
144	9.86	33.91	100	9.94	33.74	26.00	202	0.87
188	9.48	34.05	150	9.80	33.93	26.17	185	0.36
234	9.05	34.16	200	9.35	34.08	26.36	167	0.46
280	8.53	34.18	250	8.88	34.17	26.51	153	0.54
330	7.82	34.20	300	8.25	34.19	26.62	143	0.61
375	7.28	34.20	400	7.06	34.21	26.81	125	0.75
421	6.92	34.22						

S10
CCOFI
5312

81.46

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

82³47

CREST; December 3, 1953; 1626 GCT; 34°10.5'N, 119°59.5'W; sounding, 325 fm;
wind, 090°, force 3; weather, cloudy; sea, moderate; wire angle, 07°.

0	13.93	33.37	0	13.93	33.37	24.96	300	0.00
9	13.92	33.40	10	13.92	33.40	24.99	298	0.03
20	13.39	33.37	20	13.39	33.37	25.07	290	0.06
34	11.74	33.37	30	12.05	33.37	25.34	264	0.09
48	11.06	33.51	50	10.96	33.53	25.66	234	0.14
61	10.55	33.62	75	10.02	33.74	25.99	202	0.19
75	10.02	33.74	100	9.82	33.78	26.05	197	0.24
94	9.85	33.76	150	9.49	34.03	26.30	173	0.34
117	9.74	33.88	200	9.17	34.10	26.41	163	0.42
144	9.53	34.02	250	8.73	34.12	26.49	155	0.50
190	9.24	34.09	300	8.15	34.17	26.62	143	0.58
236	8.89	34.12	400	7.08	34.29	26.87	119	0.72
283	8.33	34.14	500	6.48	34.23	26.90	116	0.84
380	7.27	34.30						
473	6.53	34.23						
572	6.46	34.23						

8340

CREST; December 4, 1953; 0125 GCT; 34°14'N, 119°22'W; sounding, 12 fm; wind,
300°, force 2; weather, cloudy; sea, slight; wire angle, 00°.

0	14.67	33.38	0	14.67	33.38	24.82	314	0.00
5	14.50	33.40	10	14.34	33.37	24.88	308	0.03
9	14.37	33.37						
14	14.18	33.37						

8343

CREST; December 3, 1953; 2319 GCT; 34°08'N, 119°34'W; sounding, 130 fm; wind,
260°, force 2; weather, cloudy; sea, slight; wire angle, 03°.

0	14.47	33.38	0	14.47	33.38	24.86	310	0.00
9	14.26	33.38	10	14.24	33.38	24.91	305	0.03
19	14.13	33.39	20	14.12	33.39	24.94	302	0.06
48	13.31	33.49	30	13.92	33.43	25.01	296	0.09
73	10.75	33.49	50	13.17	33.49	25.21	277	0.15
95	10.10	33.73	75	10.66	33.49	25.68	232	0.21
147	9.48	34.06	100	10.01	33.78	26.02	200	0.27
193	9.01	34.13	150	9.43	34.07	26.34	169	0.36
			200	(8.94)	(34.14)	(26.48)	(156)	(0.44)

8348

CREST; December 3, 1953; 1400 GCT; 33°58.5'N, 119°55'W; sounding, 75 fm; wind,
290°, force 4; weather, partly cloudy; sea, slight; wire angle, 07°.

0	13.57	33.42	0	13.57	33.42	25.08	289	0.00
9	12.78	33.37	10	12.68	33.37	25.21	277	0.03
19	12.13	33.39	20	12.11	33.40	25.35	263	0.06
28	11.91	33.54	30	11.83	33.53	25.50	249	0.08
47	11.17	33.40	50	11.10	33.41	25.54	245	0.13
73	10.75	33.55	75	(10.79)	(33.56)	(25.71)	(229)	(0.19)

8351

CREST; December 3, 1953; 1126 GCT; 33°52'N, 120°08'W; sounding, 87 fm; wind,
310°, force 5; weather, clear; sea, moderate; wire angle, 05°.

0	13.46	33.40	0	13.46	33.40	25.08	289	0.00
9	13.45	33.39	10	13.43	33.39	25.08	289	0.03
19	12.70	33.37	20	12.45	33.37	25.26	272	0.06
28	10.60	33.46	30	10.53	33.48	25.70	230	0.08
48	10.33	33.62	50	10.32	33.62	25.84	217	0.13
73	10.12	33.62	75	10.12	33.63	25.88	213	0.18
96	10.04	33.94	100	(10.04)	(33.96)	(26.15)	(187)	(0.23)

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

S10
CCOFI
5312

CREST; December 3, 1953; 0815 GCT; 33°44'N, 120°25'W; sounding, 550 fm; wind, 320°, force 6; weather, clear; sea, very rough; wire angle, 22°.

83.55

0	12.76	33.47	0	12.76	33.47	25.28	270	0.00
9	12.76	33.46	10	12.76	33.46	25.27	271	0.03
23	12.76	33.48	20	12.76	33.47	25.28	270	0.05
37	11.94	33.62	30	12.50	33.60	25.43	256	0.08
55	10.17	33.59	50	10.35	33.60	25.82	219	0.13
67	9.96	33.73	75	9.79	33.75	26.03	199	0.18
85	9.62	33.78	100	9.44	33.92	26.22	181	0.23
106	9.40	33.95	150	9.13	34.06	26.38	166	0.32
131	9.35	34.00	200	8.78	34.30	26.63	142	0.40
158	9.06	34.10	250	8.37	34.30	26.69	136	0.47
209	8.73	34.31	300	7.79	34.28	26.76	129	0.54
261	8.23	34.11	400	7.08	34.31	26.89	117	0.66
315	7.68	34.28	500	6.21	34.28	26.98	109	0.78
418	6.93	34.31	600	5.54	34.24	27.03	104	0.90
529	6.00	34.27						
637	5.32	34.23						

CREST; December 3, 1953; 0355 GCT; 33°33.5'N, 120°45.5'W; sounding, 920 fm; wind, 320°, force 7; weather, clear; sea, high; wire angle, 43°.

83.60

0	13.73	33.40	0	13.73	33.40	25.03	294	0.00
11	13.72	33.39	10	13.72	33.39	25.02	295	0.03
22	13.72	33.35	20	13.72	33.36	25.00	297	0.06
36	13.73	33.32	30	13.73	33.33	24.97	300	0.09
47	13.70	33.38	50	13.68	33.38	25.02	295	0.15
62	11.09	33.29	75	9.43	33.31	25.75	225	0.21
79	9.27	33.32	100	8.86	33.52	26.00	202	0.27
100	8.86	33.52	150	8.38	33.83	26.32	171	0.36
122	8.73	33.69	200	7.79	34.07	26.60	145	0.44
164	8.18	33.91	250	7.23	34.04	26.65	140	0.52
186	8.01	34.08	300	6.71	34.12	26.79	127	0.58
206	7.70	33.98r	400	5.94	34.18	26.93	113	0.71
247	7.18	34.04	500	5.56	34.11	26.93	113	0.83
329	6.45	34.16						
416	5.90	34.18						
516	5.53	34.10						

CREST; December 4, 1953; 0352 GCT; 34°00'N, 119°40'W; sounding, 55 fm; wind, 310°, force 2; weather, cloudy; sea, slight; wire angle, 03°.

85.39

0	15.39	33.36	0	15.39	33.36	24.64	331	0.00
9	15.37	33.37	10	15.35	33.37	24.66	329	0.03
19	15.15	33.37	20	15.11	33.36	24.71	324	0.07
28	14.60	33.33	30	14.34	33.33	24.85	311	0.10
48	12.00	33.34	50	11.85	33.35	25.36	262	0.16
73	10.93	33.55	75	(10.89)	(33.57)	(25.70)	(230)	(0.22)

SIO

CCOFI
5312

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

8540

CREST; December 4, 1953; 0543 GCT; 33°56.5'N, 119°11'W; sounding, 405 fm;
wind, 350°, force 1; weather, partly cloudy; sea, slight; wire angle, 01°.

0	15.02	33.35	0	15.02	33.35	24.72	323	0.00
9	15.00	33.42	10	14.99	33.42	24.78	318	0.03
25	14.92	33.35	20	14.94	33.35	24.73	322	0.06
34	14.19	33.39	30	14.83	33.37	24.77	319	0.10
54	12.16	33.30	50	12.75	33.30	25.15	282	0.16
68	11.04	33.39	75	10.85	33.44	25.61	239	0.22
81	10.72	33.47	100	10.23	33.56	25.81	220	0.28
104	10.17	33.59	150	10.01	34.02	26.21	182	0.38
127	10.09	33.85	200	8.92	34.05	26.41	163	0.47
156	10.00	34.03	250	8.80	34.19	26.54	150	0.55
206	8.88	34.05	300	8.26	34.29	26.70	135	0.62
262	8.75	34.22	400	7.22	34.33	26.88	118	0.76
308	8.18	34.30	500	6.43	34.34	27.00	107	0.88
417	7.08	34.33	600	5.88	34.35	27.08	99	0.99
521	6.30	34.34						
627	5.78	34.36						

8545

CREST; December 4, 1953; 1017 GCT; 33°47'N, 119°31.5'W; sounding, 1000 fm;
wind, 350°, force 4; weather, overcast; sea, moderate; wire angle, 15°.

0	13.66	33.47	0	13.66	33.47	25.10	287	0.00
9	13.67	33.47	10	13.67	33.47	25.09	288	0.03
24	11.68	33.47	20	13.25	33.47	25.18	280	0.06
33	10.63	33.57	30	10.97	33.50	25.63	237	0.08
47	10.05	33.61	50	10.00	33.62	25.90	211	0.13
61	9.89	33.66	75	9.53	33.80	26.11	191	0.18
76	9.52	33.80	100	9.36	33.91	26.23	180	0.22
94	9.38	33.86	150	9.14	34.12	26.43	161	0.31
116	9.33	34.02	200	8.93	34.20	26.52	152	0.39
142	9.19	34.10	250	8.51	34.25	26.63	142	0.47
186	9.03	34.18	300	8.05	34.27	26.71	134	0.54
232	8.64	34.05r	400	7.14	34.28	26.85	121	0.67
277	8.29	34.27	500	6.39	34.32	26.99	108	0.79
371	7.37	34.27						
465	6.64	34.31						
563	5.93	34.34						

8550

CREST; December 4, 1953; 1352 GCT; 33°27'N, 119°52'W; sounding, 105 fm; wind,
310°, force 8; weather, clear; sea, high; wire angle, 35°.

0	13.42	33.44	0	13.42	33.44	25.12	285	0.00
8	13.38	33.46	10	13.24	33.46	25.17	280	0.03
21	11.96	33.44	20	12.05	33.44	25.39	260	0.06
24	11.64	33.44	30	11.29	33.45	25.54	245	0.08
39	10.83	33.48	50	10.30	33.54	25.78	222	0.13
60	9.96	33.61	75	9.63	33.80	26.10	192	0.18
80	9.54	33.86						

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

S10
CCOFI
5312

CREST; December 4, 1953; 1825 GCT; 33°27'N, 120°12.5'W; sounding, 650 fm;
wind, 310°, force 9; weather, partly cloudy; sea, high; wire angle, 55°.

85.55

0	13.02	33.45	0	13.02	33.45	25.21	277	0.00
6	13.00	33.68r	10	13.00	33.44	25.21	277	0.03
15	13.02	33.44	20	13.02	33.46	25.22	276	0.06
24	13.00	33.48	30	12.50	33.39	25.26	272	0.08
35	11.85	33.35	50	9.91	33.47	25.75	225	0.13
43	10.22	33.39	75	9.46	33.69	26.04	198	0.19
54	9.79	33.51	100	(9.04)	(33.70)	(26.12)	(190)	(0.24)
68	9.56	33.58						
81	9.37	33.75						
94	9.15	33.71						

CREST; December 6, 1953; 0927 GCT; 33°50'N, 118°37'W; sounding, 289 fm; wind,
030°, force 3; weather, clear; sea, moderate; wire angle, 04°.

87.35

0	13.78	33.40	0	13.78	33.40	25.02	295	0.00
9	13.76	33.64	10	13.74	33.37	25.00	297	0.03
24	13.76	33.35	20	13.76	33.35	24.98	299	0.06
48	11.72	33.37	30	13.36	33.35	25.06	291	0.09
72	11.26	33.42	50	11.68	33.37	25.40	259	0.14
95	10.69	33.53	75	11.19	33.43	25.54	245	0.21
147	9.92	33.81	100	10.58	33.56	25.75	225	0.27
195	9.64	34.05	150	9.90	33.83	26.08	194	0.37
241	9.27	34.16	200	9.62	34.06	26.30	173	0.47
287	8.53	34.27	250	9.14	34.18	26.47	157	0.55
338	7.90	34.26	300	8.35	34.27	26.67	138	0.63
386	7.38	34.28						

CREST; December 6, 1953; 0450 GCT; 33°40'N, 118°58.5'W; sounding, 510 fm; wind,
330°, force 3; weather, clear; sea, moderate; wire angle, 10°.

87.40

0	14.49	33.40	0	14.49	33.40	24.87	309	0.00
9	14.48	33.39	10	14.47	33.39	24.87	309	0.03
19	14.36	33.40	20	14.33	33.40	24.90	306	0.06
33	13.15	33.30	30	13.55	33.31	24.99	298	0.09
52	11.54	33.30	50	11.80	33.30	25.33	265	0.15
67	10.38	33.31	75	10.05	33.33	25.66	234	0.21
80	9.93	33.42	100	9.57	33.60	25.95	206	0.27
104	9.58	33.64	150	9.60	34.01	26.27	176	0.36
126	10.05	33.98	200	8.35	34.10	26.54	150	0.45
153	9.47	34.02	250	8.34	34.19	26.61	144	0.52
201	8.36	34.10	300	8.11	34.24	26.68	137	0.60
256	8.35	34.20	400	7.10	34.36	26.92	114	0.73
301	8.09	34.24	500	6.44	34.35	27.00	107	0.84
405	7.06	34.36	600	5.78	34.39	27.12	95	0.95
506	6.40	34.35						
611	5.70	34.40						

S10

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

87.45

CREST; December 6, 1953; 0105 GCT; 33°29.5'N, 119°18'W; sounding, 920 fm; wind, 340°, force 3; weather, clear; sea, rough; wire angle, 05°.

0	13.18	33.46	0	13.18	33.46	25.19	279	0.00
9	12.94	33.46	10	12.93	33.46	25.23	275	0.03
19	12.90	33.42	20	12.90	33.42	25.21	277	0.06
34	10.38	33.52	30	11.17	33.48	25.58	242	0.08
53	9.67	33.62	50	9.73	33.60	25.93	208	0.13
67	9.44	33.71	75	9.32	33.72	26.09	193	0.18
81	9.26	33.73	100	9.26	33.80	26.16	186	0.22
104	9.26	33.83	150	9.27	34.06	26.36	167	0.32
127	7.78p	33.93	200	8.61	34.21	26.58	146	0.40
155	9.26	34.09	250	8.08	34.22	26.67	138	0.47
205	8.52	34.21	300	7.78	34.25	26.74	131	0.54
261	7.99	34.22	400	7.23	34.28	26.84	122	0.67
308	7.77	34.26	500	6.35	34.35	27.02	105	0.79
413	7.13	34.29	600	5.67				
515	6.22	34.35						
620	5.57	34.26r						

87.50

CREST; December 5, 1953; 2207 GCT; 33°19.5'N, 119°39.5'W; sounding, 40 fm; wind, 010°, force 2; weather, clear; sea, moderate; wire angle, 02°.

0	12.74	33.43	0	12.74	33.43	25.25	273	0.00
9	12.61	33.44	10	12.59	33.44	25.29	269	0.03
19	12.52	33.44	20	12.51	33.44	25.30	268	0.05
29	12.53	33.48	30	(12.55)	(33.44)	(25.29)	(269)	(0.08)

87.55

CREST; December 5, 1953; 1903 GCT; 33°10'N, 120°30'W; sounding, 730 fm; wind, 330°, force 4; weather, clear; sea, very rough; wire angle, 29°.

0	14.00	33.44	0	14.00	33.44	25.00	297	0.00
8	14.01	33.42	10	14.02	33.42	24.98	299	0.03
17	14.02	33.44	20	14.02	33.44	25.00	297	0.06
30	14.00	33.44	30	14.00	33.44	25.00	297	0.09
47	13.57	33.40	50	12.50	33.40	25.27	271	0.15
58	10.79	33.44	75	9.90	33.62	25.91	210	0.21
71	10.03	33.58	100	9.16	33.75	26.14	188	0.26
105p	9.06	33.77	150	8.47	33.89	26.35	168	0.35
157p	8.42	33.91	200	8.20	34.01	26.49	155	0.43
273p	7.80	34.14	250	7.94	34.10	26.60	145	0.51
369p	7.08	34.22	300	7.61	34.17	26.70	135	0.58
468p	6.36	34.21	400	6.84	34.22	26.85	121	0.71
			500	(6.14)	(34.21)	(26.93)	(113)	(0.84)

90.28

CREST; December 6, 1953; 1515 GCT; 33°28.5'N, 117°46.5'W; sounding, 160 fm; wind, 150°, force 2; weather, partly cloudy; sea, slight; wire angle, 04°.

0	14.29	33.40	0	14.29	33.40	24.91	305	0.00
9	14.26	33.49	10	14.26	33.48	24.98	299	0.03
24	14.25	33.40	20	14.27	33.42	24.93	303	0.06
49	12.55	33.37	30	13.79	33.38	25.00	297	0.09
73	11.86	33.51	50	12.51	33.37	25.25	273	0.15
96	11.38	33.71	75	11.81	33.53	25.50	249	0.21
148	9.88	33.86	100	11.22	33.72	25.76	224	0.27
194	9.36	34.04	150	9.84	33.87	26.12	190	0.38
241	9.14	34.23	200	9.32	34.07	26.36	167	0.47
			250	(9.13)	(34.25)	(26.53)	(151)	(0.55)

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

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CREST; December 6, 1953; 1731 GCT; 33°24.5'N, 117°55'W; sounding, 335 fm; wind, calm; weather, partly cloudy; sea, slight; wire angle, 00°.

9030

0	14.34	33.36	0	14.34	33.36	24.87	309	0.00
9	14.30	33.37	10	14.30	33.37	24.89	307	0.03
24	14.28	33.35	20	14.27	33.36	24.88	308	0.06
48	11.46	33.16	30	13.90	33.30	24.92	304	0.09
72	10.45	33.42	50	11.10	33.16	25.35	263	0.15
95	10.62	33.73	75	10.46	33.50	25.72	228	0.21
146	9.84	33.95	100	10.61	33.76	25.90	211	0.27
192	9.58	34.14	150	9.80	33.97	26.20	183	0.37
238	9.23	34.25	200	9.50	34.16	26.40	164	0.45
286	8.84	34.37	250	9.14	34.29	26.56	148	0.54
337	8.13	34.31	300	8.64	34.35	26.69	136	0.61
385	7.63	34.42	400	7.51	34.40	26.90	116	0.74
431	7.24	34.32	500	(6.54)	(34.34)	(26.98)	(109)	(0.86)
478	6.76	34.33						

CREST; December 6, 1953; 2137 GCT; 33°11'N, 118°23'W; sounding, 610 fm; wind, 270°, force 3; weather, clear; sea, slight; wire angle, 13°.

9037

0	15.98	33.42	0	15.98	33.42	24.56	339	0.00
9	15.83	33.40	10	15.83	33.40	24.58	337	0.03
19	15.82	33.38	20	15.82	33.38	24.56	339	0.07
33	15.76	33.43	30	15.79	33.43	24.61	334	0.10
47	11.92	33.12	50	11.60	33.12	25.23	275	0.16
61	10.91	33.14	75	10.44	33.35	25.62	238	0.23
75	10.44	33.35	100	9.94	33.60	25.89	212	0.28
93	9.96	33.55	150	9.70	33.97	26.22	181	0.38
116	9.96	33.74	200	9.42	34.18	26.43	161	0.47
142	9.76	33.93	250	8.83	34.22	26.56	148	0.55
186	9.54	34.13	300	8.07	34.22	26.67	138	0.62
229	9.14	34.23	400	7.04	34.29	26.88	118	0.76
274	8.42	34.21	500	6.37	34.34	27.01	106	0.88
368	7.30	34.27						
459	6.66	34.33						
557	5.98	34.36						

CREST; December 7, 1953; 1425 GCT; 32°54.5'N, 118°56'W; sounding, 930 fm; wind, 320°, force 5; weather, overcast; sea, very rough; wire angle, 33°.

9045

0	13.96	33.46	0	13.96	33.46	25.03	294	0.00
7	13.98	33.40	10	13.98	33.40	24.98	299	0.03
21	13.98	33.40	20	13.98	33.40	24.98	299	0.06
45	11.16	33.54	30	13.25	33.46	25.17	280	0.09
64	10.34	33.58	50	10.83	33.55	25.70	230	0.14
88	9.96	33.68	75	10.14	33.63	25.88	213	0.20
129	9.41	33.90	100	9.76	33.74	26.03	199	0.25
167	9.18	34.04	150	9.28	34.00	26.31	172	0.34
213	8.49	34.09	200	8.68	34.08	26.47	157	0.42
249	8.18	34.17	250	8.15	34.17	26.62	143	0.50
336	7.84	34.27	300	8.00	34.25	26.71	134	0.57
419	7.04	34.26	400	7.23	34.26	26.83	123	0.71
503	6.31	34.31	500	6.36	34.31	26.98	109	0.83
670	5.24	34.41	600	5.69	34.37	27.12	95	0.94
850	4.38	34.45	700	5.08	34.42	27.23	85	1.04
1032	3.96	34.24r	800	4.56	34.45	27.31	77	1.13
			1000	4.02	(34.45)	(27.37)	(72)	(1.29)

S10

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5312

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

90.50

CREST; December 7, 1953; 1804 GCT; 32°44.5'N, 119°16.5'W; sounding, 170 fm;
wind, 310°, force 6; weather, partly cloudy; sea, very rough; wire angle, 30°.

0	13.46	33.31	0	13.46	33.31	25.01	296	0.00
8	13.46	33.30	10	13.44	33.31	25.02	295	0.03
17	13.46	33.37	20	13.47	33.36	25.05	292	0.06
25	13.44	33.34	30	13.28	33.34	25.07	290	0.09
42	12.80	33.34	50	12.48	33.32	25.21	277	0.14
65	11.84	33.29	75	11.08	33.32	25.47	252	0.21
86	10.40	33.40	100	9.82	33.56	25.88	213	0.27
109	9.55	33.66						

90.55

CREST; December 7, 1953; 2155 GCT; 32°34'N, 119°35.5'W; sounding, 650 fm; wind,
300°, force 5; weather, partly cloudy; sea, high; wire angle, 50°.

0	14.56	33.39	0	14.56	33.39	24.85	311	0.00
8	14.55	33.38	10	14.54	33.38	24.84	312	0.03
20	14.53	33.41	20	14.52	33.41	24.87	309	0.06
40	14.25	33.39	30	14.44	33.41	24.89	307	0.09
55	13.76	33.32	50	13.98	33.35	24.94	302	0.15
72	11.50	33.12	75	11.20	33.12	25.30	268	0.23
110	9.49	33.42	100	9.77	33.30	25.68	232	0.29
141	9.01	33.79	150	8.88	33.86	26.27	176	0.39
173	8.39	33.98	200	7.96	34.05	26.56	148	0.48
208	7.86	34.07	250	7.44	34.15	26.71	134	0.55
276	7.22	34.18	300	7.00	34.18	26.79	127	0.62
347	6.60	34.19	400	6.39	34.25	26.93	113	0.74
420	6.31	34.27	500	5.89	34.34	27.07	100	0.85
494	5.91	34.33	600	5.38	34.39	27.17	91	0.96
575	5.50	34.38	700	4.94	34.41	27.24	84	1.05
745	4.76	34.42						

90.60

CREST; December 8, 1953; 0142 GCT; 32°25'N, 119°57.5'W; sounding, 470 fm; wind,
310°, force 7; weather, clear; sea, high; wire angle, 28°.

0	14.48	33.37	0	14.48	33.37	24.85	311	0.00
8	14.49	33.37	10	14.48	33.38	24.86	310	0.03
17	14.49	33.39	20	14.49	33.39	24.86	310	0.06
31	14.52	33.36	30	14.52	33.36	24.83	313	0.09
43	14.50	33.38	50	13.55	33.36	25.04	293	0.15
58	12.22	33.27	75	10.32	33.19	25.51	248	0.22
71	10.58	33.18	100	9.36	33.64	26.02	200	0.28
90	9.57	33.51	150	8.63	34.01	26.42	162	0.37
162	8.46	34.04	200	7.98	34.09	26.58	146	0.45
214	7.82	34.12	250	7.45	34.18	26.73	132	0.52
266	7.32	34.20	300	7.06	34.24	26.83	123	0.59
318	6.92	34.26	400	6.26	34.27	26.96	110	0.71
418	6.18	34.28	500	5.82	34.32	27.06	101	0.82
526	5.70	34.33	600	5.31				
631	5.13	34.14r						

93.27

CREST; December 8, 1953; 2144 GCT; 32°56'N, 117°18.5'W; sounding, 50 fm; wind,
320°, force 3; weather, clear; sea, moderate; wire angle, 08°.

0	14.76	33.40	0	14.76	33.40	24.81	315	0.00
9	14.54	33.42	10	14.51	33.42	24.88	308	0.03
19	14.04	33.40	20	14.02	33.40	24.97	300	0.06
28	13.82	33.37	30	13.65	33.35	25.01	296	0.09
48	12.26	33.19	50	12.18	33.19	25.17	280	0.15
72	11.49	33.40	75	(11.42)	(33.43)	(25.50)	(249)	(0.22)

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

S10
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5312

CREST; December 8, 1953; 1944 GCT; 32°51.5'N, 117°31.5'W; sounding, 450 fm;
wind, 360°, force 3; weather, cloudy; sea, moderate; wire angle, 07°.

9330

0	14.44	33.41	0	14.44	33.41	24.89	307	0.00
9	14.22	33.40	10	14.22	33.40	24.93	303	0.03
19	14.18	33.40	20	14.18	33.40	24.93	303	0.06
34	12.37	33.36	30	12.95	33.36	25.15	282	0.09
53	11.43	33.40	50	11.57	33.39	25.44	255	0.14
66	10.92	33.45	75	10.71	33.50	25.68	232	0.20
80	10.64	33.53	100	10.28	33.70	25.91	210	0.26
103	10.22	33.73	150	9.82	33.94	26.18	184	0.36
126	10.06	33.84	200	9.03	34.06	26.40	164	0.45
154	9.78	33.95	250	8.81	34.26	26.59	146	0.53
204	9.00	34.07	300	8.27	34.21	26.63	142	0.60
260	8.74	34.27	400	7.08	34.26	26.85	121	0.74
307	8.18	34.20	500	6.27	34.33	27.01	106	0.86
415	6.94	34.27	600	5.60	34.36	27.12	95	0.97
517	6.16	34.34						
621	5.48	34.36						

CREST; December 8, 1953; 1421 GCT; 32°31'N, 118°10'W; sounding, 960 fm; wind,
320°, force 2; weather, partly cloudy; sea, rough; wire angle, 10°.

9340

0	16.20	33.35	0	16.20	33.35	24.45	349	0.00
9	16.20	33.36	10	16.20	33.36	24.46	348	0.04
24	16.21	33.40	20	16.20	33.40	24.49	345	0.07
39	15.62	33.40	30	16.18	33.40	24.50	344	0.10
57	11.52	33.06	50	12.60	33.08	25.01	296	0.17
71	11.12	33.21	75	11.02	33.25	25.43	256	0.24
89	10.32	33.37	100	9.80	33.52	25.85	216	0.30
112	9.39	33.65	150	8.82	33.90	26.31	172	0.40
139	8.87	33.86	200	8.43	34.12	26.54	150	0.48
167	8.76	33.96	250	7.92	34.22	26.69	136	0.55
222	8.19	34.19	300	7.56	34.23	26.75	130	0.62
277	7.70	34.24	400	6.89	34.27	26.88	118	0.75
333	7.38	34.22	500	6.16	34.33	27.02	105	0.87
440	6.60	34.30	600	5.53	34.37	27.14	93	0.97
553	5.80	34.35						
662	5.26	34.42						

CREST; December 8, 1953; 0838 GCT; 32°10'N, 118°53.5'W; sounding, 800 fm; wind,
320°, force 6; weather, clear; sea, high; wire angle, 31°.

9350

0	15.10	33.52	0	15.10	33.52	24.83	313	0.00
7	15.12	33.48	10	15.12	33.48	24.80	316	0.03
21	15.12	33.50	20	15.12	33.50	24.81	315	0.06
34	15.11	33.41	30	15.12	33.42	24.75	320	0.10
51	10.75	33.46	50	10.90	33.46	25.62	238	0.15
79	9.66	33.69	75	9.74	33.67	25.98	204	0.21
98	9.31	33.78	100	9.28	33.79	26.15	187	0.26
122	8.87	33.94	150	8.58	34.08	26.48	156	0.34
148	8.60	34.08	200	7.78	34.03	26.57	148	0.42
195	7.84	34.03	250	7.32	34.14	26.72	133	0.49
246	7.38	34.13	300	6.94	34.21	26.83	123	0.56
295	6.97	34.20	400	6.65	34.32	26.95	111	0.68
395	6.68	34.32	500	6.11	34.34	27.04	103	0.79
505	6.07	34.34	600	5.48	34.33	27.11	96	0.90
612	5.40	34.33						

S10

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5312

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

97.30

CREST; December 9, 1953; 0314 GCT; 32°15'N, 117°09'W; sounding, 33 fm; wind, 350°, force 3; weather, clear; sea, moderate; wire angle, 00°.

0	14.42	33.33	0	14.42	33.33	24.83	313	0.00
9	14.44	33.32	10	14.43	33.32	24.82	314	0.03
19	14.40	33.32	20	14.39	33.32	24.83	313	0.06
29	14.12	33.35						

97.35

CREST; December 9, 1953; 0551 GCT; 32°05.5'N, 117°29'W; sounding, 670 fm; wind, 010°, force 3; weather, clear; sea, slight; wire angle, 13°.

0	16.48	33.38	0	16.48	33.38	24.41	353	0.00
9	16.50	33.38	10	16.50	33.38	24.41	353	0.04
19	16.51	33.38	20	16.51	33.38	24.41	353	0.07
33	16.30	33.35	30	16.41	33.36	24.41	353	0.11
47	15.69	33.32	50	15.30	33.30	24.62	333	0.18
61	13.21	33.23	75	11.85	33.32	25.33	265	0.25
74	11.90	33.31	100	10.53	33.56	25.76	224	0.31
92	10.62	33.48	150	9.02	33.81	26.20	183	0.41
116	10.43	33.70	200	8.58	34.07	26.48	156	0.50
142	9.12	33.78	250	8.00	34.12	26.60	145	0.58
187	8.66	34.02	300	7.30	34.12	26.71	134	0.65
231	8.39	34.12	400	6.51	34.23	26.90	116	0.78
277	7.54	34.11	500	6.04	34.31	27.02	105	0.90
372	6.67	34.20						
464	6.24	34.29						
562	5.70	34.34						

97.40

CREST; December 9, 1953; 0912 GCT; 31°55'N, 117°50'W; sounding, 740 fm; wind, 020°, force 3; weather, clear; sea, slight; wire angle, 14°.

0	16.24	33.44	0	16.24	33.44	24.51	343	0.00
9	16.25	33.40	10	16.24	33.40	24.48	346	0.03
19	16.24	33.40	20	16.24	33.40	24.48	346	0.07
34	16.22	33.39	30	16.23	33.39	24.48	346	0.10
53	12.36	33.09	50	13.00	33.09	24.94	302	0.17
66	10.94	33.13	75	10.42	33.30	25.58	242	0.24
80	10.24	33.35	100	9.73	33.47	25.82	219	0.30
104	9.62	33.49	150	8.99	33.89	26.27	176	0.40
126	9.25	33.66	200	8.31	34.01	26.47	157	0.48
154	8.92	33.91	250	7.88	34.11	26.61	144	0.56
205	8.25	34.02	300	7.11	34.14	26.75	130	0.63
262	7.71	34.13	400	6.34	34.24	26.93	113	0.75
308	7.02	34.14	500	5.96	34.32	27.04	103	0.87
417	6.28	34.25	600	5.39	34.39	27.17	91	0.97
523	5.85	34.34						
628	5.20	34.40						

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

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5312

CREST; December 9, 1953; 1430 GCT; 31°39'N, 118°32.5'W; sounding, 1060 fm;
wind, 020°, force 3; weather, clear; sea, moderate; wire angle, 05°.

97.50

0	14.68	33.62	0	14.68	33.62	25.00	297	0.00
9	14.68	33.62	10	14.68	33.62	25.00	297	0.03
19	14.68	33.64	20	14.68	33.64	25.01	296	0.06
33	12.48	33.58	30	13.20	33.58	25.27	271	0.09
52	9.56	33.78	50	9.65	33.78	26.08	194	0.13
66	9.37	33.78	75	9.26	33.81	26.17	185	0.18
79	9.24	33.83	100	8.79	33.95	26.35	168	0.23
103	8.76	33.96	150	8.24	34.08	26.54	150	0.31
126	8.61	34.01	200	7.95	34.20	26.67	138	0.38
153	8.20	34.09	250	7.78	34.22	26.71	134	0.45
203	7.94	34.20	300	7.05	34.22	26.82	124	0.52
260	7.71	34.22	400	6.42	34.27	26.94	112	0.64
306	7.00	34.22	500	5.76	34.30	27.05	102	0.75
413	6.34	34.27	600	5.30	34.35	27.15	92	0.86
517	5.67	34.31						
622	5.23	34.37						

CREST; December 11, 1953; 1220 GCT; 31°42'N, 116°43.5'W; sounding, 50 fm; wind,
090°, force 3; weather, clear; sea, moderate; wire angle, 01°.

100.29

0	14.12	33.39	0	14.12	33.39	24.94	302	0.00
9	13.82	33.39	10	13.78	33.39	25.01	296	0.03
19	13.26	33.44	20	12.19	33.44	25.17	280	0.06
28	12.68	33.39	30	12.61	33.39	25.24	274	0.09
48	12.14	33.44	50	12.09	33.45	25.39	260	0.14
73	11.46	33.55	75	(11.40)	(33.56)	(25.60)	(240)	(0.20)

CREST; December 11, 1953; 1100 GCT; 31°40.5'N, 116°47'W; sounding, 238 fm;
wind, 120°, force 2; weather, clear; sea, moderate; wire angle, 01°.

100.30

0	14.38	33.33	0	14.38	33.33	24.84	312	0.00
9	14.36	33.31	10	14.31	33.30	24.83	313	0.03
25	12.64	33.14	20	13.14	33.17	24.97	300	0.06
49	11.34	33.22	30	12.24	33.14	25.12	285	0.09
73	11.54	33.62	50	11.35	33.23	25.36	262	0.15
96	11.08	33.69	75	11.55	33.63	25.63	237	0.21
147	10.54	33.96	100	11.02	33.70	25.78	222	0.27
190	9.90	34.34	150	10.50	33.99	26.10	192	0.37
242	9.14	34.23	200	9.72	34.34	26.50	154	0.46
287	8.60	34.27	250	9.03	34.23	26.53	151	0.54
339	8.04	34.24	300	8.45	34.27	26.65	140	0.61

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5312

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

100.40

CREST; December 11, 1953; 0505 GCT; 31°21'N, 117°27'W; sounding, 1050 fm;
wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 08°.

0	15.01	33.39	0	15.01	33.39	24.75	320	0.00
9	14.98	33.33	10	14.96	33.32	24.71	324	0.03
29	12.30	33.11	20	13.80	33.14	24.81	315	0.06
58	11.54	33.50	30	12.22	33.11	25.10	287	0.09
86	11.20	33.67	50	11.70	33.40	25.42	257	0.15
108	10.86	33.77	75	11.33	33.61	25.65	235	0.21
171	10.13	34.13	100	10.99	33.74	25.82	219	0.27
227	9.76	34.29	150	10.32	34.03	26.16	186	0.37
283	9.23	34.32	200	9.92	34.23	26.38	166	0.46
339	7.90	34.27	250	9.59	34.31	26.50	154	0.54
446	6.98	34.25	300	8.89	34.31	26.62	143	0.62
557	5.96	34.35	400	7.39	34.25	26.79	127	0.76
665	5.34	34.38	500	6.41	34.30	26.97	110	0.88
884	4.41	34.45	600	5.68	34.36	27.11	96	1.00
1096	3.74	34.48	700	5.18	34.39	27.19	89	1.10
1301	3.27	34.54	800	4.72	34.43	27.28	80	1.19
			1000	4.03	34.46	27.38	71	1.36

100.50

CREST; December 10, 1953; 2352 GCT; 31°00'N, 118°00'W; sounding, 930 fm; wind,
320°, force 5; weather, clear; sea, rough; wire angle, 28°.

0	15.56	34.36r	0	15.56	(33.39)	(24.63)	(332)	(0.00)
8	15.56	33.39	10	15.54	33.39	24.63	332	0.03
22	15.50	33.26	20	15.51	33.26	24.54	340	0.07
35	15.34	33.32	30	15.44	33.31	24.59	336	0.10
52	12.08	33.25	50	12.45	33.25	25.17	280	0.16
65	11.17	33.33	75	10.30	33.36	25.64	236	0.23
81	10.00	33.37	100	9.58	33.48	25.86	215	0.28
101	9.52	33.48	150	8.64	33.85	26.30	173	0.38
124	9.00	33.73	200	8.37	34.07	26.51	153	0.47
150	8.64	33.85	250	7.92	34.18	26.66	139	0.54
196	8.40	34.05	300	7.67	34.23	26.74	131	0.61
244	7.98	34.17	400	6.80	34.34	26.95	111	0.74
291	7.71	34.22	500	5.98	(34.33)	(27.05)	(102)	(0.85)
386	6.96	34.34	600	(5.47)				
489	6.03	34.33						
595	5.49	34.16r						

100.60

CREST; December 10, 1953; 1810 GCT; 30°39.5'N, 118°47'W; sounding, 1520 fm;
wind, 320°, force 5; weather, clear; sea, rough; wire angle, 35°.

0	15.90	33.28	0	15.90	33.28	24.47	347	0.00
7	15.90	33.24	10	15.90	33.24	24.44	350	0.04
20	15.90	33.28	20	15.90	33.28	24.47	347	0.07
44	15.92	33.26	30	15.91	33.27	24.46	348	0.10
64	12.52	33.03	50	15.93	33.24	24.43	351	0.18
87	10.65	32.98	75	11.25	32.99	25.19	279	0.25
129	9.40	33.49	100	10.18	33.02	25.40	259	0.32
168	8.70	33.82	150	8.90	33.68	26.12	190	0.44
211	8.84	34.07	200	8.83	34.05	26.42	162	0.52
245	7.86	34.04	250	7.81	34.04	26.57	148	0.60
325	7.63	34.24	300	7.68	34.17	26.69	136	0.68
403	7.10	34.31	400	7.12	34.31	26.88	118	0.81
480	6.27	34.28	500	6.10	34.29	27.00	107	0.93
636	5.29	34.40	600	5.45	34.38	27.15	92	1.04
800	4.74	34.43	700	5.07	34.42	27.23	85	1.13
977	4.08	34.46	800	4.74	34.43	27.27	81	1.22
			1000	(3.98)	(34.46)	(27.38)	(71)	(1.39)

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

S10
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5312

CREST; December 10, 1953; 1217 GCT; 30°21.5'N, 119°26.5'W; sounding, 2100 fm; wind, 330°, force 4; weather, clear; sea, rough; wire angle, 18°.

10070

0	16.14	33.28	0	16.14	33.28	24.41	353	0.00
9	16.14	33.27	10	16.14	33.27	24.41	353	0.04
18	16.14	33.27	20	16.13	33.27	24.41	353	0.07
32	16.10	33.26	30	16.10	33.26	24.41	353	0.11
51	16.14	33.28	50	16.14	33.28	24.41	353	0.18
64	15.28	33.24	75	12.86	33.06	24.94	302	0.26
77	12.84	33.06	100	11.59	33.08	25.20	278	0.33
100	11.59	33.08	150	9.41	33.47	25.88	213	0.46
121	10.46	33.13	200	8.47	33.87	26.34	169	0.55
149	9.46	33.46	250	7.93	34.04	26.55	149	0.64
197	8.50	33.85	300	7.28	34.07	26.67	138	0.71
249	7.94	34.04	400	6.25	34.19	26.90	116	0.84
294	7.36	34.06	500	5.95	(34.29)	(27.02)	(105)	(0.96)
398	6.28	34.18	600	5.46				
498	5.98	34.29						
601	5.46	34.14r						

CREST; December 10, 1953; 0627 GCT; 30°01'N, 120°07'W; sounding, 2200 fm; wind, 340°, force 5; weather, clear; sea, rough; wire angle, 20°.

10080

0	16.30	33.25	0	16.30	33.25	24.36	358	0.00
8	16.30	33.20	10	16.30	33.21	24.32	361	0.04
23	16.18	33.22	20	16.21	33.22	24.35	359	0.07
51	16.12	33.22	30	16.16	33.22	24.36	358	0.11
72	14.70	33.12	50	16.12	33.22	24.37	357	0.18
101	12.82	33.15	75	14.50	33.12	24.65	330	0.27
149	9.76	33.18	100	12.91	33.15	25.00	297	0.34
195	8.84	33.75	150	9.76	33.18	25.59	240	0.48
246	8.14	34.02	200	8.77	33.81	26.24	179	0.59
288	7.64	34.02	250	8.09	34.02	26.51	153	0.67
391	6.56	34.14	300	7.50	34.03	26.61	144	0.75
480	6.17	34.31	400	6.52	34.16	26.84	122	0.89
574	5.72	34.34	500	6.08	34.32	27.03	104	1.00
759	4.82	34.40	600	5.59	34.35	27.11	96	1.11
1011	4.08	34.47	700	5.09	34.38	27.20	88	1.21
1213	3.61	34.49	800	4.67	34.42	27.27	81	1.30
			1000	4.11	34.47	27.38	71	1.47

CREST; December 11, 1953; 1718 GCT; 31°05'N, 116°25'W; sounding, 40 fm; wind, 050°, force 5; weather, clear; sea, moderate; wire angle, 12°.

10330

0	14.34	33.37	0	14.34	33.37	24.88	308	0.00
9	14.31	33.33	10	14.31	33.32	24.85	311	0.03
19	14.28	33.30	20	14.27	33.30	24.84	312	0.06
28	13.98	33.33	30	13.86	33.34	24.95	301	0.09
47	12.87	33.41						

S10

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5312

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

10335

CREST; December 11, 1953; 2007 GCT; 30°55.5'N, 116°45'W; sounding, 1000 fm;
wind, 040°, force 4; weather, clear; sea, rough; wire angle, 00°.

0	15.43	33.34	0	15.43	33.34	24.62	333	0.00
10	15.40	33.37	10	15.40	33.37	24.65	330	0.03
20	15.32	33.37	20	15.32	33.37	24.67	328	0.07
34	14.66	33.33	30	15.09	33.35	24.70	325	0.10
54	12.80	33.32	50	13.20	33.32	25.07	290	0.16
68	11.68	33.41	75	11.35	33.47	25.54	245	0.23
82	11.19	33.53	100	10.83	33.61	25.74	226	0.29
106	10.74	33.64	150	10.12	34.04	26.20	183	0.39
129	10.31	33.87	200	9.88	34.25	26.41	163	0.48
157	10.06	34.09	250	9.57	34.40	26.58	146	0.56
206	9.84	34.27	300	8.95	34.38	26.66	139	0.63
262	9.54	34.41	400	7.30	34.35	26.89	117	0.77
307	8.86	34.37	500	6.26	34.29	26.98	109	0.89
419	7.05	34.34	600	5.66	34.37	27.12	95	1.00
515	6.14	34.29						
620	5.56	34.40						

10340

CREST; December 11, 1953; 2311 GCT; 30°46.5'N, 117°08'W; sounding, 950 fm;
wind, 300°, force 3; weather, partly cloudy; sea, rough; wire angle, 09°.

0	16.10	33.40	0	16.10	33.40	24.52	342	0.00
9	16.04	33.42	10	16.02	33.43	24.56	339	0.03
19	15.95	33.49	20	15.94	33.49	24.62	333	0.07
34	14.17	33.35	30	15.42	33.39	24.66	329	0.10
53	11.64	33.30	50	12.04	33.30	25.28	270	0.16
67	11.02	33.39	75	10.53	33.51	25.72	228	0.22
81	10.36	33.57	100	10.11	33.72	25.96	205	0.28
105	10.08	33.75	150	8.81	33.94	26.34	169	0.37
127	9.67	33.98	200	8.77	34.17	26.53	151	0.46
156	8.78	33.93	250	8.62	34.30	26.65	140	0.53
207	8.78	34.20	300	8.07	34.33	26.76	129	0.60
263	8.52	34.31	400	7.09	34.33	26.90	116	0.73
309	7.99	34.33	500	6.27	34.35	27.03	104	0.84
417	6.93	34.33	600	5.64	34.40	27.15	92	0.95
519	6.16	34.35						
625	5.51	34.42						

10732

CREST; December 12, 1953; 0956 GCT; 30°26.5'N, 116°11'W; sounding, 310 fm;
wind, 120°, force 3; weather, clear; sea, moderate; wire angle, 00°.

0	16.33	33.39	0	16.33	33.39	24.46	348	0.00
9	16.33	33.39	10	16.30	33.39	24.46	348	0.03
25	15.02	33.40	20	15.42	33.40	24.67	328	0.07
49	13.36	33.39	30	14.69	33.40	24.83	313	0.10
74	11.46	33.42	50	13.28	33.39	25.11	286	0.16
96	10.44	33.46	75	11.40	33.42	25.49	250	0.23
120	9.98	33.89	100	10.31	33.48	25.73	227	0.29
149	9.86	33.90	150	(9.86)	(33.90)	(26.14)	(188)	(0.39)

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

S10
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5312

CREST; December 12, 1953; 0718 GCT; 30°20'N, 116°23'W; sounding, 1020 fm;
wind, 190°, force 3; weather, clear; sea, moderate; wire angle, 00°.

107.35

0	16.51	33.42	0	16.51	33.42	24.44	350	0.00
9	16.52	33.39	10	16.52	33.39	24.41	353	0.04
19	16.52	33.42	20	16.51	33.42	24.44	350	0.07
34	15.50	33.40	30	16.51	33.41	24.43	351	0.10
53	13.10	33.21	50	13.45	33.21	24.94	302	0.17
67	12.14	33.21	75	11.70	33.28	25.33	265	0.24
81	11.42	33.37	100	10.39	33.50	25.74	226	0.30
104	10.20	33.53	150	9.41	33.85	26.17	185	0.41
127	9.58	33.69	200	8.84	34.11	26.47	157	0.50
155	9.38	33.88	250	8.23	34.14	26.59	146	0.57
206	8.77	34.11	300	7.99	34.25	26.71	134	0.65
262	8.14	34.15	400	7.54	34.32	26.83	123	0.78
308	7.97	34.26	500	6.76	34.39	26.99	108	0.90
415	7.47	34.33	600	5.90	34.40	27.11	96	1.01
518	6.60	34.40						
622	5.70	34.40						

CREST; December 12, 1953; 0400 GCT; 30°10.5'N, 116°43.5'W; sounding, 1550 fm;
wind, 290°, force 3; weather, clear; sea, rough; wire angle, 23°.

107.40

0	15.82	33.48	0	15.82	33.48	24.64	331	0.00
8	15.82	33.44	10	15.82	33.44	24.61	334	0.03
18	15.78	33.48	20	15.78	33.48	24.65	330	0.07
31	15.66	33.43	30	15.68	33.44	24.64	331	0.10
44	13.35	33.26	50	12.62	33.27	25.15	282	0.16
57	12.22	33.30	75	11.43	33.37	25.45	254	0.23
70	11.63	33.33	100	9.90	33.51	25.83	218	0.29
87	10.92	33.44	150	9.84	33.94	26.17	185	0.39
108	9.85	33.55	200	8.63	34.09	26.48	156	0.48
132	10.01	33.86	250	7.90	34.09	26.60	145	0.55
172	9.06	34.02	300	7.53	34.17	26.71	134	0.63
212	8.48	34.10	400	6.78	34.32	26.93	113	0.76
254	7.86	34.09	500	6.14	34.35	27.04	103	0.87
341	7.24	34.29						
430	6.55	34.33						
528	6.00	34.36						

CREST; December 12, 1953; 1440 GCT; 29°50'N, 115°53'W; sounding, 62 fm; wind,
030°, force 1; weather, clear; sea, moderate; wire angle, 00°.

110.33

0	14.98	33.47	0	14.98	33.47	24.82	314	0.00
9	14.98	33.48	10	14.97	33.47	24.82	314	0.03
19	14.70	33.47	20	14.69	33.47	24.88	308	0.06
29	14.52	33.51	30	14.47	33.51	24.96	300	0.09
48	12.52	33.40	50	12.40	33.40	25.29	269	0.15
73	11.39	33.58	75	(11.31)	(33.59)	(25.64)	(236)	(0.21)

S10

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5312

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

11035

CREST; December 12, 1953; 1633 GCT; 29°46.5'N, 116°00'W; sounding, 650 fm;
wind, 080°, force 1; weather, clear; sea, moderate; wire angle, 02°.

0	15.21	33.47	0	15.21	33.47	24.77	319	0.00
9	15.26	33.55	10	15.24	33.55	24.82	314	0.03
20	15.12	33.49	20	15.12	33.49	24.80	316	0.06
34	14.28	33.35	30	14.66	33.38	24.82	314	0.10
48	12.54	33.28	50	12.42	33.28	25.20	278	0.15
62	11.80	33.42	75	10.85	33.53	25.68	232	0.22
76	10.85	33.53	100	10.35	33.68	25.88	213	0.27
95	10.38	33.62	150	10.20	34.09	26.23	180	0.37
118	10.38	34.00	200	9.95	34.24	26.39	164	0.46
146	10.21	34.07	250	9.58	34.36	26.54	150	0.54
192	10.00	34.22	300	9.17	34.38	26.63	142	0.62
238	9.66	34.34	400	7.80	34.35	26.81	125	0.76
286	9.33	34.38	500	6.80	34.34	26.95	111	0.88
385	7.99	34.35						
477	7.00	34.34						
577	6.12	34.36						

11040

CREST; December 12, 1953; 1920 GCT; 29°36.5'N, 116°19.5'W; sounding, 1390 fm;
wind, 260°, force 2; weather, clear; sea, moderate; wire angle, 03°.

0	16.48	33.45	0	16.48	33.45	24.47	347	0.00
10	16.26	33.45	10	16.26	33.45	24.52	342	0.04
25	16.08	33.44	20	16.11	33.45	24.55	340	0.07
54	13.72	33.40	30	16.05	33.44	24.56	339	0.10
78	12.76	33.44	50	14.00	33.40	24.97	300	0.17
105	11.30	33.57	75	12.81	33.44	25.24	274	0.24
158	10.14	34.02	100	11.49	33.54	25.57	242	0.30
208	9.54	34.25	150	10.26	33.96	26.12	190	0.41
264	9.17	34.35	200	9.61	34.22	26.43	161	0.50
310	8.76	-	250	9.25	34.33	26.57	148	0.58
396	7.98	34.38	300	8.85	34.37	26.67	138	0.66
498	6.80	34.34	400	7.89	34.37	26.82	124	0.79
601	5.90	34.40	500	6.78	34.34	26.97	110	0.92
824	4.66	34.48	600	5.91	34.40	27.11	96	1.03
1027	3.92	34.58	700	5.30	34.43	27.21	87	1.13
1223	3.41	34.40r	800	4.78	34.47	27.30	78	1.22
			1000	4.00	34.57	27.47	62	1.38

11050

CREST; December 13, 1953; 0119 GCT; 29°17.5'N, 116°56.5'W; sounding, 1600 fm;
wind, 300°, force 3; weather, partly cloudy; sea, moderate; wire angle, 23°.

0	17.09	33.54	0	17.09	33.54	24.39	355	0.00
8	17.00	33.53	10	17.00	33.54	24.42	352	0.04
18	16.97	33.55	20	16.96	33.55	24.43	351	0.07
31	16.93	33.54	30	16.92	33.55	24.44	350	0.11
48	16.44	33.48	50	16.00	33.46	24.58	337	0.17
61	13.87	33.33	75	11.75	33.39	25.41	258	0.25
74	11.99	33.37	100	10.58	33.71	25.87	214	0.31
95	10.72	33.68	150	9.24	33.90	26.24	179	0.41
116	10.25	33.78	200	8.63	34.13	26.52	152	0.49
142	9.36	33.86	250	8.37	34.21	26.62	143	0.57
188	8.77	34.11	300	8.26	34.31	26.71	134	0.64
239	8.34	34.18	400	7.19	34.31	26.87	119	0.77
282	8.42	34.31	500	6.64	34.40	27.02	105	0.89
384	7.30	34.30	600	(5.95)	(34.37)	(27.08)	(99)	(1.00)
483	6.74	34.40						
586	6.06	34.36						

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

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5312

CREST; December 13, 1953; 0642 GCT; 28°56'N, 117°38'W; sounding, 1960 fm; wind, 330°, force 3; weather, clear; sea, moderate; wire angle, 22°.

11060

0	16.69	33.48	0	16.69	33.48	24.44	350	0.00
8	16.69	33.49	10	16.69	33.49	24.45	349	0.04
23	16.64	33.48	20	16.66	33.48	24.45	349	0.07
49	16.60	33.42	30	16.63	33.47	24.45	349	0.10
70	13.30	33.23	50	16.60	33.42	24.42	352	0.18
97	11.13	33.35	75	12.55	33.24	25.14	283	0.26
145	9.49	33.77	100	10.95	33.38	25.54	245	0.32
190	9.23	34.14	150	9.44	33.83	26.15	187	0.43
241	8.87	34.22	200	9.19	34.16	26.45	159	0.52
283	8.19	34.25	250	8.72	34.23	26.58	147	0.60
383	7.43	34.27	300	8.03	34.26	26.71	134	0.67
470	6.65	34.34	400	7.28	34.28	26.83	123	0.80
565	5.95	34.29	500	6.43	34.33	26.99	108	0.93
754	5.00	34.36	600	5.74	34.30	27.05	102	1.04
947	4.24	34.52	700	5.24	34.33	27.14	93	1.14
1136	3.64	34.53	800	4.80	34.40	27.24	84	1.24
			1000	4.06	34.53	27.43	66	1.41

PAOLINA-T; December 12, 1953; 2353 GCT; 29°23'N, 115°18'W; sounding, 50 fm; wind, 350°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

11330

0	15.66	33.51	0	15.66	33.51	24.70	325	0.00
10	15.43	33.52	10	15.43	33.52	24.76	319	0.03
20	15.30	33.57	20	15.30	33.57	24.82	314	0.06
29	14.86	33.58	30	14.80	33.58	24.94	302	0.10
48	13.71	33.58						

PAOLINA-T; December 12, 1953; 1829 GCT; 29°12.5'N, 115°43.5'W; sounding, 500+ fm; wind, 350°, force 3; weather, clear; sea, slight; wire angle, 00°.

11335

0	16.97	33.54	0	16.97	33.54	24.42	352	0.00
10	16.99	33.55	10	16.99	33.55	24.43	351	0.04
19	16.96	33.54	20	16.96	33.54	24.42	352	0.07
34	16.94	33.69	30	16.94	33.69	24.54	340	0.10
48	16.90	33.51	50	16.88	33.44	24.37	357	0.18
63	14.71	33.22	75	12.80	33.26	25.11	286	0.26
77	12.70	33.26	100	11.43	33.29	25.39	260	0.32
96	11.62	33.27	150	10.17	33.89	26.08	194	0.44
117	10.64	33.51	200	10.32	34.31	26.38	166	0.53
144	10.14	33.83	250	9.53	34.37	26.56	148	0.61
188	10.38	34.25	300	8.82	34.38	26.68	137	0.69
279	9.12	34.38	400	7.66	34.38	26.86	120	0.82
376	7.87	34.38	500	6.82	34.37	26.97	110	0.94
470	7.06	34.37						
571	6.20	34.38						

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5312

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

113.40

PAOLINA-T; December 12, 1953; 1511 GCT; 29°01.5'N, 116°01.5'W; sounding, 1000 fm; wind, 340°, force 3; weather, clear; sea, rough; wire angle, 08°.

0	16.66	33.44	0	16.66	33.44	24.42	352	0.00
10	16.70	33.43	10	16.70	33.43	24.40	354	0.04
20	16.68	33.42	20	16.68	33.42	24.40	354	0.07
34	16.68	33.42	30	16.68	33.42	24.40	354	0.11
53	16.70	33.42	50	16.70	33.42	24.39	355	0.18
67	14.10	33.19	75	13.00	33.17	25.00	297	0.26
81	12.48	33.17	100	11.14	33.32	25.46	253	0.33
104	10.88	33.36	150	10.27	33.94	26.10	192	0.44
125	10.16	33.55	200	10.23	34.33	26.41	163	0.53
151	10.27	33.95	250	10.22	34.52	26.56	148	0.61
200	10.23	34.33	300	9.06	34.49	26.73	132	0.68
299	9.08	34.49	400	7.96	34.40	26.83	123	0.82
403	7.92	34.40	500	6.66	34.38	27.00	107	0.94
505	6.60	34.38	600	5.93	34.40	27.11	96	1.05
609	5.88	34.40						

117.26

PAOLINA-T; December 11, 1953; 2042 GCT; 28°56.5'N, 114°42'W; sounding, 40 fm; wind, 360°, force 8; weather, clear; sea, rough; wire angle, 10°.

0	16.13	33.58	0	16.13	33.58	24.65	330	0.00
10	16.16	33.55	10	16.16	33.55	24.62	333	0.03
15	16.12	33.53	20	16.10	33.56	24.64	331	0.07
20	16.10	33.56	30	15.47	33.50	24.73	322	0.10
29	15.61	33.51	50	12.17	33.41	25.34	264	0.16
39	13.18	33.36						
63	12.52	33.78						

117.30

PAOLINA-T; December 12, 1953; 0024 GCT; 28°48'N, 114°56.5'W; sounding, 51 fm; wind, 360°, force 8; weather, clear; sea, rough; wire angle, 12°.

0	15.70	33.52	0	15.70	33.52	24.70	325	0.00
10	15.70	33.49	10	15.70	33.49	24.67	328	0.03
14	15.70	33.50	20	15.71	33.50	24.68	327	0.06
19	15.71	33.50	30	15.70	33.47	24.66	329	0.10
29	15.70	33.47	50	14.84	33.46	24.84	312	0.16
39	15.68	33.50						
63	12.82	33.40						

118³.33

PAOLINA-T; December 12, 1953; 0436 GCT; 28°27'N, 114°57.5'W; sounding, 65 fm; wind, 360°, force 8; weather, clear; sea, very rough; wire angle, 12°.

0	17.78	33.69	0	17.78	33.69	24.34	360	0.00
10	17.77	33.63	10	17.77	33.63	24.30	363	0.04
19	17.76	33.65	20	17.76	33.65	24.32	361	0.07
28	17.78	-	30	17.78	33.67	24.33	360	0.11
48	17.79	33.68	50	17.77	33.68	24.34	360	0.18
71	15.81	33.48	75	15.38	33.46	24.72	323	0.27
95	13.24	33.44	100	(12.80)	(33.44)	(25.25)	(273)	(0.34)

120.25

PAOLINA-T; December 11, 1953; 1215 GCT; 28°23'N, 114°14.5'W; sounding, 30 fm; wind, 310°, force 7; weather, clear; sea, moderate; wire angle, 00°.

0	16.69	33.60	0	16.69	33.60	24.53	341	0.00
5	16.73	33.61	10	16.72	33.57	24.50	344	0.03
10	16.72	33.57	20	16.72	33.61	24.53	341	0.07
15	16.71	33.62	30	16.65	33.60	24.54	340	0.10
19	16.72	33.61						
24	16.72	33.61						
29	16.66	33.60						
34	16.60	33.62						
39	-	33.60						
43	-	33.72						

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

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5312

PAOLINA-T; December 10, 1953; 1434 GCT; 28°12.5'N, 114°34.5'W; sounding, 55 fm; wind, 360°, force 2; weather, clear; sea, slight; wire angle, 00°.

12030

0	17.19	33.55	0	17.19	33.55	24.38	356	0.00
10	17.24	33.62	10	17.24	33.62	24.42	352	0.04
24	17.23	33.58	20	17.23	33.59	24.40	354	0.07
39	17.22	33.58	30	17.23	33.58	24.39	355	0.11
48	17.20	33.58	50	17.20	33.58	24.40	354	0.18
73	15.50	33.66	75	(15.27)	(33.66)	(24.90)	(306)	(0.26)

PAOLINA-T; December 10, 1953; 0818 GCT; 28°03'N, 114°53.5'W; sounding, 47 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 00°.

12035

0	17.05	33.66	0	17.05	33.66	24.50	344	0.00
10	17.02	33.58	10	17.02	33.58	24.44	350	0.04
24	17.02	33.78	20	17.02	33.77	24.59	336	0.07
38	16.87	33.57	30	16.98	33.74	24.57	338	0.10
48	16.63	33.62	50	16.50	33.62	24.59	336	0.17
73	13.61	33.62	75	(13.41)	(33.62)	(25.26)	(272)	(0.25)

PAOLINA-T; December 10, 1953; 0031 GCT; 27°45'N, 115°33.5'W; sounding, 1180 fm; wind, 340°, force 3; weather, clear; sea, very rough; wire angle, 17°.

12045

0	18.95	34.33	0	18.95	34.33	24.54	340	0.00
9	19.00	34.26	10	19.00	34.26	24.48	346	0.03
23	18.96	34.32	20	18.97	34.30	24.51	343	0.07
51	14.80	33.77	30	18.94	34.30	24.52	342	0.10
74	13.17	33.77	50	15.00	33.80	25.07	290	0.17
102	12.50	34.27	75	13.13	33.81	25.47	252	0.24
151	11.34	34.24	100	12.55	34.26	25.93	208	0.29
201	10.28	34.34	150	11.50	34.25	26.12	190	0.39
300	8.90	34.42	200	10.31	34.34	26.40	164	0.48
403	7.71	34.35	250	9.56	34.42	26.59	146	0.56
502	6.80	34.32	300	8.90	34.42	26.70	135	0.64
602	5.97	34.36	400	7.74	34.35	26.82	124	0.77
796	4.84	34.43	500	6.83	34.32	26.93	113	0.90
993	4.06	34.51	600	5.99	34.36	27.07	100	1.01
1188	3.53	34.56	700	5.33	34.39	27.17	91	1.12
			800	4.82	34.43	27.27	81	1.21
			1000	4.04	34.51	27.41	68	1.38

PAOLINA-T; December 9, 1953; 2000 GCT; 27°33'N, 115°52'W; sounding, 2200 fm; wind, 340°, force 4; weather, clear; sea, very rough; wire angle, 21°.

12050

0	17.36	33.69	0	17.36	33.69	24.44	350	0.00
9	17.47	33.78	10	17.49	33.78	24.48	346	0.04
18	17.54	33.81	20	17.54	33.81	24.49	345	0.07
32	17.38	33.77	30	17.45	33.79	24.50	344	0.10
50	14.29	33.42	50	14.29	33.42	24.93	303	0.17
63	12.46	33.30	75	11.08	33.30	25.46	253	0.24
75	11.08	33.30	100	10.75	33.66	25.80	221	0.30
96	10.76	33.58	150	10.14	34.07	26.22	181	0.40
116	10.72	33.87	200	9.80	34.25	26.42	162	0.49
140	10.25	34.03	250	9.97	34.40	26.51	153	0.57
186	9.88	34.20	300	8.98	34.45	26.71	134	0.64
285	9.26	34.45	400	7.71	34.41	26.87	119	0.78
384	7.84	34.42	500	6.94	34.40	26.98	109	0.90
482	7.06	34.40	600	(6.30)	(34.43)	(27.09)	(98)	(1.01)
584	6.40	34.43						

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

120.60

PAOLINA-T; December 9, 1953; 0948 GCT; 27°12'N, 116°35'W; sounding, 2000+ fm;
wind, 360°, force 5; weather, clear; sea, very rough; wire angle, 21°.

0	19.24	34.34	0	19.24	34.34	24.48	346	0.00
8	19.24	34.27	10	19.24	34.27	24.42	352	0.04
22	19.26	34.27	20	19.26	34.27	24.42	352	0.07
51	18.68	34.13	30	19.26	34.27	24.42	352	0.11
72	13.35	33.58	50	19.00	34.19	24.43	351	0.18
98	12.71	33.98	75	13.13	33.58	25.29	269	0.25
145	10.82	34.07	100	12.74	34.01	25.70	230	0.32
191	10.26	34.20	150	10.72	34.08	26.13	189	0.42
283	9.38	34.38	200	10.16	34.23	26.34	169	0.51
378	8.42	34.40	250	10.03	34.34	26.45	159	0.60
471	7.04	34.33	300	9.19	34.39	26.63	142	0.68
566	6.38	34.38	400	8.07	34.39	26.81	125	0.82
754	5.06	34.42	500	6.81	34.34	26.95	111	0.95
948	4.33	34.42	600	6.12	34.40	27.08	99	1.06
1143	3.78	34.45	700	5.37	34.43	27.20	88	1.16
			800	4.86	34.43	27.26	82	1.25
			1000	4.19	34.42	27.33	75	1.43

120.70

PAOLINA-T; December 9, 1953; 0247 GCT; 26°53'N, 117°10'W; sounding, missing;
wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 20°.

0	17.83	33.80	0	17.83	33.80	24.42	352	0.00
9	17.86	33.80	10	17.86	33.80	24.41	353	0.04
18	17.84	33.81	20	17.84	33.81	24.42	352	0.07
32	17.84	33.83	30	17.84	33.83	24.44	350	0.11
46	17.73	33.80	50	17.72	33.75	24.40	354	0.18
59	15.46	33.68	75	14.16	33.64	25.12	285	0.26
73	14.20	33.64	100	11.55	33.78	25.75	225	0.32
90	13.24	33.78	150	11.50	34.24	26.11	191	0.43
111	11.46	33.77	200	9.96	34.23	26.38	166	0.52
134	11.89	34.23	250	9.62	34.43	26.59	146	0.60
175	10.10	34.13	300	8.94	34.41	26.69	136	0.67
257	9.47	34.43	400	7.88	34.41	26.85	121	0.81
344	8.50	34.40	500	6.94	34.40	26.98	109	0.93
433	7.52	34.42						
528	6.74	34.39						

120.80

PAOLINA-T; December 8, 1953; 1928 GCT; 26°32'N, 117°48'W; sounding, 2000+ fm;
wind, 340°, force 6; weather, partly cloudy; sea, very rough; wire angle, 19°.

0	18.44	33.61	0	18.44	33.61	24.12	380	0.00
9	18.44	33.63	10	18.44	33.63	24.14	379	0.04
23	18.43	33.61	20	18.43	33.62	24.13	380	0.08
51	18.42	33.54	30	18.43	33.59	24.11	382	0.11
74	14.47	33.33	50	18.42	33.55	24.08	384	0.19
102	12.24	33.40	75	14.40	33.33	24.83	313	0.28
150	10.16	33.86	100	12.40	33.39	25.28	270	0.35
198	9.56	34.14	150	10.16	33.86	26.06	196	0.47
291	9.48	34.51	200	9.56	34.15	26.38	166	0.56
390	7.80	34.42	250	9.95	34.44	26.54	150	0.64
485	6.74	34.44	300	9.34	34.50	26.69	136	0.72
581	6.06	34.38	400	7.67	34.42	26.89	117	0.85
773	5.01	34.49	500	6.63	34.44	27.05	102	0.97
970	4.24	34.48	600	5.96	34.38	27.09	98	1.08
1166	3.70	34.47	700	5.40	34.43	27.20	88	1.18
			800	4.89	34.49	27.31	77	1.27
			1000	4.16	34.48	27.38	71	1.43

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

S10
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5312

PAOLINA-T; December 8, 1953; 1208 GCT; 26°13'N, 118°27'W; sounding, 2000 fm;
wind, 340°, force 7; weather, clear; sea, very rough; wire angle, 23°.

120.90

0	18.42	33.67	0	18.42	33.67	24.17	376	0.00
10	18.46	33.66	10	18.46	33.66	24.15	378	0.04
19	18.46	33.61	20	18.46	33.61	24.12	380	0.08
34	18.44	33.62	30	18.44	33.61	24.12	380	0.11
53	18.44	33.65	50	18.44	33.65	24.15	378	0.19
67	14.86	33.40	75	13.05	33.33	25.11	286	0.27
82	12.20	33.30	100	11.15	33.45	25.56	243	0.34
105	11.00	33.53	150	10.50	34.01	26.11	191	0.45
129	10.62	33.81	200	10.17	34.32	26.41	163	0.54
155	10.47	34.05	250	9.09	34.28	26.56	148	0.62
204	10.03	34.32	300	8.30	34.23	26.65	140	0.70
304	8.23	34.23	400	7.35	34.34	26.87	119	0.83
408	7.29	34.35	500	6.54	34.38	27.01	106	0.95
510	6.46	34.38	600	5.83	34.42	27.14	93	1.06
616	5.72	34.43						

PAOLINA-T; December 11, 1953; 0945 GCT; 28°07.5'N, 114°14.5'W; sounding, 11
fm; wind, 310°, force 3; weather, clear; sea, moderate; wire angle, 00°.

121¹.27

0	17.11	33.80	0	17.11	33.80	24.59	336	0.00
3	17.14	33.78	10	17.14	33.78	24.57	338	0.03
6	17.15	33.97	20	17.01	33.76	24.58	337	0.07
9	17.14	33.78						
12	17.14	33.78						
15	17.10	33.79						
18	17.13	33.75						
21	16.93	33.77						

PAOLINA-T; December 10, 1953; 1734 GCT; 27°57'N, 114°29'W; sounding, 20 fm;
wind, 360°, force 1; weather, clear; sea, slight; wire angle, 00°.

121³.31

0	16.56	33.62	0	16.56	33.62	24.58	337	0.00
5	16.62	33.67	10	16.58	33.64	24.59	336	0.03
10	16.58	33.64	20	16.55	33.65	24.60	335	0.07
15	16.58	33.69	30	16.46	33.63	24.61	334	0.10
19	16.56	33.65						
22	16.53	33.66						
25	16.50	33.66						
28	16.47	33.57						
31	16.45	33.64						
33	-	33.64						

PAOLINA-T; December 7, 1953; 0303 GCT; 27°24'N, 114°40'W; sounding, 40 fm;
wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 00°.

12337

0	20.12	34.45	0	20.12	34.45	24.33	360	0.00
10	20.14	34.42	10	20.14	34.42	24.30	363	0.04
20	20.14	34.99	20	20.14	34.49	24.36	358	0.07
29	20.14	34.48	30	20.14	34.47	24.34	360	0.11
49	17.65	34.10						

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

123.40

PAOLINA-T; December 7, 1953; 0527 GCT; 27°18'N, 114°52'W; sounding, 380 fm;
wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 15°.

0	20.40	34.41	0	20.40	34.41	24.23	370	0.00
10	20.40	34.41	10	20.40	34.41	24.23	370	0.04
19	20.41	34.41	20	20.41	34.41	24.22	371	0.07
33	18.61	34.23	30	19.40	34.24	24.36	358	0.11
46	18.36	34.22	50	17.75	34.17	24.72	323	0.18
60	15.48	34.04	75	15.30	34.12	25.25	273	0.25
73	15.32	34.12	100	13.65	34.23	25.68	232	0.32
86	13.84	34.02	150	12.23	34.50	26.18	185	0.42
111	14.05	34.42	200	10.87	34.56	26.48	156	0.51
137	12.65	34.46	250	9.82	34.53	26.64	141	0.59
181	11.36	34.56	300	9.31	34.50	26.70	135	0.66
270	9.56	34.51	400	8.17	34.45	26.84	122	0.80
364	8.65	34.47	500	6.90	34.41	26.99	108	0.92
454	7.42	34.42						
547	6.40	34.41						

123.50

PAOLINA-T; December 7, 1953; 1148 GCT; 26°58.5'N, 115°31'W; sounding, 1990 fm;
wind, 340, force 6; weather, clear; sea, very rough; wire angle, 26°.

0	19.83	34.13	0	19.83	34.13	24.16	377	0.00
9	19.84	34.34	10	19.84	34.34	24.32	361	0.04
18	19.84	34.17	20	19.84	34.17	24.19	374	0.07
32	19.80	34.18	30	19.81	34.18	24.21	372	0.11
51	14.91	33.49	50	16.25	33.49	24.55	340	0.18
65	13.62	33.69	75	13.30	33.87	25.48	251	0.26
78	13.23	33.89	100	12.18	34.05	25.84	217	0.32
101	12.12	34.05	150	10.65	34.21	26.24	179	0.42
124	11.37	34.11	200	10.35	34.39	26.44	160	0.50
150	10.65	34.21	250	9.80	34.42	26.55	149	0.58
198	10.37	34.38	300	9.23	34.42	26.65	140	0.66
296	9.27	34.42	400	8.06	34.41	26.82	124	0.80
399	8.06	34.63r	500	7.01	34.38	26.95	111	0.92
499	7.02	34.38	600	6.13	34.41	27.09	98	1.03
601	6.12	34.41						

127.34

PAOLINA-T; December 6, 1953; 2103 GCT; 26°56'N, 114°07'W; sounding, 44 fm;
wind, 060°, force 4; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	20.18	34.47	0	20.18	34.47	24.33	360	0.00
10	20.17	34.40	10	20.17	34.40	24.28	365	0.04
20	20.18	34.45	20	20.18	34.45	24.32	361	0.07
30	20.18	34.48	30	20.18	34.48	24.34	360	0.11
49	19.26	34.42						

127.40

PAOLINA-T; December 6, 1953; 1402 GCT; 26°44.5'N, 114°33.5'W; sounding, 2300 fm; wind, 330°, force 3; weather, partly cloudy; sea, moderate; wire angle, 10°.

0	19.93	34.33	0	19.93	34.33	24.29	364	0.00
9	19.95	34.29	10	19.94	34.29	24.26	367	0.04
19	19.94	34.29	20	19.93	34.29	24.26	367	0.07
33	19.94	34.29	30	19.93	34.29	24.26	367	0.11
52	16.18	33.88	50	17.00	33.88	24.68	327	0.18
67	13.96	33.87	75	12.90	33.81	25.51	248	0.25
81	12.57	33.80	100	12.29	34.02	25.79	222	0.31
104	12.22	34.05	150	10.14	34.13	26.27	176	0.41
128	10.80	34.00	200	10.06	34.44	26.52	152	0.50
155	10.10	34.18	250	10.30	34.52	26.55	149	0.57
204	10.06	34.45	300	9.10	34.49	26.72	133	0.65
301	9.08	34.49	400	7.73	34.40	26.86	120	0.78
404	7.68	34.40	500	6.73	34.43	27.03	104	0.90
507	6.66	34.43	600	5.82	34.45	27.16	92	1.00
615	5.69	34.45						

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

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PAOLINA-T; December 6, 1953; 0709 GCT; 26°25'N, 115°09'W; sounding, 1200 fm;
wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 14°.

12750

0	19.14	34.24	0	19.14	34.24	24.42	352	0.00
9	19.14	34.22	10	19.14	34.22	24.41	353	0.04
19	19.15	34.36	20	19.15	34.36	24.51	343	0.07
33	19.14	34.22	30	19.14	34.30	24.47	347	0.10
52	12.60	33.31	50	12.61	33.31	25.18	280	0.17
66	12.76	33.64	75	12.63	33.80	25.56	243	0.23
80	12.40	33.83	100	11.82	33.88	25.77	223	0.29
104	11.68	33.89	150	10.19	34.19	26.31	172	0.39
125	10.40	33.96	200	9.72	34.41	26.56	148	0.47
152	10.16	34.20	250	9.23	34.44	26.66	139	0.55
199	9.72	34.40	300	8.73	34.45	26.75	130	0.62
297	8.76	34.45	400	7.68	34.48	26.93	113	0.75
400	7.68	34.48	500	6.63	34.49	27.09	98	0.86
503	6.60	34.49	600	5.86	34.47	27.17	91	0.96
606	5.81	34.47						

PAOLINA-T; December 4, 1953; 2355 GCT; 26°29'N, 113°29'W; sounding, 45 fm;
wind, 310°, force 4; weather, clear; sea, rough; wire angle, 00°.

13030

0	21.66	34.40	0	21.66	34.40	23.88	403	0.00
10	21.67	34.46	10	21.67	34.46	23.92	400	0.04
20	21.67	34.47	20	21.67	34.47	23.93	399	0.08
29	21.49	34.42	30	21.41	34.41	23.95	397	0.12
48	18.62	34.14						

PAOLINA-T; December 5, 1953; 0340, 0409 GCT; 26°19.5'N, 113°48.5'W; sounding,
350 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 14°, missing.

13035

0	20.95	34.36	0	20.95	34.36	24.04	388	0.00
10	20.93	34.36	10	20.93	34.36	24.05	387	0.04
24	20.92	34.31	20	20.92	34.33	24.03	389	0.08
47	16.06	33.48	30	20.91	34.30	24.03	389	0.12
71	13.72	33.48	50	15.50	33.47	24.70	325	0.19
94	13.02	33.87	75	13.57	33.54	25.17	280	0.27
144	12.40	34.61 [?]	100	12.83	34.01	25.68	232	0.33
188	11.64	34.57	150	11.53	34.61 ⁴⁵	26.39	164	0.43
233	10.98	34.60	200	11.47	34.57	26.37	166	0.52
			250	10.75	34.60	26.53	151	0.60
271	10.47	34.52	300	10.03	34.52	26.59	146	0.68
322	9.65	34.56						
368	8.77	34.50						

S10

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

13040

PAOLINA-T; December 5, 1953; 0805, 0837 GCT; 26°08'N, 114°07'W; sounding, 1200 fm; wind, 290°, force 5; weather, clear; sea, rough; wire angle, 15°, 15°.

0	21.22	34.52	0	21.22	34.52	24.09	383	0.00
10	21.22	34.52	10	21.22	34.52	24.09	383	0.04
23	21.22	34.49	20	21.22	34.51	24.08	384	0.08
52	15.46	33.62	30	21.22	34.50	24.08	384	0.12
75	13.84	33.89	50	16.00	33.62	24.71	324	0.19
103	12.79	34.16	75	13.84	33.89	25.38	260	0.26
154	11.47	34.60	100	12.90	34.14	25.77	223	0.32
205	10.89	34.87	150	11.57	34.57	26.36	167	0.42
			200	11.64	34.86	26.57	148	0.50
262	10.03	34.58	250	10.84	34.6373	26.54	150	0.58
306	8.88	34.49	300	8.97	34.49	26.74	131	0.66
413	8.13	34.54	400	8.27	34.54	26.89	117	0.79
515	6.85	34.44	500	7.03	34.44	26.99	108	0.91
614	5.91	34.46	600	6.03	34.46	27.14	93	1.01
813	4.92	34.50	700	5.46	34.48	27.23	85	1.11
1015	4.17	34.58	800	4.99	34.50	27.30	78	1.20
1210	3.69	34.58	1000	4.20	34.58	27.45	64	1.36

13050

PAOLINA-T; December 5, 1953; 1529 GCT; 25°45.5'N, 114°43'W; sounding, 2200 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 28°.

0	18.98	33.71	0	18.98	33.71	24.06	386	0.00
9	19.02	33.93	10	19.02	33.93	24.22	371	0.04
18	19.00	33.69	20	19.00	33.69	24.04	388	0.08
30	19.00	33.71	30	19.00	33.71	24.06	386	0.12
61	15.34	33.32	50	16.60	33.44	24.43	351	0.19
72	14.76	33.42	75	14.57	33.49	24.92	304	0.27
92	13.21	33.57	100	12.79	33.56	25.34	264	0.34
111	11.28	33.51	150	10.05	33.88	26.09	193	0.46
132	10.48	33.73	200	9.09	34.17	26.47	157	0.55
171	9.64	34.02	250	8.90	34.34	26.64	141	0.62
212	8.98	34.22	300	8.78	34.45	26.74	131	0.70
249	8.90	34.34	400	7.88	34.49	26.91	115	0.82
337	8.58	34.49	500	7.01	34.49	27.04	103	0.94
428	7.56	34.49						
527	6.84	34.49						

13060

PAOLINA-T; December 5, 1953; 2315, 2332 GCT; 25°29'N, 115°24'W; sounding, 2000+ fm; wind, 310°, force 5; weather, clear; sea, very rough; wire angle, 20°, 20°.

0	18.80	33.54	0	18.80	33.54	23.98	394	0.00
9	18.82	33.55	10	18.82	33.55	23.98	394	0.04
18	18.81	33.55	20	18.81	33.55	23.98	394	0.08
32	18.76	33.52	30	18.77	33.54	23.99	393	0.12
			50	16.86	33.38	24.33	360	0.19
50	16.86	33.38	75	14.23	33.31	24.85	311	0.28
65	15.12	33.38	100	12.45	33.39	25.27	271	0.35
77	14.16	33.31	150	10.66	34.18	26.22	181	0.47
100	12.45	33.39	200	10.30	34.1920	26.29	174	0.56
123	11.45	33.61	250	11.37	34.4562	26.30	173	0.65
150	10.66	34.18	300	10.00	34.49	26.57	148	0.73
197	10.16	34.18	400	8.83	34.43	26.72	133	0.88
294	10.13	34.49	500	8.06	34.50	26.89	117	1.01
393	8.87	34.43	600	(5.63)	(34.49)	(27.22)	(86)	(1.12)
491	8.18	34.50						
589	5.92	34.49						

402

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

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PAOLINA-T; December 4, 1953; 1806 GCT; 26°06'N, 112°50.5'W; sounding, 46 fm;
wind, 310°, force 3; weather, cloudy; sea, moderate; wire angle, 00°.

13325

0	22.22	34.52	0	22.22	34.52	23.81	410	0.00
10	22.22	34.54	10	22.22	34.54	23.83	408	0.04
20	22.22	34.58	20	22.22	34.58	23.86	405	0.08
29	22.22	34.56	30	22.22	34.55	23.84	407	0.12
48	21.14	34.40						

PAOLINA-T; December 4, 1953; 1520 GCT; 25°57.5'N, 113°05.5'W; sounding, 74 fm;
wind, 310°, force 1; weather, cloudy; sea, moderate; wire angle, 00°.

13330

0	22.30	34.57	0	22.30	34.57	23.83	408	0.00
10	22.31	34.52	10	22.31	34.52	23.79	412	0.04
19	22.28	34.52	20	22.28	34.52	23.80	411	0.08
29	22.28	34.54	30	22.28	34.54	23.81	410	0.12
48	19.06	34.07	50	18.67	34.07	24.41	353	0.20
73	15.75	34.11	75	15.62	34.13	25.18	280	0.28
97	14.68	34.42	100	(14.60)	(34.44)	(25.65)	(235)	(0.34)

PAOLINA-T; December 4, 1953; 0847 GCT; 25°34.5'N, 113°45.5'W; sounding, 1600
fm; wind, calm; weather, clear; sea, slight; wire angle, 00°.

13340

0	21.26	34.44	0	21.26	34.44	24.02	390	0.00
9	21.26	34.47	10	21.26	34.47	24.04	388	0.04
19	21.26	34.44	20	21.26	34.44	24.02	390	0.08
34	21.19	34.56	30	21.22	34.56	24.12	381	0.12
48	15.11	33.49	50	14.60	33.49	24.92	304	0.18
62	13.41	33.49	75	12.50	33.57	25.40	259	0.25
76	12.46	33.57	100	11.62	33.81	25.76	224	0.32
95	11.70	33.68	150	10.83	34.25	26.24	179	0.42
118	11.41	34.05	200	10.58	34.51	26.49	155	0.50
145	10.85	34.22	250	10.14	34.55	26.60	145	0.58
191	10.67	34.47	300	9.16	34.48	26.71	134	0.66
238	10.37	34.56	400	8.14	34.45	26.84	122	0.79
282	9.40	34.49	500	7.08	34.45	27.00	107	0.91
379	8.36	34.45						
472	7.36	34.44						
572	6.32	34.48						

PAOLINA-T; December 3, 1953; 1945 GCT; 25°34.5'N, 112°19'W; sounding, 42 fm;
wind, calm; weather, partly cloudy; sea, calm; wire angle, 00°.

13723

0	23.15	34.55	0	23.15	34.55	23.57	433	0.00
10	22.98	34.52	10	22.98	34.52	23.60	430	0.04
19	22.93	34.52	20	22.91	34.52	23.62	428	0.09
29	22.14	34.43	30	22.09	34.42	23.77	414	0.13
49	21.46	34.33						

PAOLINA-T; December 4, 1953; 0035 GCT; 25°20'N, 112°45.5'W; sounding, 175 fm;
wind, 310°, force 1; weather, clear; sea, moderate; wire angle, 03°.

13730

0	22.84	34.59	0	22.84	34.59	23.69	422	0.00
10	22.66	34.56	10	22.66	34.56	23.72	419	0.04
24	22.59	34.61	20	22.60	34.60	23.77	414	0.08
47	22.22	34.49	30	22.51	34.60	23.79	412	0.12
71	16.58	33.95	50	22.17	34.43	23.76	415	0.21
94	14.75	34.14	75	16.04	33.95	24.95	301	0.30
144	13.50	34.54	100	14.56	34.23	25.49	250	0.37
189	12.19	34.63	150	13.30	39.56	26.01	201	0.48
236	11.31	34.66	200	11.97	34.64	26.33	170	0.58

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Dr. E. H. Ahlstrom
U. S. Fish and Wildlife Service
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La Jolla, California

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Innsbruck
AUSTRIA

Mr. Seth Gordon, Director
California Department of Fish and Game
926 J Street
Sacramento 14, California

Mr. John Hawk
c/o Seafarers' International Union
of North America
450 Harrison Street
San Francisco 5, California

Director
Hopkins Marine Station
Pacific Grove, California

Mr. John D. Isaacs
Program Director, Marine Life Research
University of California
Scripps Institution of Oceanography
La Jolla, California

Dr. H. Kitamura
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Director
Norwegian Polar Institute
Observatorieg 1
Oslo, NORWAY

Office of Naval Research
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Dr. E. L. Pickard
Institute of Oceanography
University of British Columbia
Vancouver, B. C.
CANADA

Mr. Milton C. James
Pacific Marine Fishery Commission
340 State Office Building
1400 S. W. Fifth Avenue
Portland 1, Oregon

Dr. E. C. La Fond
Code 2235
U. S. Navy Electronics Laboratory
San Diego 52, California

Mr. J. C. Marr
U. S. Fish and Wildlife Service
c/o Scripps Institution of Oceanography
La Jolla, California

Dr. H. J. McLellan
Atlantic Oceanographic Group
St. Andrews, New Brunswick
CANADA

Dr. R. C. Miller, Director
California Academy of Science
Golden Gate Park
San Francisco 18, California

Dr. A. W. H. Needler, Director
Pacific Biological Station
Nanaimo, B. C.
CANADA

Dr. Yngve H. Olsen
Journal of Marine Research
Yale University
New Haven, Connecticut

Librarian
Pacific Oceanic Fishery Investigations
P. O. Box 3830
Honolulu, T. H.

Mr. Don Powell
U. S. Fish and Wildlife Service
2725 Montlake Boulevard
Seattle 2, Washington

Dr. D. W. Pritchard, Director
Chesapeake Bay Institute
The Johns Hopkins University
121 Maryland Hall
Baltimore 18, Maryland

Mr. Joseph L. Reid, Jr.
University of California
Scripps Institution of Oceanography
La Jolla, California

Dr. Gordon A. Riley
Bingham Oceanographic Foundation
Yale University
New Haven, Connecticut

Mr. Gunnar I. Roden
University of California
Scripps Institution of Oceanography
La Jolla, California

Dr. M. B. Schaefer
Inter-American Tropical Tuna Commission
c/o Scripps Institution of Oceanography
La Jolla, California

Mr. O. E. Sette, Chief
Ocean Research
U. S. Fish and Wildlife Service
450-B Jordan Hall
Stanford, California

Mr. W. E. Stewart
c/o California State Chamber of
Commerce
350 Bush Street
San Francisco 4, California

Dr. Albert L. Tester, Chief
Division of Biological Research
Bureau of Commercial Fisheries
U. S. Fish and Wildlife Service
Washington 25, D. C.

Mr. John Radovich
California Department of Fish and Game
California State Fisheries Laboratory
Terminal Island, California

Dr. Roger Revelle
University of California
Scripps Institution of Oceanography
La Jolla, California

Mrs. Margaret K. Robinson
University of California
Scripps Institution of Oceanography
La Jolla, California

Mr. Don T. Saxby
California Division
California Packing Corporation
2600 Seventh Street
Berkeley 10, California

Library (4)
University of California
Scripps Institution of Oceanography
La Jolla, California

President Clark Kerr
University of California
Berkeley 4, California

Miss Margaret Storey, Librarian
Natural History Museum
Stanford, California

Department of Oceanography
Texas A. and M. College
College Station, Texas

Dr. John P. Tully
Pacific Oceanographic Group
P. O. Drawer 6
Nanaimo, B. C.
CANADA

Library (2)
U. S. Navy Electronics Laboratory
San Diego 52, California

University of California (2)
General Library
Berkeley 4, California
Attn: Gifts and Exchange Department

Librarian
University of Washington
Oceanographic Laboratories
Friday Harbor, Washington

Director
University of Washington
School of Fisheries
Seattle 4, Washington

Dr. Lionel A. Walford, Chief
Atlantic Fishery Oceanographic
Research Center
U. S. Fish and Wildlife Service
734 Jackson Place, N. W.
Washington 25, D. C.

Director
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts

U. S. Hydrographic Office
Navy Department
Washington 25, D. C.
Attn: Mr. John Lyman

University of California
Department of Zoology
Berkeley 4, California

Director
University of Miami
Marine Laboratory
Coral Gables, Florida

Librarian (2)
University of Washington
Oceanographic Laboratories
Seattle 5, Washington

Mr. Gilbert C. Van Camp, Sr.
772 Tuna Street
Terminal Island, California

Dr. Boyd W. Walker
University of California
Department of Zoology
Los Angeles 24, California