

CORRECTIONS MADE:
STATION POSITIONS #8

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5709 (MLR 100)
4-21 September 1957

CCOFI CRUISE 5710 (MLR 101)
4 October - 8 November 1957

CCOFI CRUISE 5711 (MLR 102)
16-25 November 1957

CCOFI CRUISE 5712 (MLR 103)
12-20 December 1957

SIO Reference 58-64
15 September 1958

ERRATA

PHYSICAL AND CHEMICAL DATA

CCOFI Cruises 5701 and 5702
SIO Reference 58-22

CCOFI Cruises 5703 and 5704
SIO Reference 58-24

CCOFI Cruises 5705 and 5706
SIO Reference 58-33

CCOFI Cruises 5707 and 5708
SIO Reference 58-63

Please replace the last sentence of the second paragraph
of the INTRODUCTION with the following:

"The presentation of data in this report does not constitute
publication; however, the data contained in this report
have been carefully edited and no modification should be
necessary before final publication."

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5709
(MLR 100)

4-21 September 1957

CCOFI CRUISE 5710
(MLR 101)

4 October - 8 November 1957

CCOFI CRUISE 5711
(MLR 102)

16-25 November 1957

CCOFI CRUISE 5712
(MLR 103)

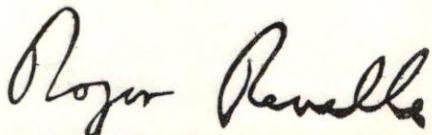
12-20 December 1957

Sponsored by

Marine Research Committee

SIO Reference 58-64
15 September 1958

Approved for distribution:



Roger Revelle, Director

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CRUISE 5712

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INTRODUCTION

The data presented in this report were collected on Cruises 100, 101, 102 and 103 of the California Cooperative Oceanic Fisheries Investigations. The R/V Black Douglas of the U. S. Fish and Wildlife Service and the R/V Stranger of the Scripps Institution of Oceanography participated in Cruise 100; the R/V Stranger and R/V Paolina-T of the Scripps Institution, in Cruise 101; the R/V Orca of the Scripps Institution, in Cruise 102; the R/V Paolina-T and R/V Stranger, in Cruise 103.

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; however, the data contained in this report have been carefully edited and no modification should be necessary before final publication.

The stations occupied in the Gulf of California are based on a special grid; therefore, they will appear in each report following the data obtained in the normal station pattern. In each group stations are listed in numerical order. The designation "G" in the station number is used to denote Gulf of California stations.

STANDARD PROCEDURES

Processing of the data was carried out using the method described by Klein.^{1/} Certain approximations have been introduced for the determination of the integrated pressure terms which may result in errors whose maximum values are less than 0.5 dynamic centimeter at 0 over 200 decibars, 1.0 dynamic centimeter at 0 over 500 decibars, and 2.0 dynamic centimeters at 0 over 1000 decibars. The 125-meter level was introduced into the integration to obtain greater accuracy in the determination of ΔD . The interpolated values at 125 meters are not tabulated.

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

1/

Klein, Hans T. A new technique for processing physical oceanographic data. (MS). Contribution from the Scripps Institution of Oceanography, New Series, No. 000.

value. The time is the time of messenger release. When more than one cast was made on a station, each messenger time and wire angle is given in the order of increasing depth of casts. A line is left blank between the observed data of each cast.

FOOTNOTES

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

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

p: pretrip or posttrip.

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

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

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

FORMAT

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 1957 volume, the first page of Cruise 5709 is numbered 251; Cruise 5710, 260; Cruise 5711, 301; Cruise 5712, 307.

FIGURES

1. CCOFI Cruise 5710 (MLR 101), 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

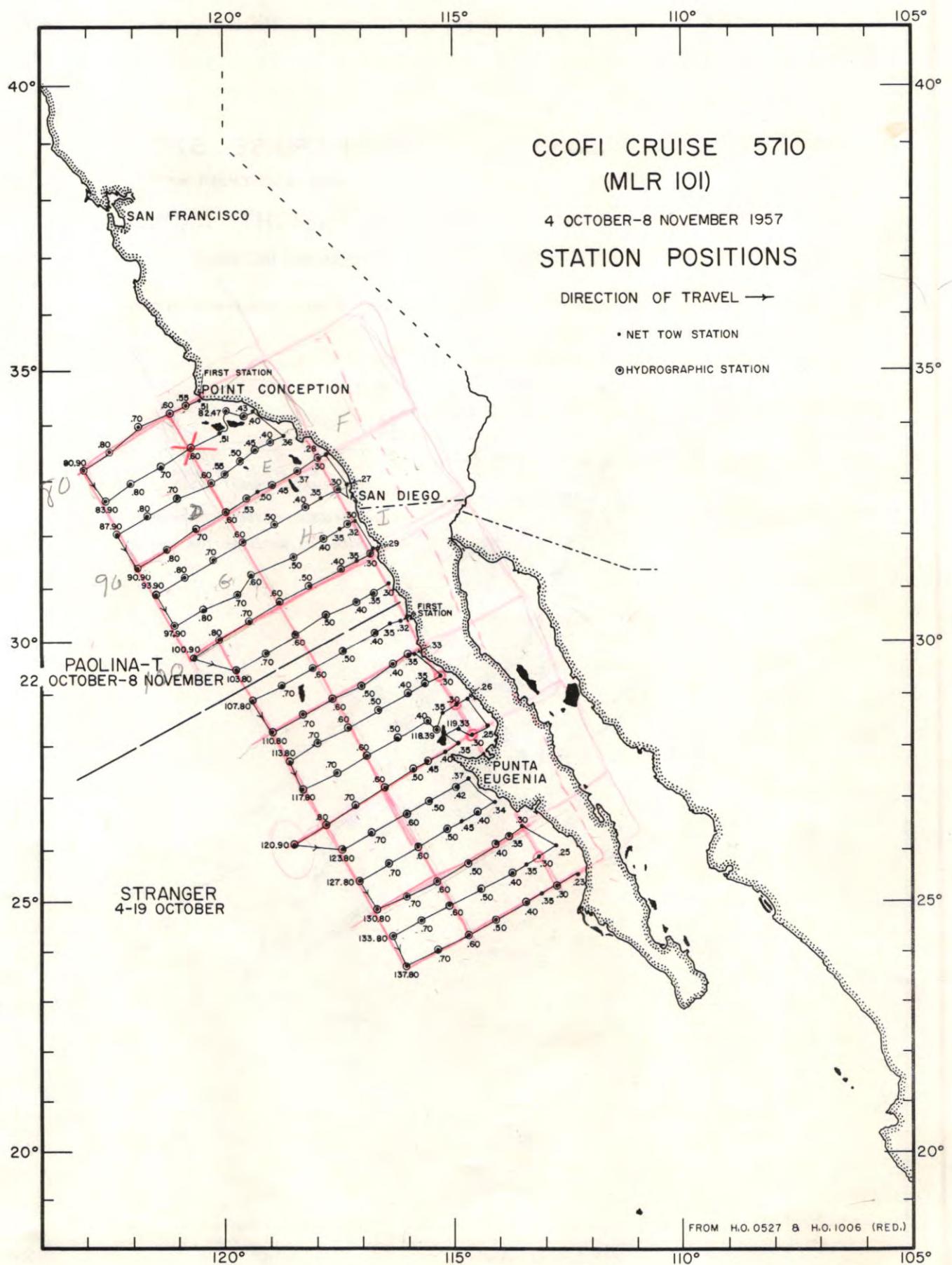


FIGURE I

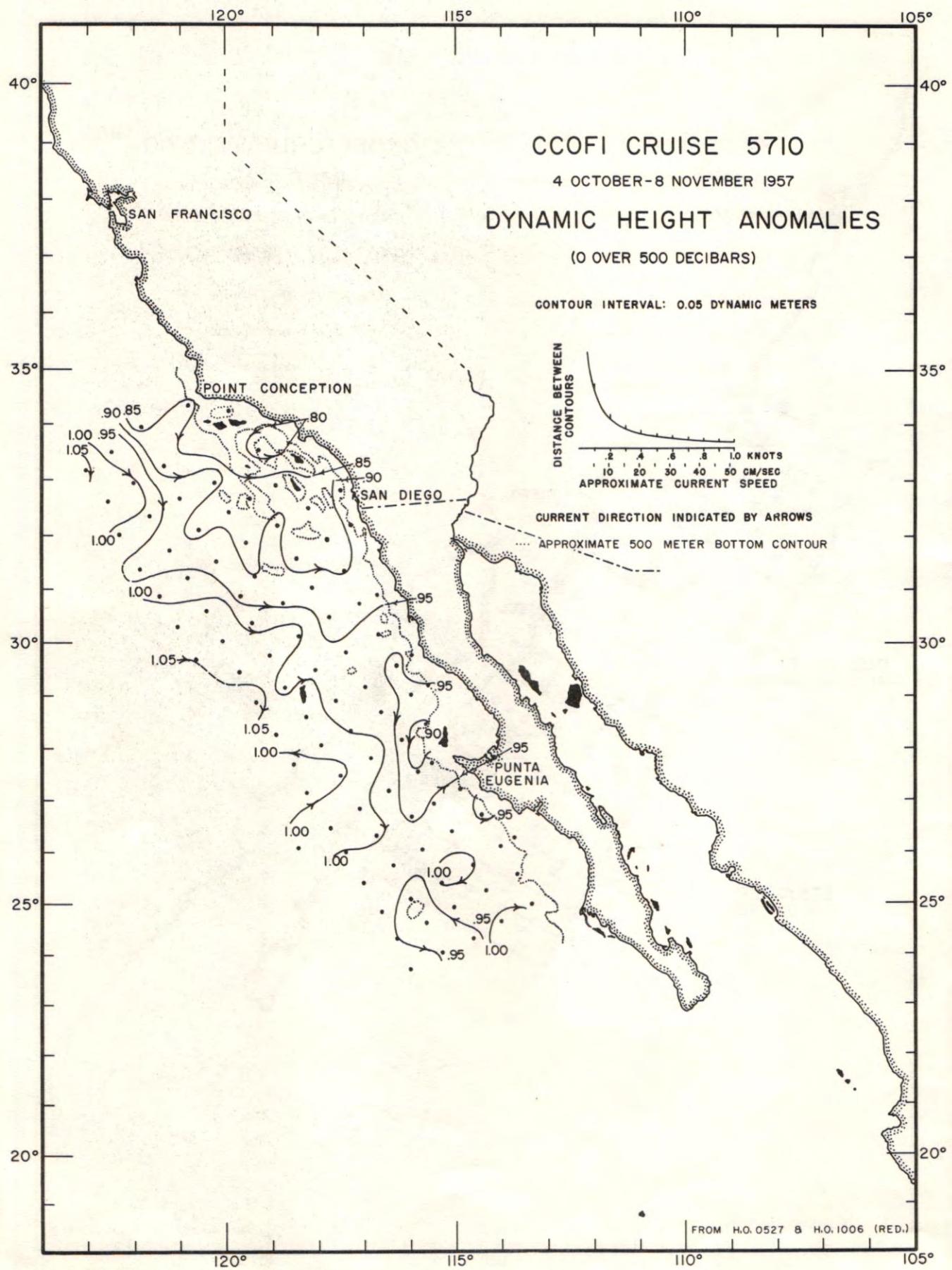


FIGURE 2

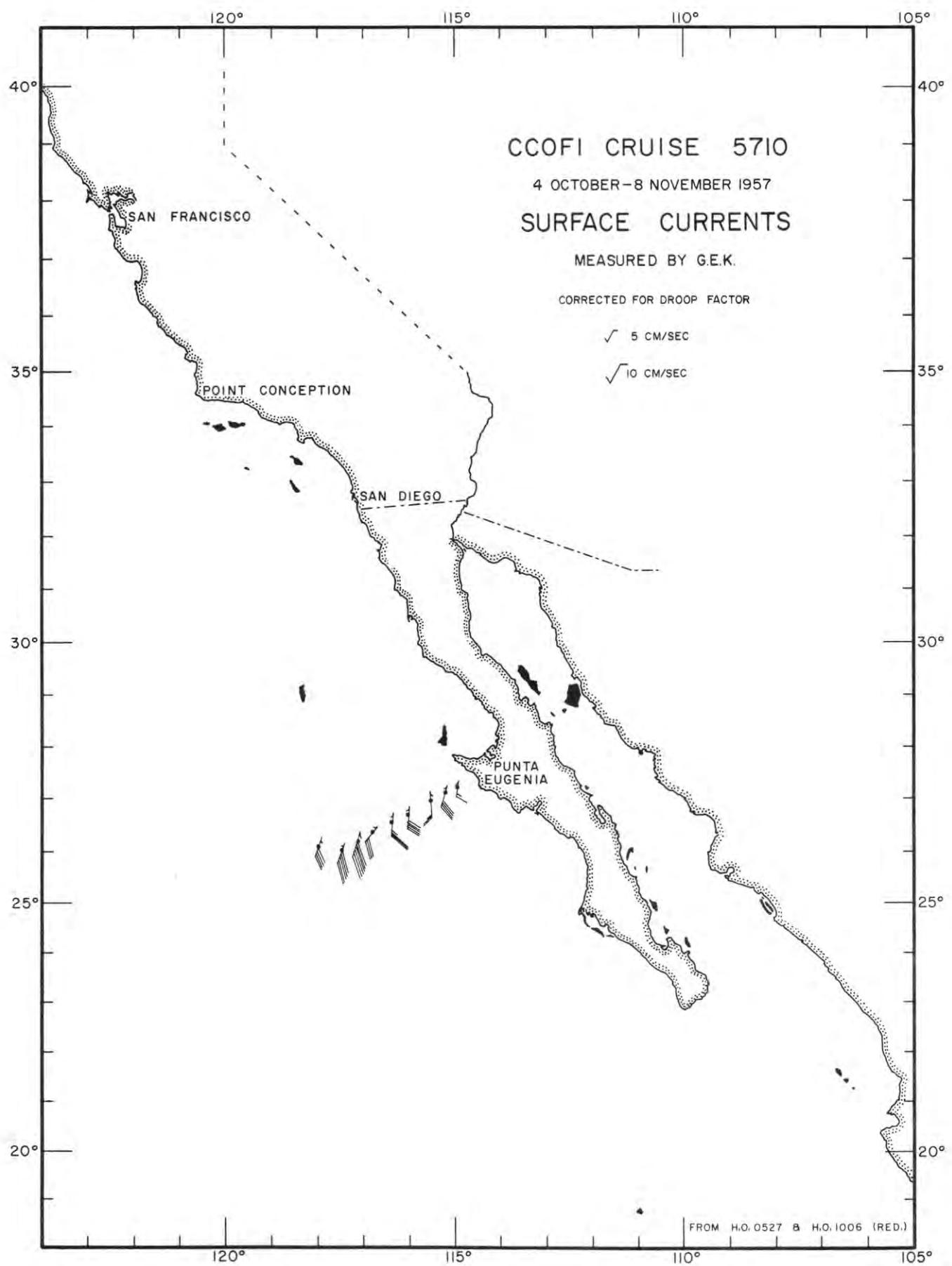


FIGURE 3

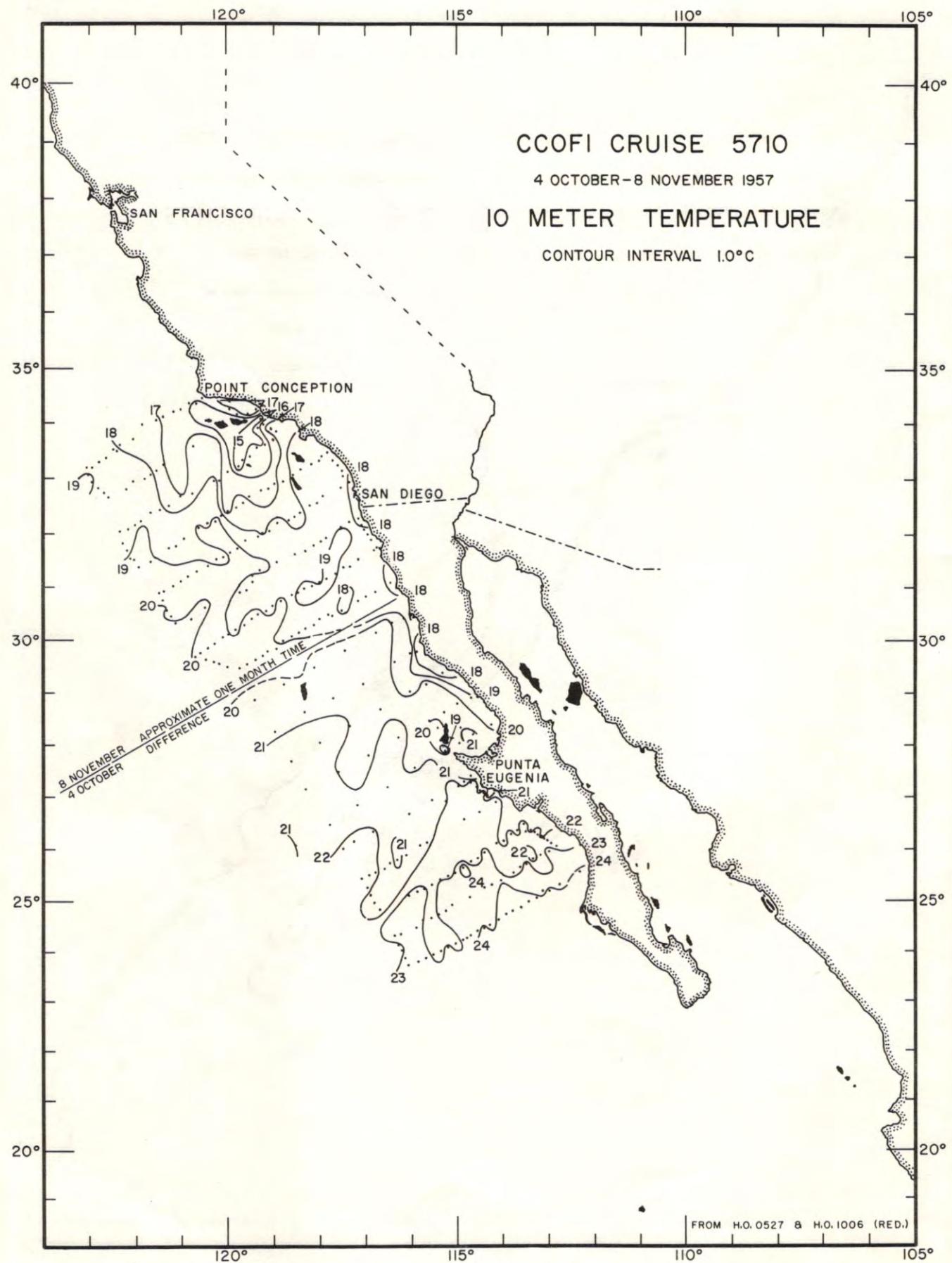


FIGURE 4

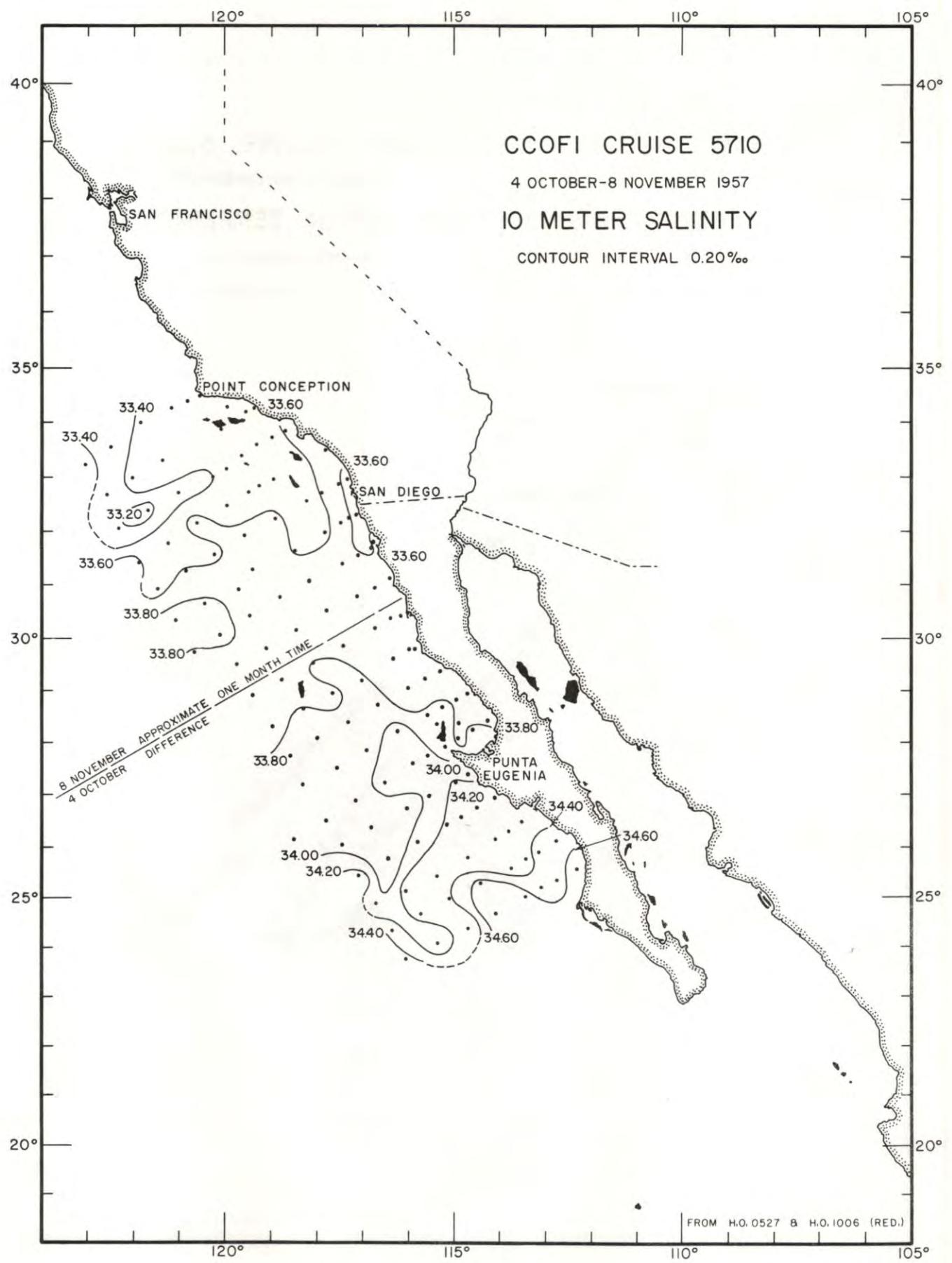


FIGURE 5

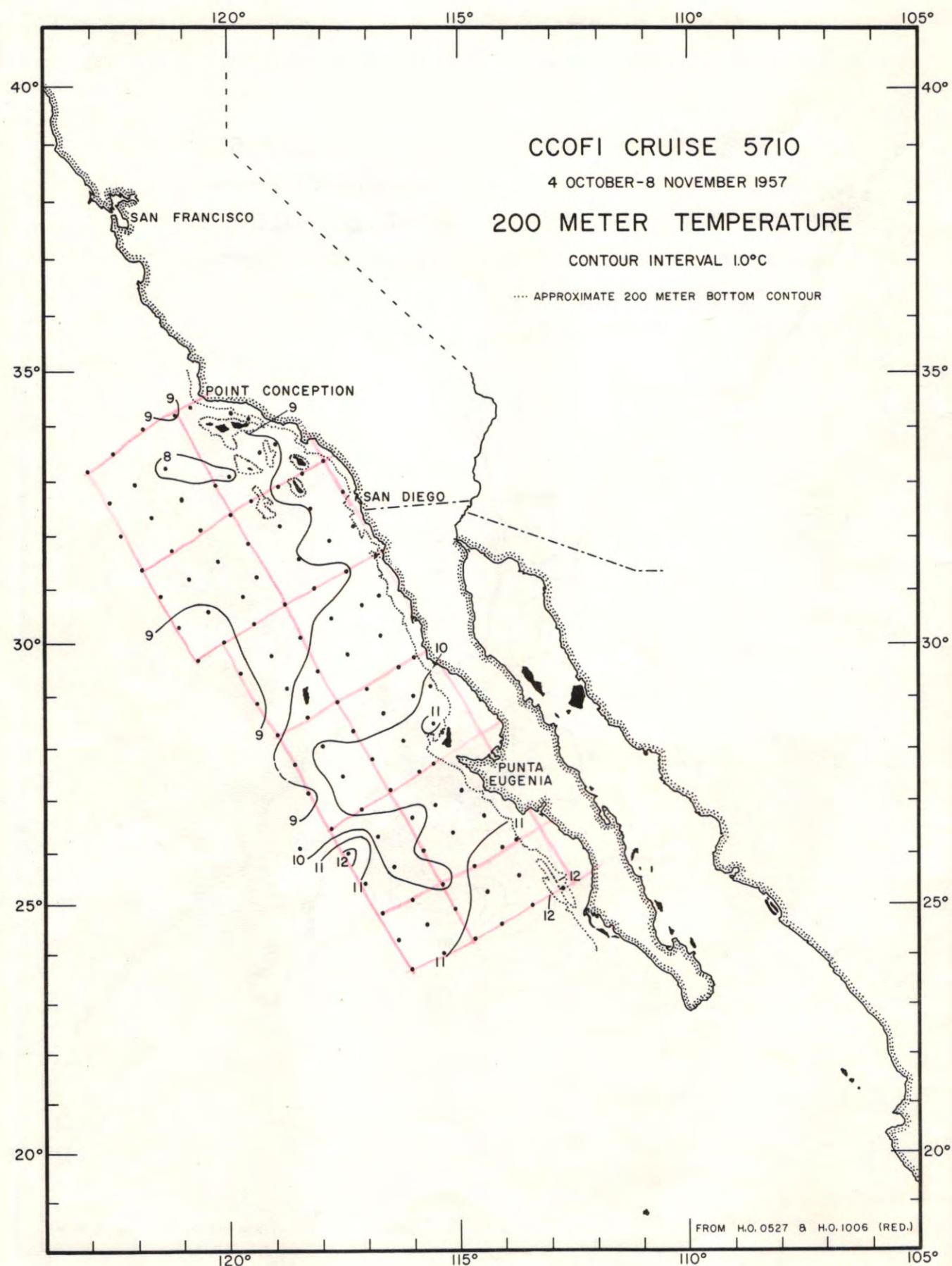


FIGURE 6

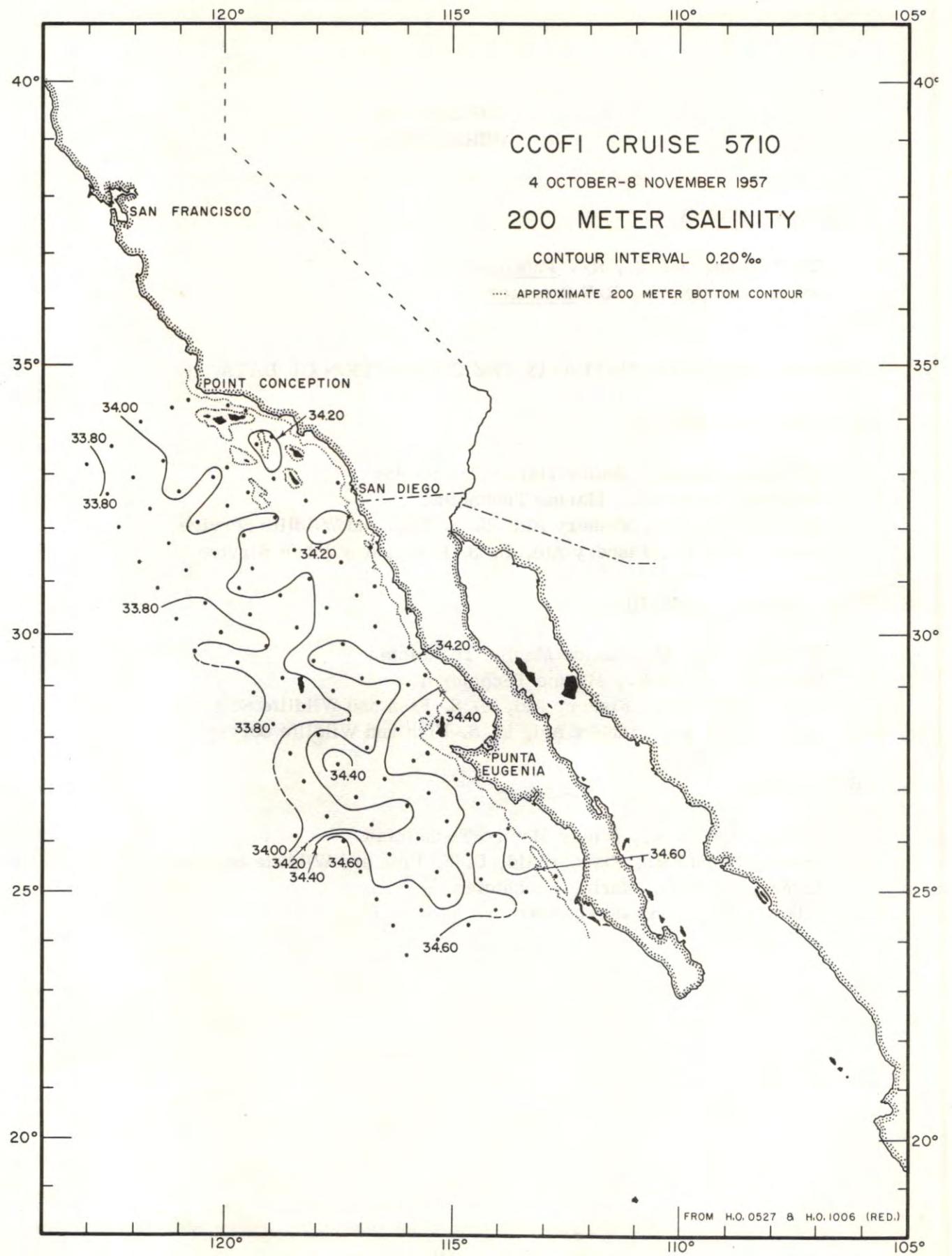


FIGURE 7

CRUISE 5710
PERSONNEL

SHIPS' CAPTAINS

Davis, Laurence E., R/V Paolina-T
Smith, Charles H., R/V Stranger

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V Paolina-T (Part I)

Reith, A. Dougall, Senior Marine Technician
Brennan, Robert E., Marine Technician
Reid, Charles F., Fishery Aid, U. S. Fish and Wildlife Service
Tubbs, Paul E., Fishery Aid, U. S. Fish and Wildlife Service

R/V Paolina-T (Part II)

Brown, Daniel M., Senior Marine Technician
Brennan, Robert E., Marine Technician
Reid, Charles F., Fishery Aid, U. S. Fish and Wildlife Service
Tubbs, Paul E., Fishery Aid, U. S. Fish and Wildlife Service

R/V Stranger

Gilkey, Robert W., Senior Marine Technician
Bower, Donald R., Fishery Aid, U. S. Fish and Wildlife Service
Jaynes, John M., Marine Technician
Gilkey, H. R., guest observer

Cruise 5710

Tabulated Data

SIO

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5710

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

80.55

PAOLINA-T; October 23, 1957; 0919 GCT; 34°20.5'N, 120°49'W; sounding, 415 fm; wind, 140°, force 4; weather, cloudy; sea, slight; wire angle, 04°.

0	16.49	33.49	5.96	0	16.49	33.49	5.96	24.49	345	0.00
10	16.50	33.48	5.91	10	16.50	33.48	5.91	24.48	346	0.03
35	13.79	33.41	5.74	20	16.00	33.47	5.90	24.59	336	0.07
45	12.52	33.41	5.10	30	14.48	33.42	5.81	24.89	307	0.10
59	11.59	33.42	4.71	50	12.22	33.41	4.96	25.33	265	0.16
69	10.80	33.41	4.96	75	10.58	33.43	4.78	25.65	235	0.22
79	10.45	33.47	4.40	100	10.08	33.74	3.16	25.97	204	0.28
98	10.12	33.73	3.23	150	9.43	33.94	2.47	26.24	179	0.37
117	9.86	33.86	2.75	200	8.96	34.07	2.06	26.42	162	0.46
130	9.62	33.89	2.63	250	8.29	34.15	1.68	26.59	146	0.54
155	9.38	33.96	2.40	300	7.53	34.17	1.49	26.70	135	0.61
193	9.02	34.05	2.12	400	6.79	34.23	0.82	26.86	120	0.74
231	8.60	34.15	1.76	500	5.49	34.18	1.02	27.00	107	0.86
289	7.66	34.15	1.55	600	5.40	34.29	0.93	27.09	98	0.97
375	7.03	34.23	0.79							
487	5.54	34.17	1.04							
633	5.38	34.33	0.31							

80.60

PAOLINA-T; October 23, 1957; 1320 GCT; 34°12.5'N, 121°11'W; sounding, 1350 fm; wind, 150°, force 4; weather, cloudy; sea, moderate; wire angle, 07°.

0	17.08	33.54	5.66	0	17.08	33.54	5.66	24.39	355	0.00
10	16.51	33.51	5.72	10	16.51	33.51	5.72	24.51	343	0.03
30	15.06	33.53	5.42	20	15.84	33.51	5.63	24.66	329	0.07
45	12.28	33.50	4.77	30	15.06	33.53	5.42	24.85	311	0.10
54	11.24	33.53	4.28	50	11.58	33.51	4.43	25.53	246	0.16
64	11.08	33.54	4.28	75	10.32	33.70	3.53	25.90	211	0.21
75	10.32	33.70	3.53	100	9.85	33.86	2.76	26.11	191	0.26
93	9.92	33.86	2.78	150	9.32	33.97	2.15	26.28	175	0.36
107	9.78	33.87	2.75	200	9.11	34.07	1.90	26.39	165	0.44
121	9.52	33.90	2.64	250	8.80	34.15	1.46	26.51	153	0.52
144	9.31	33.96	2.38	300	8.45	34.22	1.23	26.61	144	0.60
172	9.39	34.06	1.90	400	7.42	34.27	0.85	26.81	125	0.74
211	9.02	34.07	1.90	500	6.47		0.51			
262	8.73	34.18	1.37	600	(5.98)					
343	8.08	34.25	1.07							
443	6.90	34.29	0.65							
584	6.05	34.16r	0.37							

80.70

PAOLINA-T; October 23, 1957; 1904 GCT; 33°57'N, 121°53'W; sounding, 344 fm; wind, 170°, force 4; weather, cloudy; sea, moderate; wire angle, 00°.

0	17.24	33.48	5.65	0	17.24	33.48	5.65	24.31	362	0.00
10	17.12	33.48	5.73	10	17.12	33.48	5.73	24.34	359	0.04
30	15.18	33.74u	5.80	20	16.97	33.48	5.77	24.37	356	0.07
40	13.08	33.40	5.30	30	15.18	33.45	5.80	24.77	319	0.10
50	12.13	33.31	5.16	50	12.13	33.31	5.16	25.27	270	0.16
60	11.26	33.42	4.71	75	10.22	33.45	4.44	25.73	227	0.23
70	10.51	33.44	4.53	100	9.47	33.58	4.11	25.95	206	0.28
84	9.78	33.49	4.27	150	8.43	33.91	3.30	26.37	166	0.38
99	9.48	33.58	4.12	200	8.11	34.03	2.32	26.52	153	0.46
113	9.15	33.68	3.84	250	7.72	34.15	1.97	26.67	138	0.53
137	8.54	33.86	3.41	300	7.24	34.15	1.48	26.73	132	0.60
166	8.42	33.92	3.23	400	6.71	34.25	0.72	26.89	117	0.73
199	8.12	34.03	2.33	500	6.10	34.31	0.52	27.02	105	0.84
247	7.74	34.15	1.99							
325	7.02	34.14	1.24							
422	6.62	34.29	0.59							
549	5.72	34.31	0.52							

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

PAOLINA-T; October 24, 1957; 0215 GCT; 33°29'N, 122°31.5'W; sounding, 2000 fm; wind, 210°, force 3; weather, partly cloudy; sea, moderate; wire angle, 06°.

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80.80

0	18.84	33.31	5.46	0	18.84	33.31	5.46	23.79	412	0.00
10	18.76	33.30	5.28	10	18.76	33.30	5.28	23.80	411	0.04
30	18.68	33.32	5.38	20	18.72	33.31	5.33	23.82	409	0.08
45	18.52	33.39	5.46	30	18.68	33.32	5.38	23.84	407	0.12
55	16.50	33.29	6.00	50	18.12	33.37	5.58	24.01	391	0.20
64	14.72	33.24	5.97	75	13.63	33.24	6.05	24.93	304	0.29
73	13.81	33.24	6.05	100	11.19	33.26	5.62	25.41	257	0.36
92	11.99	33.29	5.77	150	8.92	33.53	4.19	26.01	201	0.47
107	10.54	33.23	5.50	200	8.38	33.87	3.16	26.35	168	0.57
121	9.44	33.48	5.21	250	7.81	34.03	2.37	26.56	148	0.65
145	8.99	33.51	4.33	300	7.30	34.06	1.87	26.66	139	0.72
173	8.70	33.71	3.40	400	6.49	34.15	1.15	26.84	122	0.86
212	8.22	33.93	3.06	500	5.76	34.23	0.52	27.01	106	0.98
266	7.64	34.05	2.10	600	(5.05)	(34.22)		(27.07)	(100)	(1.09)
346	6.88	34.07	1.61							
449	6.11	34.24	0.64							
593	5.10	34.22	0.38							

PAOLINA-T; October 24, 1957; 0833 GCT; 33°10.5'N, 123°05'W; sounding, 2300 fm; wind, 180°, force 3; weather, clear; sea, moderate; wire angle, 08°.

80.90

0	19.08	33.53	5.56	0	19.08	33.53	5.56	23.90	402	0.00
10	19.07	33.54	5.51	10	19.07	33.54	5.51	23.91	401	0.04
30	19.06	33.53	5.46	20	19.07	33.54	5.49	23.90	401	0.08
55	19.04	33.51	5.52	30	19.06	33.53	5.46	23.90	401	0.12
64	18.93	33.61	5.50	50	19.04	33.53	5.49	23.91	401	0.20
73	17.14	33.44	6.02	75	16.81	33.43	6.08	24.37	356	0.30
83	15.82	33.44	6.19	100	14.91	33.56	6.16	24.90	306	0.38
97	15.07	33.56	6.16	150	10.87	33.47	5.51	25.63	237	0.52
111	14.16	33.52	6.10	200	8.99	33.74	4.48	26.16	187	0.63
128	12.46	33.44	5.86	250	8.20	33.92	3.12	26.43	161	0.72
146	11.13	33.46	5.64	300	7.40	34.05	2.56	26.64	141	0.80
169	9.80	33.51	4.66	400	6.43	34.11	1.20	26.82	124	0.93
192	9.14	33.69	4.55	500	5.90	34.19	0.82	26.95	111	1.06
237	8.40	33.88	3.32							
311	7.28	34.06	2.49							
404	6.42	34.11	1.18							
530	5.78	34.22	0.73							

PAOLINA-T; October 26, 1957; 0433 GCT; 34°15'N, 119°57.5'W; sounding, 308 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 00°.

82.47

0	17.90	33.64	5.80	0	17.90	33.64	5.80	24.27	366	0.00
10	16.81	33.58	6.54	10	16.81	33.58	6.54	24.49	345	0.04
30	13.16	33.51	4.94	20	14.90	33.53	5.80	24.89	308	0.07
40	12.27	33.51	4.68	30	13.16	33.51	4.94	25.23	275	0.10
50	11.36	33.52	4.40	50	11.36	33.52	4.40	25.58	242	0.15
60	10.84	33.60	3.87	75	10.61	33.65	3.51	25.81	220	0.21
70	10.66	33.62	3.58	100	9.98	33.81	2.79	26.05	197	0.26
85	10.44	33.75	3.40	150	9.34	34.06	1.76	26.35	169	0.35
99	9.99	33.80	2.80	200	8.78	34.17	1.11	26.53	152	0.43
114	9.71	33.88	2.51	250	8.35	34.33	0.67	26.72	133	0.51
137	9.44	34.04	2.02	300	7.90	34.28	0.81	26.75	131	0.57
165	9.24	34.09	1.59	400	7.14	34.27	0.46	26.84	122	0.70
200	8.78	34.17	1.11	500	6.62	34.29	0.22	26.93	113	0.83
245	8.42	34.34 ^{a)}	0.66							
322	7.74	34.27 ^{a)}	0.85							
417	7.00	34.27	0.41							
544	6.45	34.29	0.16							

a) Possible evaporation; value falls on property curve.

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

8343

PAOLINA-T; October 26, 1957; 0840 GCT; 34°08'N, 119°34'W; sounding, 130 fm; wind, 270°, force 4; weather, clear; sea, moderate; wire angle, 04°.

0	17.56	33.60	5.78	0	17.56	33.60	5.78	24.28	365	0.00
10	16.85	33.57	5.88	10	16.85	33.57	5.88	24.47	347	0.04
30	13.76	33.51	5.30	20	15.54	33.53	5.72	24.75	321	0.07
50	12.91	33.52	4.83	30	13.76	33.51	5.30	25.11	286	0.10
74	10.40	33.58 ^{a)}	3.91	50	12.91	33.52	4.83	25.29	269	0.16
98	10.10	33.71	3.36	75	10.38	33.59	3.87	25.80	220	0.22
121	9.90	33.84	2.96	100	10.09	33.72	3.35	25.96	205	0.27
159	9.54	34.00	2.31	150	9.62	33.97	2.40	26.24	179	0.37
197	9.26	34.13	1.55	200	(9.23)	(34.15)	(1.54)	(26.43)	(161)	(0.45)

8370

PAOLINA-T; October 25, 1957; 0320 GCT; 33°15'N, 121°23'W; sounding, 2050 fm; wind, 300°, force 5; weather, cloudy; sea, moderate; wire angle, 25°.

0	17.28	33.51	5.60	0	17.28	33.51	5.60	24.32	361	0.00
9	17.29	33.51	5.58	10	17.27	33.51	5.60	24.32	361	0.04
27	16.40	33.49	5.70	20	16.84	33.50	5.64	24.42	352	0.07
41	15.45	33.47	5.75	30	16.20	33.49	5.71	24.56	339	0.11
51	13.38	33.38	5.24	50	13.60	33.39	5.29	25.05	292	0.17
59	12.71	33.37	5.02	75	11.19	33.41	4.68	25.52	247	0.24
69	11.78	33.37	4.86	100	9.56	33.51	4.34	25.89	212	0.30
85	10.20	33.48	4.36	150	8.72	33.83	2.67	26.27	176	0.39
98	9.58	33.51	4.36	200	7.86	33.99	2.27	26.52	152	0.48
110	9.16	33.55	4.02	250	7.36	34.07	1.82	26.66	139	0.55
130	8.89	33.71	3.33	300	7.00	34.12	1.43	26.74	131	0.62
152	8.70	33.84	2.63	400	5.88	34.15	0.84	26.92	115	0.75
182	8.12	33.96	2.44	500	5.21	34.21	0.49	27.05	102	0.86
225	7.57	34.02	2.07							
294	7.04	34.11	1.43							
384	6.01	34.14	0.92							
515	5.16	34.22	0.44							

8380

PAOLINA-T; October 24, 1957; 2106 GCT; 32°55'N, 122°04'W; sounding, 2080 fm; wind, 300°, force 4; weather, partly cloudy; sea, slight; wire angle, 16°.

0	19.14	33.51	5.65	0	19.14	33.51	5.65	23.87	404	0.00
10	18.94	33.48	5.40	10	18.94	33.48	5.40	23.90	401	0.04
29	18.90	33.49	5.57	20	18.90	33.49	5.50	23.90	401	0.08
53	18.66	33.48	5.32	30	18.90	33.49	5.55	23.91	400	0.12
62	17.76	33.42	5.58	50	18.72	33.49	5.36	23.95	397	0.20
72	16.44	33.46	5.77	75	16.12	33.49	5.84	24.58	337	0.29
81	15.64	33.51	5.91	100	14.78	33.53	5.78	24.91	305	0.37
95	15.06	33.53	5.80	150	9.73	33.43	4.84	25.80	221	0.51
109	13.81	33.54	5.77	200	8.63	33.82	3.48	26.27	176	0.61
126	11.72	33.44	5.32	250	7.79	34.02	2.74	26.56	149	0.69
144	9.98	33.41	5.02	300	7.32	34.09	1.71	26.68	137	0.76
165	9.34	33.58	4.45	400	6.53	34.22	0.87	26.89	117	0.90
188	8.86	33.76	3.66	500	5.84	34.29	0.32	27.04	103	1.01
232	8.02	33.98	3.13							
302	7.30	34.09	1.65							
392	6.60	34.21	0.90							
513	5.78	34.30	0.30							

a) Loose bottle cap; value falls on property curve.

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

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PAOLINA-T; October 24, 1957; 1505 GCT; 32°37.5'N, 122°37'W; sounding, 2250 fm; wind, 300°, force 3; weather, partly cloudy; sea, moderate; wire angle, 04°.

83.90

0	18.77	33.22	5.31	0	18.77	33.22	5.31	23.73	417	0.00
10	18.78	33.24	5.30	10	18.78	33.24	5.30	23.75	415	0.04
30	18.72	33.23	5.28	20	18.76	33.23	5.29	23.76	415	0.08
55	18.18	33.41	5.42	30	18.72	33.23	5.28	23.76	415	0.12
65	17.02	33.44	5.60	50	18.45	33.31	5.32	23.89	403	0.21
75	15.98	33.60	5.79	75	15.98	33.60	5.79	24.70	325	0.30
85	15.30	33.51	5.94	100	14.60	33.58	5.90	24.99	298	0.38
100	14.60	33.58	5.90	150	10.57	33.48	4.96	25.69	231	0.51
114	13.82	33.58	5.72	200	8.68	33.82	3.43	26.26	177	0.61
133	11.52	33.46	5.40	250	7.80	33.99	2.72	26.54	151	0.70
152	10.50	33.48	4.93	300	7.29	34.10	1.65	26.69	136	0.77
176	9.35	33.64	4.03	400	6.86	34.27	0.66	26.88	118	0.91
200	8.68	33.82	3.43	500	6.41	34.33	0.33	27.00	107	1.02
248	7.84	33.98	2.74							
324	7.16	34.13	1.31							
422	6.79	34.29	0.46							
548	6.10	34.36	0.26							

PAOLINA-T; October 26, 1957; 2119 GCT; 33°41.5'N, 118°59'W; sounding, 470 fm; wind, 360°, force 1; weather, cloudy; sea, rough; wire angle, 04°.

87.40

0	17.40	33.58	5.53	0	17.40	33.58	5.53	24.35	358	0.00
10	16.88	33.51	5.86	10	16.88	33.51	5.86	24.42	352	0.04
30	15.15	33.49 ^{a)}	5.88	20	16.10	33.49	5.88	24.59	336	0.07
40	13.04	33.40	5.74	30	15.15	33.49	5.88	24.80	316	0.10
50	12.46	33.46	5.74	50	12.46	33.46	5.74	25.32	266	0.16
59	11.37	33.44	5.63	75	10.65	33.62	4.52	25.79	222	0.22
69	10.88	33.62	4.74	100	9.67	33.71	3.63	26.02	200	0.28
83	10.26	33.62	4.23	150	9.16	34.02	2.39	26.35	169	0.37
97	9.76	33.69	3.72	200	8.94	34.20	1.81	26.52	152	0.45
114p	9.39	33.75	3.32	250	8.38	34.23	1.20	26.64	141	0.52
142p	9.17	33.98	2.56	300	7.92	34.26	1.23	26.72	133	0.60
183p	9.09	34.17	2.15	400	7.14	34.31		26.88	118	0.72
247p	8.40	34.23	1.20							
329p	7.65	34.27	1.26							
439p	6.86	34.33	1.88r							

PAOLINA-T; October 27, 1957; 0050 GCT; 33°33'N, 119°20'W; sounding, 650 fm; wind, 270°, force 1; weather, cloudy; sea, rough; wire angle, 20°.

87.45

0	16.65	33.51	5.92	0	16.65	33.51	5.92	24.47	347	0.00
10	15.44	33.55	6.06	10	15.44	33.55	6.06	24.78	318	0.03
29	11.37	33.53	4.41	20	13.46	33.55	5.37	25.20	278	0.06
38	10.66	33.58	3.95	30	11.34	33.53	4.38	25.59	240	0.09
47	10.18	33.62	3.96	50	10.05	33.63	3.86	25.90	211	0.13
56	9.92	33.66	3.39	75	9.74	33.83	2.60	26.10	192	0.18
65	9.87	33.77	2.87	100	9.53	33.97	2.29	26.25	178	0.23
78	9.71	33.85	2.58	150	9.01	34.19	1.67	26.50	154	0.32
92	9.60	33.97	2.48	200	8.65	34.23	1.41	26.58	146	0.39
104	9.50	33.97	2.29	250	8.23	34.24	1.10	26.66	139	0.46
124	9.36	34.10	1.94	300	7.69	34.27	0.81	26.76	129	0.53
148	9.02	34.19	1.67	400	6.94	34.31	0.53	26.91	116	0.66
175	8.76	34.22	1.52	500	(6.32)	(34.34)	(0.33)	(27.02)	(105)	(0.77)
218	8.58	34.23	1.34							
286	7.81	34.26	0.98							
373	7.14	34.30	0.61							
489	6.37	34.34	0.36							

a) Possible evaporation; value falls on property curve.

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

87.55

PAOLINA-T; October 27, 1957; 0850 GCT; 33°07.5'N, 119°59.5'W; sounding, 650 fm; wind, variable, force 1; weather, clear; sea, rough; wire angle, 12°.

0	16.34	33.46	5.48	0	16.34	33.46	5.48	24.51	343	0.00
10	16.24	33.45	5.60	10	16.24	33.45	5.60	24.52	342	0.03
30	16.12	33.48	5.70	20	16.18	33.47	5.67	24.56	339	0.07
40	15.96	33.46	5.56	30	16.12	33.48	5.70	24.58	337	0.10
49	14.42	33.38	5.42	50	14.15	33.37	5.42	24.91	305	0.17
59	12.19	33.22	5.56	75	11.34	33.23	5.23	25.36	263	0.24
68	11.75	33.23	5.35	100	10.06	33.32	4.87	25.65	235	0.30
83	10.92	33.22 ^{a)}	5.12	150	8.74	33.81	3.28	26.25	178	0.41
97	10.18	33.30 ^{a)}	4.92	200	7.99	34.04	2.11	26.55	150	0.49
111	9.62	33.40	4.56	250	7.65	34.11	1.61	26.65	140	0.56
134	9.03	33.66	3.71	300	7.23	34.14	1.27	26.72	133	0.63
162	8.53	33.89	3.00	400	6.73	34.27	0.60	26.90	116	0.76
195	8.03	34.01 ^{a)}	2.28							
241	7.74	34.11 ^{a)}	1.71							
317	7.10	34.15	1.18							
413	6.68	34.28	0.57							

87.60

PAOLINA-T; October 27, 1957; 1412 GCT; 32°57.5'N, 120°16.5'W; sounding, 345 fm; wind, 090°, force 1; weather, partly cloudy; sea, rough; wire angle, 06°.

0	18.04	33.39	5.35	0	18.04	33.39	5.35	24.05	387	0.00
4	18.05	33.40 ^{a)}	5.44	10	18.04	33.40	5.35	24.05	387	0.04
14	18.04	33.40	5.32	20	18.01	33.40	5.32	24.06	386	0.08
34	17.19	33.37	5.79	30	17.64	33.39	5.50	24.14	378	0.12
44	15.58	33.35	5.72	50	15.10	33.34	5.90	24.69	326	0.18
54	14.69	33.33 ^{a)}	6.08	75	11.38	33.15	5.56	25.29	269	0.26
64	12.74	33.21 ^{a)}	5.63	100	10.30	33.29	5.58	25.59	241	0.33
74	11.42	33.15 ^{a)}	5.53	150	8.83	33.75	3.41	26.18	185	0.43
88	10.79	33.21 ^{a)}	5.71	200	8.20	33.95	3.47	26.44	160	0.52
122	9.18	33.47	5.16	250	7.88	34.09	2.14	26.60	145	0.60
141	8.92	33.68	3.76	300	7.56	34.21	1.27	26.74	131	0.67
168	8.66	33.89	3.29	400	6.51	34.21	0.90	26.89	118	0.80
203	8.17	33.95	3.49	500	5.70	34.25	0.52	27.02	105	0.92
250	7.88	34.09	2.14							
326	7.39	34.24	1.06							
422	6.28	34.20	0.88							
550	5.55	34.28	0.34							

87.70

PAOLINA-T; October 27, 1957; 2050 GCT; 32°40'N, 121°02.5'W; sounding, 2100 fm; wind, 340°, force 3; weather, clear; sea, high; wire angle, 10°.

0b)	18.06	33.33		0	18.06	33.33		24.00	392	0.00
10	17.84	33.35		10	17.84	33.35		24.07	385	0.04
30	17.78	33.37		20	17.80	33.37		24.09	383	0.08
45	16.78	33.44		30	17.78	33.37		24.09	383	0.12
55	15.39	33.25		50	16.10	33.36		24.49	346	0.19
65	13.53	33.24		75	11.90	33.22		25.25	273	0.26
74	11.94	33.22		100	10.49	33.41		25.65	235	0.33
93	11.00	33.35		150	9.05	33.65		26.07	195	0.44
108	9.92	33.46		200	8.60	34.05		26.46	158	0.53
122	9.52	33.62		250	8.26	34.20		26.63	142	0.60
145	9.12	33.64		300	7.84	34.22		26.70	135	0.68
173	8.84	33.96		400	6.99	34.23		26.83	123	0.81
210	8.50	34.07		500	6.30	34.26		26.95	111	0.93
262	8.19	34.22		600	(5.64)	(34.36)		(27.12)	(95)	(1.04)
343	7.44	34.22								
444	6.67	34.23								
586	5.76	34.34								

a) Possible evaporation; value falls on property curve.

b) Meter wheel readings not recorded when cast retrieved; depths acceptable.

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

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PAOLINA-T; October 28, 1957; 0320 GCT; 32°19'N, 121°42'W; sounding, 2200 fm; wind, 360°, force 4; weather, cloudy; sea, very rough; wire angle, 09°.

8780

0	18.20	33.18	5.15	0	18.20	33.18	5.15	23.85	406	0.00
10	18.20	33.18	5.39	10	18.20	33.18	5.39	23.85	406	0.04
30	18.04	33.20	5.08	20	18.15	33.19	5.12	23.87	404	0.08
45	17.78	33.24	5.27	30	18.04	33.20	5.08	23.91	401	0.12
55	16.60	33.20	5.71	50	17.59	33.24	5.38	24.04	388	0.20
65	15.29	33.20	5.67	75	13.85	33.29	5.71	24.91	305	0.29
74	13.94	33.28	5.71	100	11.81	33.35	5.30	25.37	262	0.36
94	12.18	33.39	5.27	150	9.72	33.61	3.78	25.93	208	0.48
108	11.12	33.26	5.41	200	8.79	33.83	3.38	26.26	177	0.58
122	10.52	33.37	5.02	250	7.88	33.97	2.65	26.51	153	0.66
146	9.79	33.57	3.87	300	7.36	34.07	1.87	26.66	139	0.74
173	9.47	33.70	3.38	400	6.59	34.19	0.80	26.86	120	0.87
211	8.48	33.87	3.38	500	5.91	34.27	0.44	27.01	106	0.99
263	7.68	34.00	2.38	600	(5.45)	(34.37)		(27.14)	(93)	(1.10)
345	7.03	34.14	1.30							
446	6.26	34.22	0.60							
588	5.54	34.35	0.35							

PAOLINA-T; October 28, 1957; 0944 GCT; 31°58'N, 122°22.5'W; sounding, 2400 fm; wind, 270°, force 4; weather, overcast; sea, rough; wire angle, 12°.

8790

0	18.34	33.26	5.52	0	18.34	33.26	5.52	23.88	403	0.00
10	18.36	33.23	5.26	10	18.36	33.23	5.26	23.85	406	0.04
30	18.30	33.24	5.56	20	18.33	33.23	5.50	23.86	405	0.08
44	17.86	33.40	5.75	30	18.30	33.24	5.56	23.87	404	0.12
54	16.46	33.44	5.80	50	17.38	33.43	5.78	24.24	369	0.20
63	15.04	33.37	5.93	75	13.78	33.25	5.95	24.90	306	0.28
73	13.90	33.25	5.95	100	11.85	33.27	5.75	25.30	268	0.36
92	12.66	33.26	5.94	150	9.37	33.49	4.63	25.90	211	0.48
106	11.34	33.28	5.62	200	8.52	33.97	3.00	26.41	163	0.57
120	10.42	33.28	5.24	250	7.86	34.03	2.46	26.55	149	0.65
143	9.48	33.44	4.81	300	7.28	34.09	1.81	26.68	137	0.73
170	8.96	33.63	3.92	400	6.20	34.15	0.91	26.88	118	0.86
206	8.46	34.00	2.90	500	5.53	34.25	0.40	27.04	103	0.98
257	7.78	34.03	2.40							
334	6.90	34.14	1.30							
433	5.84	34.15	0.75							
571	5.46	34.32	0.28							

PAOLINA-T; October 30, 1957; 1033 GCT; 33°24.5'N, 117°55'W; sounding, 340 fm; wind, 360°, force 1; weather, clear; sea, slight; wire angle, 03°.

9030

0	18.84	5.37	0	18.84	5.37
10	18.81	5.13	10	18.81	5.13
30	15.68	5.70	20	17.90	5.28
40	13.68	5.86	30	15.68	5.70
50	12.56	5.28	50	12.56	5.28
60	11.96	5.06	75	11.30	3.83
70	11.39	3.98	100	10.85	3.22
85	11.26	3.67	150	9.83	2.62
100	10.85	3.22	200	9.45	2.06
114	10.44	3.01	250	8.30	2.10
138	9.81	2.92	300	8.13	1.36
166	9.90	2.24	400	7.37	0.98
199	9.45	2.06	500	6.59	0.61
247	8.28	2.13			
323	7.98	1.13			
419	7.21	0.94			
546	6.20	0.32			

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

9037

PAOLINA-T; October 30, 1957; 0604 GCT; 33°10.5'N, 118°23.5'W; sounding, 650 fm; wind, calm; weather, partly cloudy; sea, slight; wire angle, 00°.

0	18.67	5.69	0	18.67	5.69
10	17.86	5.94	10	17.86	5.94
30	12.94	5.90	20	16.02	5.96
40	11.83	5.06	30	12.94	5.90
50	11.56	4.87	50	11.56	4.87
60	10.97	4.10	75	10.79	3.70
70	10.82	3.82	100	10.46	3.18
84	10.68	3.39	150	9.98	2.30
98	10.48	3.23	200	9.59	1.90
112	10.18	2.82	250	9.20	1.55
136	10.02	2.37	300	8.69	1.27
165	9.84	2.23	400	7.57	0.76
199	9.60	1.91	500	6.64	0.40
247	9.23	1.59			
323	8.40	1.12			
421	7.34	0.65			
550	6.21	0.28			

9045

PAOLINA-T; October 29, 1957; 2322 GCT; 32°54.5'N, 118°56'W; sounding, 950 fm; wind, 360°, force 3; weather, clear; sea, moderate; wire angle, 04°.

0	17.18	33.48	5.15	0	17.18	33.48	5.15	24.33	360	0.00
10	16.56	33.45	5.50	10	16.56	33.45	5.50	24.45	349	0.04
30	13.60	33.26	5.50	20	15.39	33.37	5.55	24.66	329	0.07
40	12.42	33.37	4.91	30	13.60	33.26	5.50	24.95	302	0.10
50	11.78	33.47	4.40	50	11.78	33.47	4.40	25.40	253	0.16
60	11.62	33.46	4.50	75	10.60	33.50	4.08	25.70	231	0.22
70	10.93	33.44	4.51	100	10.03	33.73	3.31	25.97	204	0.27
84	10.16	33.64 ^{a)}	3.41	150	9.43	33.95	2.29	26.25	178	0.37
99	10.04	33.73 ^{a)}	3.32	200	9.08	34.19	1.61	26.49	155	0.45
112	9.92	33.78	2.96	250	8.63	34.21	1.28	26.57	147	0.53
137	9.58	33.93 ^{a)}	2.35	300	8.21	34.25	1.10	26.67	138	0.60
162	9.33	33.98 ^{a)}	2.19	400	7.33	34.29	0.69	26.83	123	0.74
197	9.10	34.19	1.63	500	6.47	34.33	0.49	26.98	109	0.86
245	8.69	34.20	1.30							
320	8.04	34.26	1.03							
418	7.14	34.29	0.61							
544	6.14	34.34	0.41							

9053

PAOLINA-T; October 29, 1957; 1752 GCT; 32°39'N, 119°30'W; sounding, 400 fm; wind, 360°, force 2; weather, clear; sea, moderate; wire angle, 16°.

0	17.08	33.39	5.79	0	17.08	33.39	5.79	24.28	365	0.00
10	16.74	33.42	5.85	10	16.74	33.42	5.85	24.38	355	0.04
28	15.22	33.36	5.72	20	16.10	33.40	5.81	24.52	343	0.07
38	14.62	33.36	5.73	30	15.18	33.36	5.72	24.69	326	0.10
47	12.92	33.30	5.48	50	12.82	33.30	5.49	25.13	284	0.16
56	12.57	33.30	5.56	75	10.81	33.33	5.08	25.53	246	0.23
66	11.24	33.28	5.48	100	10.22	33.56	4.10	25.81	220	0.29
80	10.64	33.38	4.79	150	9.37	33.95	2.63	26.26	177	0.39
93	10.38	33.51	4.44	200	8.91	34.10	1.77	26.45	159	0.48
106	10.10	33.63	3.70	250	8.42	34.19	1.53	26.59	146	0.55
128	9.56	33.83	2.72	300	8.02	34.23	1.27	26.68	137	0.63
154	9.35	33.96	2.61	400	6.79	34.25	0.44	26.88	118	0.76
185	9.06	34.07	1.82	500	6.19	34.31	0.38	27.01	106	0.87
229	8.60	34.16	1.65							
300	8.02	34.23	1.27							
389	6.89	34.25	0.46							
508	6.17	34.31	0.38							

a) Possible evaporation; value falls on property curve.

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

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PAOLINA-T; October 29, 1957; 1302 GCT; 32°23.5'N, 119°58.5'W; sounding, 1000 fm; wind, 300°, force 3; weather, overcast; sea, slight; wire angle, 07°.

9060

0	17.39	33.42	5.75	0	17.39	33.42	5.75	24.23	370	0.00
9	16.82	33.47	5.85	10	16.80	33.47	5.85	24.40	353	0.04
30	16.18	33.42	5.80	20	16.49	33.45	5.84	24.47	347	0.07
40	15.02	33.35	5.67	30	16.18	33.42	5.80	24.51	343	0.10
50	14.56	33.37	5.70	50	14.56	33.37	5.70	24.83	313	0.17
60	12.94	33.29 ^{a)}	5.53	75	12.21	33.33	5.34	25.27	271	0.24
70	12.55	33.30	5.50	100	10.53	33.49	4.28	25.71	229	0.31
85	11.28	33.40	4.74	150	9.17	33.81	3.03	26.19	184	0.41
99	10.55	33.49	4.30	200	8.45	34.04	2.40	26.47	157	0.50
113	9.93	33.62	3.70	250	7.54	34.07	1.80	26.64	141	0.58
137	9.41	33.73	3.37	300	7.17	34.15	1.30	26.74	131	0.64
165	8.88	33.95	2.56	400	6.73	34.29	0.66	26.91	115	0.77
198	8.48	34.04	2.41	500	6.25	34.33	0.40	27.01	105	0.89
245	7.60	34.07	1.86							
320	7.02	34.18	1.16							
414	6.66	34.30	0.57							
540	6.00	34.34	0.32							

PAOLINA-T; October 29, 1957; 0655 GCT; 32°05'N, 120°38'W; sounding, 2100 fm; wind, calm; weather, overcast; sea, slight; wire angle, 02°.

9070

0	18.96	33.73	5.38	0	18.96	33.73	5.38	24.08	384	0.00
10	18.97	33.71	5.21	10	18.97	33.71	5.21	24.06	386	0.04
30	18.95	33.75	4.99	20	18.96	33.73	5.10	24.08	384	0.08
55	18.78	33.75	5.30	30	18.95	33.75	4.99	24.10	382	0.12
65	13.36	33.54	4.64	50	18.82	33.75	5.20	24.13	379	0.19
75	11.85	33.57	3.99	75	11.85	33.57	3.99	25.52	247	0.27
84	10.29	33.68	3.28	100	9.50	33.78	3.07	26.11	191	0.33
99	9.52	33.78 ^{a)}	3.06	150	8.72	33.95	2.58	26.36	167	0.42
113	9.17	33.79	3.27	200	8.07	34.05	2.25	26.55	150	0.50
133	8.96	33.87	2.85	250	7.41	34.06	2.00	26.64	141	0.57
152	8.71	33.95	2.55	300	6.87	34.11	1.47	26.76	129	0.64
175	8.46	34.00	2.38	400	6.00	34.21	0.79	26.95	111	0.77
199	8.08	34.05	2.25	500	5.43	34.30	0.59	27.08	99	0.88
246	7.46	34.06 ^{a)}	2.03							
323	6.65	34.14 ^{a)}	1.21							
419	5.88	34.22	0.74							
546	5.28	34.33	0.56							

PAOLINA-T; October 28, 1957; 2323 GCT; 31°42'N, 121°17'W; sounding, 2060 fm; wind, 340°, force 3; weather, overcast; sea, rough; wire angle, 13°.

9080

0	18.66	33.51 ^{b)}	4.81	0	18.66	33.51	4.81	23.99	393	0.00
10	18.66	33.64 ^{b)}	4.86	10	18.66	33.51	4.86	23.99	393	0.04
29	18.50	33.51 ^{a)}	4.48	20	18.62	33.51	4.70	24.00	392	0.08
43	17.14	33.45 ^{a)}	5.17	30	18.49	33.51	4.48	24.03	389	0.12
52	14.93	33.36 ^{a)}	5.35	50	15.41	33.37	5.33	24.65	330	0.19
62	13.30	33.39 ^{a)}	5.35	75	12.11	33.37	5.09	25.32	266	0.26
71	12.32	33.37	5.18	100	10.64	33.39	4.64	25.60	239	0.33
90	11.38	33.37 ^{a)}	4.83	150	8.82	33.78	3.16	26.22	181	0.44
104	10.35	33.39 ^{a)}	4.58	200	8.12	33.97	2.40	26.47	157	0.52
117	9.54	33.43 ^{a)}	4.34	250	7.56	34.05	1.98	26.62	143	0.60
140	9.02	33.68	3.43	300	7.24	34.12	1.36	26.72	133	0.67
168	8.46	33.93	2.72	400	6.59	34.27	0.72	26.93	114	0.80
204	8.06	33.97 ^{c)}	2.33	500	5.80	34.30	0.43	27.05	102	0.91
254	7.50	34.05 ^{c)}	1.95							
333	7.12	34.16 ^{c)}	1.14							
431	6.30	34.29 ^{c)}	0.59							
573	5.36	34.31	0.31							

a) Possible evaporation; value falls on property curve.

b) Loose bottle cap; value does not fall on property curve.

c) Broken bottle cap; value falls on property curve.

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

9090

PAOLINA-T; October 28, 1957; 1615, 1650 GCT; 31°21'N, 121°56.5'W; sounding, 2200 fm; wind, 320°, force 4; weather, overcast; sea, very rough; wire angle, 03°, 05°.

0	19.16	33.60	6.05	0	19.16	33.60	6.05	23.94	398	0.00
10	19.18	33.62	5.42	10	19.18	33.62	5.42	23.94	398	0.04
30	19.16	33.60	5.32	20	19.17	33.61	5.39	23.94	398	0.08
45	19.16	33.61	5.20	30	19.16	33.60	5.32	23.94	398	0.12
55	16.77	33.44	5.75	50	18.92	33.60	5.26	23.99	393	0.20
65	14.18	33.33	6.19	75	12.74	33.33	5.83	25.17	280	0.28
75	12.74	33.33	5.83	100	10.84	33.35	5.47	25.53	246	0.35
93	11.26	33.33	5.59	150	9.05	33.65	3.85	26.07	195	0.46
108	10.36	33.37	5.33	200	8.23	33.93	2.24	26.42	162	0.55
				250	7.52	34.02	1.97	26.60	145	0.63
118	9.75	33.40	5.32	300	7.00	34.13	1.42	26.75	130	0.70
142	9.23	33.55	4.23	400	6.30	34.21	0.63	26.92	115	0.83
170	8.67	33.84 ^{a)}	2.95	500	5.63	34.27	0.39	27.04	103	0.94
208	8.12	34.12 ^{a)}	2.11	600	(5.29)	(34.34)		(27.14)	(93)	(1.05)
260	7.39	34.04	1.90							
342	6.76	34.19	0.96							
444	5.96	34.23	0.48							
588	5.30	34.33	0.31							

9330

PAOLINA-T; November 1, 1957; 0141 GCT; 32°50'N, 117°31.5'W; sounding, 450 fm; wind, 140°, force 2; weather, cloudy; sea, slight; wire angle, 03°.

0	18.84	33.60	5.60	0	18.84	33.60	5.60	24.01	391	0.00
10	18.82	33.62	5.72	10	18.82	33.62	5.72	24.03	389	0.04
30	15.98	33.53	6.13	20	18.03	33.60	5.87	24.21	372	0.08
40	14.64	33.48	6.30	30	15.98	33.53	6.13	24.64	331	0.11
50	13.24	33.40	6.09	50	13.24	33.40	6.09	25.12	285	0.17
60	12.66	33.46	5.70	75	11.65	33.49	5.04	25.50	249	0.24
70	11.91	33.47	5.22	100	10.96	33.70	3.78	25.79	221	0.30
84	11.34	33.58	4.74	150	10.31	33.93	2.97	26.08	194	0.41
98	10.98	33.68	3.93	200	9.38	34.08	1.20	26.36	167	0.50
113	10.89	33.75	3.37	250	9.10	34.20	1.52	26.49	155	0.58
137	10.61	33.88	3.25	300	8.43	34.23	1.31	26.62	143	0.66
166	9.89	33.97	2.37	400	7.42	34.29	0.76	26.82	124	0.80
199	9.40	34.07	1.20	500	6.69	34.32	0.64	26.95	111	0.92
249	9.16	34.20	1.52							
325	8.12	34.24	1.18							
424	7.26	34.30	0.64							
553	6.22	34.34	0.68							

9340

PAOLINA-T; November 1, 1957; 0842 GCT; 32°30'N, 118°12.5'W; sounding, 885 fm; wind, 300°, force 3; weather, cloudy; sea, moderate; wire angle, 10°.

0	18.31	33.59		0	18.31	33.59		24.14	379	0.00
10	18.33	33.59		10	18.33	33.59		24.14	379	0.04
30	17.80	33.58		20	18.31	33.59		24.14	379	0.08
40	15.26	33.50		30	17.80	33.58		24.25	368	0.11
50	13.85	33.47		50	13.85	33.47		25.06	291	0.18
60	12.46	33.46		75	11.21	33.50		25.59	241	0.24
69	11.67	33.47		100	10.28	33.65		25.86	215	0.30
83	10.72	33.55		150	9.39	34.01		26.30	173	0.40
98	10.32	33.64		200	8.65	34.11		26.50	154	0.49
112	9.96	33.69		250	8.59	34.24		26.61	143	0.56
135	9.52	33.89		300	8.03	34.25		26.70	135	0.63
163	9.28	34.05		400	7.04	34.32		26.90	116	0.76
195	8.68	34.10		500	6.35	34.34		27.01	106	0.88
242	8.64	34.23								
317	7.82	34.26								
413	6.98	34.33								
540	6.12	34.34								

a) Loose bottle cap; value does not fall on property curve.

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

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PAOLINA-T; November 1, 1957; 1503 GCT; 32°10'N, 118°53'W; sounding, 720 fm; wind, 270°, force 3; weather, cloudy; sea, moderate; wire angle, 02°.

0	18.82	33.64	5.14	0	18.82	33.64	5.14	24.05	387	0.00
10	18.84	33.66	5.40	10	18.84	33.66	5.40	24.06	386	0.04
30	16.68	33.48	5.80	20	18.81	33.65	5.43	24.06	386	0.08
40	14.44	33.41	5.85	30	16.68	33.48	5.80	24.44	350	0.11
50	13.14	33.42	5.38	50	13.14	33.42	5.38	25.17	281	0.18
60	12.50	33.46	5.00	75	11.76	33.48	4.37	25.48	251	0.24
70	12.00	33.49	4.28	100	10.72	33.62	3.83	25.77	224	0.30
85	11.14	33.44	4.63	150	10.00	33.86	2.83	26.08	194	0.41
99	10.75	33.61	3.87	200	8.94	33.99	2.54	26.36	167	0.50
113	10.45	33.71	3.57	250	8.78	34.19	1.78	26.55	150	0.58
137	10.08	33.75	3.10	300	8.25	34.27	1.33	26.68	136	0.66
166	9.64	33.94 ^{a)}	2.59	400	7.03	34.27	0.88	26.86	120	0.79
198	8.96	33.99	2.58	500	6.31	34.31	0.59	27.00	107	0.91
245	8.80	34.18	1.84							
323	8.00	34.29	1.18							
419	6.85	34.27	0.82							
547	6.15	34.34	0.54							

PAOLINA-T; November 1, 1957; 2205 GCT; 31°50'N, 119°35'W; sounding, 1480 fm; wind, 300°, force 3; weather, cloudy; sea, very rough; wire angle, 08°.

0	18.53	33.62	5.52	0	18.53	33.62	5.52	24.11	382	0.00
10	18.52	33.67	5.70	10	18.52	33.67	5.70	24.15	378	0.04
30	17.79	33.63	5.69	20	18.26	33.65	5.70	24.20	373	0.08
45	13.70	33.43	6.01	30	17.79	33.63	5.69	24.29	364	0.11
54	12.60	33.43	5.42	50	13.00	33.43	5.69	25.20	278	0.18
64	11.79	33.46	4.90	75	11.17	33.49	4.42	25.59	241	0.24
73	11.21	33.48	4.48	100	10.42	33.65	3.71	25.85	216	0.30
93	10.56	33.58	3.87	150	9.75	33.97	2.42	26.21	181	0.40
107	10.34	33.69	3.54	200	8.55	34.03	2.30	26.45	159	0.49
121	9.96	33.84	2.87	250	7.82	34.06	1.92	26.58	146	0.56
144	9.86	33.95	2.41	300	7.60	34.18	1.35	26.70	135	0.64
172	9.12	33.99	2.51	400	7.00	34.33	0.59	26.92	115	0.77
210	8.34	34.04	2.19	500	6.02	34.34	0.44	27.05	102	0.88
262	7.74	34.07	1.83	600	(5.21)	(34.31)		(27.12)	(95)	(0.98)
342	7.52	34.27	0.86							
443	6.59	34.35	0.49							
585	5.34	34.31	0.42							

PAOLINA-T; November 2, 1957; 0432 GCT; 31°30'N, 120°14'W; sounding, 2100 fm; wind, 320°, force 3; weather, cloudy; sea, very rough; wire angle, 00°.

0	18.76	33.68		0	18.76	33.68		24.10	383	0.00
10	18.76	33.59		10	18.76	33.59		24.03	389	0.04
30	18.74	33.58		20	18.74	33.58		24.03	389	0.08
40	18.64	33.59		30	18.74	33.58		24.02	390	0.12
50	16.49	33.40		50	16.49	33.40		24.43	351	0.19
60	14.86	33.34		75	12.70	33.32		25.17	280	0.27
70	13.06	33.31		100	10.71	33.29		25.52	247	0.34
85	11.92	33.35		150	9.17	33.71		26.11	191	0.45
99	10.72	33.29		200	8.40	33.95		26.41	163	0.54
114	10.02	33.39		250	7.48	34.06		26.63	141	0.62
137	9.36	33.55		300	7.08	34.12		26.74	132	0.69
166	9.06	33.82		400	6.20	34.19		26.91	115	0.82
198	8.42	33.95		500	5.70	34.30		27.06	101	0.93
246	7.56	34.05								
321	6.87	34.15								
416	6.08	34.20								
542	5.64	34.32								

a). Possible evaporation; value falls on property curve.

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

9380

PAOLINA-T; November 2, 1957; 1058 GCT; 31°11'N, 120°52'W; sounding, 2060 fm; wind, 300°, force 4; weather, drizzle; sea, rough; wire angle, 10°.

0	19.44	33.62	5.51	0	19.44	33.62	5.51	23.87	404	0.00
10	19.43	33.62	5.51	10	19.43	33.62	5.51	23.87	404	0.04
30	19.44	33.66	5.23	20	19.43	33.64	5.40	23.89	403	0.08
40	19.26	33.62	5.46	30	19.44	33.66	5.23	23.90	401	0.12
49	16.56	33.41	5.94	50	16.49	33.41	5.95	24.43	351	0.20
58	15.10	33.40	6.20	75	13.69	33.43	6.10	25.06	291	0.28
68	14.36	33.41	6.14	100	12.08	33.43	5.70	25.38	261	0.35
82	13.02	33.44	6.08	150	9.50	33.57	4.60	25.94	207	0.46
96	12.35	33.44 ^{a)}	5.81	200	8.61	33.93	2.87	26.36	167	0.56
109	11.24	33.39 ^{a)}	5.38	250	7.90	34.08	2.63	26.59	145	0.64
132	9.93	33.44	5.25	300	7.25	34.10	1.74	26.69	136	0.71
160	9.32	33.68	4.07	400	6.43	34.20	0.79	26.89	117	0.84
193	8.74	33.89	2.92	500	6.00	34.29	0.46	27.02	105	0.96
237	8.08	34.07	2.77							
313	7.09	34.10	1.60							
408	6.40	34.21	0.77							
533	5.86	34.32	0.39							

9390

PAOLINA-T; November 2, 1957; 1720 GCT; 30°52.5'N, 121°29'W; sounding, 2240 fm; wind, 270°, force 3; weather, cloudy; sea, very rough; wire angle, 10°.

0	19.56	33.57	5.52	0	19.56	33.57	5.52	23.81	410	0.00
10	19.55	33.57	5.56	10	19.55	33.57	5.56	23.81	410	0.04
30	19.54	33.56	5.58	20	19.54	33.57	5.57	23.81	410	0.08
54	16.25	33.41 ^{b)}	6.18	30	19.54	33.56	5.58	23.81	410	0.12
64	15.16	33.44 ^{b)}	6.17	50	17.20	33.44	5.86	24.29	364	0.20
73	14.21	33.40	6.15	75	14.10	33.40	6.13	24.95	301	0.28
83	13.40	33.42	6.05	100	11.61	33.40	5.68	25.44	255	0.36
97	11.89	33.40	5.73	150	9.44	33.58	4.37	25.96	205	0.47
111	10.88	33.39	5.50	200	8.70	33.91	3.28	26.34	169	0.57
130	10.11	33.43	4.95	250	7.86	34.05	2.28	26.57	147	0.65
149	9.45	33.58	4.38	300	7.41	34.10	1.78	26.67	138	0.72
172	9.05	33.77	3.84	400	6.41	34.15	1.03	26.85	121	0.86
196	8.78	33.89	3.39	500	5.70	34.24	0.53	27.02	105	0.98
243	7.97	34.04 ^{b)}	2.41							
319	7.26	34.11 ^{b)}	1.64							
415	6.25	34.16	0.93							
541	5.52	34.27	0.48							

9732

PAOLINA-T; November 4, 1957; 1300 GCT; 32°12.5'N, 117°17'W; sounding, 700 fm; wind, 140°, force 3; weather, drizzle; sea, moderate; wire angle, 03°.

0	18.86	33.60	5.70	0	18.86	33.60	5.70	24.01	391	0.00
10	18.87	33.61	5.69	10	18.87	33.61	5.69	24.01	391	0.04
30	17.72	33.54	6.00	20	18.86	33.61	5.70	24.01	391	0.08
40	14.96	33.39	6.47	30	17.72	33.54	6.00	24.24	369	0.12
50	13.66	33.38	6.26	50	13.66	33.38	6.26	25.10	287	0.18
60	12.64	33.40	5.35	75	11.40	33.44	4.62	25.51	248	0.25
70	11.68	33.41	4.90	100	10.84	33.58	4.02	25.72	228	0.31
85	11.09	33.50	4.22	150	10.08	33.87	2.60	26.07	195	0.42
99	10.85	33.58	4.02	200	9.82	34.20	1.74	26.38	166	0.51
113	10.54	33.75	3.40	250	9.27	34.30	1.34	26.55	149	0.59
137	10.06	33.78	2.91	300	8.63	34.29	1.12	26.64	141	0.66
165	10.20	34.06	1.96	400	7.44	31.31	0.78	26.83	123	0.80
198	9.84	34.19	1.78	500	6.60	34.34	0.53	26.98	109	0.92
246	9.29	34.30	1.36							
323	8.34	34.29	1.04							
420	7.24	34.31	0.72							
548	6.24	34.35	0.47							

a) Broken bottle cap; value falls on property curve.

b) Possible evaporation; value falls on property curve.

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

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PAOLINA-T; November 4, 1957; 0658 GCT; 31°55'N, 117°49.5'W; sounding, 660 fm; wind, 270°, force 2; weather, clear; sea, moderate; wire angle, 00°.

97.40

0	18.37	33.57	5.81	0	18.37	33.57	5.81	24.11	381	0.00
10	18.39	33.58	5.92	10	18.39	33.58	5.92	24.11	381	0.04
30	15.35	33.48	5.93	20	18.38	33.58	5.93	24.11	381	0.08
40	13.42	33.47	5.95	30	15.35	33.48	5.93	24.75	321	0.11
50	12.52	33.46	5.63	50	12.52	33.46	5.63	25.31	267	0.17
60	11.78	33.47	4.43	75	11.00	33.56	4.45	25.67	233	0.23
70	11.29	33.54	4.48	100	9.84	33.67	4.04	25.96	206	0.29
84	10.37	33.58	4.24	150	9.48	33.98	2.50	26.26	177	0.39
99	9.85	33.66	4.07	200	9.72	34.24	1.42	26.43	161	0.47
113	9.66	33.75 ^{a)}	3.48	250	9.03	34.33	1.22	26.60	144	0.55
137	9.38	33.86 ^{a)}	2.98	300	8.56	34.33	1.03	26.69	136	0.62
165	9.72	34.11	1.97	400	7.46	34.31	0.69	26.83	123	0.76
198	9.74	34.24	1.43	500	6.52	34.31	0.54	26.96	110	0.88
245	9.10	34.33	1.24							
323	8.32	34.33	0.96							
420	7.26	34.31	0.64							
548	6.06	34.31	0.51							

PAOLINA-T; November 4, 1957; 0036 GCT; 31°35'N, 118°30'W; sounding, 880 fm; wind, 320°, force 3; weather, partly cloudy; sea, rough; wire angle, 00°.

97.50

0	18.49	33.58	6.00	0	18.49	33.58	6.00	24.08	384	0.00
10	18.49	33.60	5.81	10	18.49	33.60	5.81	24.10	382	0.04
31	15.40	33.50	6.66	20	18.49	33.60	5.81	24.10	382	0.08
46	12.90	33.45	6.19	30	15.72	33.51	6.61	24.69	327	0.11
56	12.08	33.46	5.52	50	12.46	33.45	5.89	25.32	266	0.17
66	11.71	33.47	5.17	75	11.33	33.48	4.64	25.56	243	0.23
76	11.26	33.48	4.55	100	10.31	33.62	3.98	25.84	217	0.29
96	10.44	33.62	4.04	150	9.44	33.92	2.66	26.22	180	0.39
111	10.01	33.62	3.77	200	9.00	34.17	1.84	26.49	155	0.48
125	9.80	33.78	3.26	250	8.51	34.21	1.52	26.60	145	0.56
149	9.44	33.92	2.69	300	8.00	34.26	1.21	26.72	133	0.63
178	9.26	34.13	2.20	400	7.06	34.32	0.59	26.89	117	0.76
216	8.87	34.18	1.70	500	6.31	34.35	0.40	27.02	105	0.87
268	8.32	34.23	1.44	600	(5.69)	(34.35)	0.34	(27.10)	(97)	(0.98)
349	7.47	34.29	0.84							
456	6.65	34.34	0.46							
594	5.69	34.35	0.34							

PAOLINA-T; November 3, 1957; 1750 GCT; 31°14.5'N, 119°27'W; sounding, 2100 fm; wind, 320°, force 3; weather, partly cloudy; sea, very rough; wire angle, 10°.

97.60

0	19.08	33.77	5.61	0	19.08	33.77	5.61	24.08	384	0.00
10	19.08	33.75	5.58	10	19.08	33.75	5.58	24.06	386	0.04
30	19.07	33.75	5.68	20	19.07	33.75	5.63	24.06	386	0.08
54	16.23	33.58	6.63	30	19.07	33.75	5.68	24.06	386	0.12
64	13.36	33.52	6.77	50	18.50	33.71	5.92	24.17	375	0.19
73	11.26	33.49	4.70	75	11.12	33.49	4.60	25.60	239	0.27
83	10.64	33.52	4.24	100	10.10	33.66	3.86	25.91	210	0.33
97	10.11	33.66	3.86	150	9.14	33.82	3.19	26.19	183	0.43
112	9.84	33.68	3.66	200	8.56	34.03	2.62	26.45	159	0.51
131	9.43	33.78	3.37	250	7.70	34.05	2.41	26.60	145	0.59
150	9.14	33.82	3.19	300	7.26	34.15	1.52	26.74	131	0.66
172	8.91	33.95	2.74	400	6.31	34.27	0.76	26.96	111	0.79
194	8.64	34.02	2.64	500	5.80	34.34	0.46	27.08	99	0.90
240	7.82	34.04	2.52							
314	7.14	34.19	1.36							
405	6.25	34.27	0.74							
529	5.73	34.36	0.42							

a) Possible evaporation; value falls on property curve.

SIO

CCOFI
5710

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

97.70

PAOLINA-T; November 3, 1957; 1245 GCT; 30°53.5'N, 119°43'W; sounding, 1980 fm; wind, 300°, force 5; weather, cloudy; sea, very rough; wire angle, 10°.

0	18.92	33.77	5.28	0	18.92	33.77	5.28	24.12	380	0.00
10	18.92	33.75	5.42	10	18.92	33.75	5.42	24.11	381	0.04
30	18.94	33.76	3.91	20	18.93	33.76	4.64	24.11	381	0.08
59	15.46	33.41	5.24	30	18.94	33.76	3.91	24.11	381	0.11
69	13.88	33.40	5.58	50	18.41	33.70	4.14	24.20	373	0.19
79	12.47	33.40	5.85	75	13.02	33.40	5.77	25.17	281	0.27
93	11.86	33.40	5.95	100	11.38	33.41	5.81	25.49	250	0.34
108	10.62	33.44	5.33	150	9.40	33.75	4.48	26.09	193	0.45
122	9.96	33.59	5.07	200	8.40	34.01	2.90	26.46	158	0.54
141	9.62	33.71	4.71	250	7.96	34.14	2.28	26.63	142	0.62
159	9.09	33.78	4.24	300	7.42	34.18	1.57	26.74	132	0.69
187	8.65	33.92	3.38	400	6.58	34.25	0.89	26.91	115	0.81
210	8.28	34.04	2.73	500	5.99	34.33	0.58	27.06	102	0.93
261	7.89	34.16	2.19	600	(5.53)	(34.39)		(27.15)	(93)	(1.03)
340	7.00	34.20	1.13							
444	6.30	34.29	0.78							
580	5.60	34.38	0.32							

97.80

PAOLINA-T; November 3, 1957; 0437, 0510 GCT; 30°35'N, 120°28'W; sounding, 2000 fm; wind, 300°, force 4; weather, cloudy; sea, very rough; wire angle, 10°, 14°.

0	19.84	33.85	5.71	0	19.84	33.85	5.71	23.95	397	0.00
10	19.85	33.86	5.49	10	19.85	33.86	5.49	23.95	397	0.04
29	19.84	33.86	5.71	20	19.84	33.86	5.61	23.95	397	0.08
58	19.50	33.80	5.63	30	19.83	33.86	5.71	23.96	396	0.12
68	17.34	33.68	6.33	50	19.63	33.82	5.67	23.98	394	0.20
77	16.34	33.66	5.94	75	16.41	33.66	5.99	24.65	331	0.29
92	16.12	33.75	5.67	100	15.59	33.72	5.72	24.88	308	0.37
106	14.64	33.65	5.83	150	11.00	33.48	5.60	25.61	239	0.51
120	13.66	33.64	5.76	200	9.03	33.79	3.51	26.19	184	0.61
139	11.92	33.55	5.69	250	8.24	33.99	3.09	26.47	157	0.70
157	10.60	33.45	5.56	300	7.50	34.08	2.18	26.64	141	0.78
185	9.58	33.68 ^{a)}	4.43	400	6.61	34.18	1.13	26.85	121	0.92
				500	5.92	34.25	0.63	26.99	107	1.04
197	9.14	33.77	3.54							
246	8.28	33.99	3.14							
323	7.20	34.11	1.75							
425	6.42	34.20	0.99							
559	5.50	34.28	0.44							

97.90

PAOLINA-T; November 2, 1957; 2341 GCT; 30°18'N, 121°06'W; sounding, 2100 fm; wind, 290°, force 4; weather, cloudy; sea, high; wire angle, 11°.

0	20.00	33.83	5.58	0	20.00	33.83	5.58	23.89	403	0.00
10	19.96	33.84 ^{b)}	5.52	10	19.96	33.84	5.52	23.90	401	0.04
21	19.98	33.84 ^{b)}	5.48	20	19.97	33.84	5.48	23.90	401	0.08
40	19.99	33.84	5.65	30	19.98	33.84	5.53	23.90	401	0.12
69	15.92	33.50	6.40	50	19.96	33.84	5.66	23.90	401	0.20
79	15.49	33.58	6.11	75	15.66	33.53	6.24	24.71	324	0.29
88	14.86	33.57	6.28	100	13.58	33.53	6.37	25.16	281	0.37
102	13.46	33.53	6.37	150	10.99	33.60	4.81	25.71	229	0.50
116	12.56	33.44	5.88	200	9.41	33.69	4.03	26.05	197	0.61
129	12.16	33.58	6.51	250	8.40	33.96	2.93	26.42	162	0.70
148	11.09	33.59	4.86	300	7.60	34.09	2.06	26.64	141	0.78
166	10.24	33.68	4.50	400	6.63	34.18	1.20	26.85	121	0.92
193	9.58	33.68 ^{b)}	4.15	500	5.90	34.25	0.61	27.00	107	1.04
267	8.08	34.05 ^{b)}	2.55	600	(5.41)	(34.29)		(27.08)	(99)	(1.15)
345	7.12	34.13	1.62							
450	6.24	34.22	0.88							
584	5.47	34.28	0.41							

a) Possible evaporation; value falls on property curve.

b) Broken bottle cap; value falls on property curve.

OBSERVED				INTERPOLATED				COMPUTED			SIO	
Z m	T °C	S %	O ₂ ml/L	Z m	T °C	S %	O ₂ ml/L	σ _t g/L	δ _T 10 ⁻⁵ cm ³ /g	ΔD dyn. m	CCOFI 5710	
PAOLINA-T; November 5, 1957; 0200 GCT; 31°40.5'N, 116°46.5'W; sounding, 240 fm; wind, calm; weather, rain showers; sea, moderate; wire angle, 00°.												100.30
0	18.37	33.58	5.91	0	18.37	33.58	5.91	24.11	381	0.00		
10	17.92	33.58	5.97	10	17.92	33.58	5.97	24.22	371	0.04		
30	15.98	33.54	5.76	20	17.05	33.56	5.92	24.42	352	0.07		
50	14.27	33.58	5.12	30	15.98	33.54	5.76	24.65	330	0.11		
75	13.76	33.59	4.74	50	14.27	33.58	5.12	25.05	292	0.17		
99	13.21	33.66 ^{a)}	4.44	75	13.76	33.59	4.74	25.17	280	0.24		
123	12.84	33.66 ^{a)}	4.06	100	13.20	33.66	4.44	25.34	265	0.31		
162	10.66	33.93	2.46	150	11.20	33.85	2.78	25.86	215	0.44		
199	9.98	34.09	2.15	200	9.97	34.10	2.14	26.28	175	0.54		
248	9.26	34.22	1.57	250	9.26	34.22	1.56	26.49	155	0.62		
296	8.84	34.29	1.33	300	8.84	34.29	1.33	26.62	143	0.70		
398	7.82	34.34	0.81	400	(7.81)	(34.34)	(0.79)	(26.81)	(125)	(0.84)		
PAOLINA-T; November 5, 1957; 0842 GCT; 31°21'N, 117°27'W; sounding, 1100 fm; wind, 280°, force 3; weather, partly cloudy; sea, slight; wire angle, 05°.												100.40
0	18.74	33.71 ^{b)}	5.72	0	18.74	33.71	5.72	24.12	380	0.00		
10	18.78	33.68	5.62	10	18.78	33.68	5.62	24.09	383	0.04		
30	18.36	33.67	5.70	20	18.73	33.67	5.64	24.10	382	0.08		
40	14.96	33.46	6.45	30	18.36	33.67	5.70	24.18	374	0.11		
50	13.86	33.44 ^{b)}	6.20	50	13.86	33.44	6.20	25.03	293	0.18		
60	12.92	33.46 ^{b)}	5.74	75	11.76	33.48	4.99	25.48	251	0.25		
70	12.00	33.46	5.24	100	11.12	33.55	4.45	25.65	235	0.31		
85	11.42	33.52	4.70	150	9.90	33.98	2.78	26.19	183	0.42		
99	11.14	33.54	4.47	200	8.98	34.12	2.20	26.46	158	0.50		
113	10.77	33.71	3.84	250	8.40	34.21	1.77	26.62	143	0.58		
136	10.12	33.88	3.15	300	8.13	34.26	1.27	26.70	135	0.65		
164	9.73	34.04	2.48	400	7.15	34.33	0.66	26.89	117	0.78		
197	9.08	34.12	2.20	500	6.36	34.36	0.41	27.02	105	0.89		
244	8.65	34.22	1.77									
321	7.85	34.25	1.26									
417	7.02	34.34	0.58									
545	5.96	34.36	0.36									
PAOLINA-T; November 5, 1957; 1454 GCT; 31°02.5'N, 118°08'W; sounding, 880 fm; wind, 280°, force 3; weather, cloudy; sea, moderate; wire angle, 03°.												100.50
0	18.94	33.72	5.70	0	18.94	33.72	5.70	24.08	384	0.00		
9	18.94	33.72	5.42	10	18.94	33.72	5.44	24.08	384	0.04		
30	18.94	33.70	5.70	20	18.94	33.71	5.54	24.07	385	0.08		
40	18.92	33.71	5.63	30	18.94	33.70	5.70	24.06	386	0.12		
50	16.20	33.51	6.22	50	16.20	33.51	6.22	24.58	337	0.19		
60	14.29	33.36	6.56	75	12.38	33.37	5.98	25.27	271	0.26		
71	12.90	33.37	6.22	100	10.24	33.44	5.12	25.71	229	0.33		
85	11.02	33.40	5.20	150	9.30	33.82	3.35	26.17	186	0.43		
100	10.24	33.44	5.12	200	8.60	33.98	2.77	26.41	163	0.52		
112	9.74	33.58	4.52	250	7.80	34.12	1.91	26.64	141	0.60		
137	9.46	33.75	3.79	300	7.38	34.20	1.43	26.76	130	0.67		
165	9.10	33.90	3.01	400	6.87	34.32	0.68	26.92	114	0.79		
199	8.61	33.98	2.79	500	6.36	34.38	0.58	27.04	103	0.91		
245	7.84	34.11	1.97									
322	7.24	34.22	1.26									
418	6.80	34.34	0.58									
545	6.00	34.40	0.58									

a) The use of this value results in an unusual density structure but nevertheless value was accepted in drawing the property curve.

b) Possible evaporation; value falls on property curve.

SIO

CCOFI
5710

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

100.60

PAOLINA-T; November 5, 1957; 2108 GCT; 30°44'N, 118°48.5'W; sounding, 1560 fm; wind, 280°, force 2; weather, cloudy; sea, moderate; wire angle, 07°.

0	19.06	33.64	5.71	0	19.06	33.64	5.71	23.99	393	0.00
10	19.07	33.65	5.71	10	19.07	33.65	5.71	23.99	393	0.04
30	19.04	33.64	5.63	20	19.05	33.64	5.67	23.99	393	0.08
40	18.98	33.65	5.67	30	19.04	33.64	5.63	24.00	392	0.12
50	16.92	33.48	6.21	50	16.92	33.48	6.21	24.39	355	0.19
59	14.75	33.41	6.42	75	13.01	33.36	6.11	25.14	283	0.27
68	13.68	33.37	6.34	100	10.86	33.41	5.26	25.59	241	0.34
83	12.21	33.36	5.78	150	9.26	33.71	3.80	26.09	194	0.45
97	11.06	33.40	5.34	200	8.67	33.97	3.07	26.38	165	0.54
111	10.19	33.48	4.67	250	7.96	34.06	2.34	26.56	149	0.62
135	9.52	33.58	4.26	300	7.43	34.14	1.69	26.70	135	0.69
163	9.06	33.80	3.38	400	6.50	34.20	0.95	26.87	119	0.83
196	8.74	33.95	3.13	500	5.75	34.28	0.53	27.04	103	0.94
243	8.02	34.04	2.40							
318	7.27	34.16	1.46							
414	6.39	34.20	0.82							
541	5.58	34.31	0.44							

100.70

PAOLINA-T; November 6, 1957; 0321 GCT; 30°23'N, 119°28.5'W; sounding, 2000 fm; wind, 020°, force 1; weather, overcast; sea, moderate; wire angle, 14°.

0	19.18	33.64	5.51	0	19.18	33.64	5.51	23.96	396	0.00
11	19.20	33.64	5.46	10	19.20	33.64	5.47	23.96	396	0.04
30	19.22	33.66	5.50	20	19.21	33.65	5.48	23.96	396	0.08
54	17.48	33.48	5.94	30	19.22	33.66	5.50	23.96	396	0.12
64	15.53	33.46	6.07	50	18.86	33.63	5.66	24.03	389	0.20
73	14.68	33.46	6.28	75	14.62	33.46	6.26	24.89	307	0.28
82	14.20	33.48	6.18	100	12.84	33.51	5.77	25.29	269	0.36
96	13.20	33.53	5.82	150	9.69	33.51	4.70	25.86	214	0.48
109	12.04	33.44	5.66	200	8.66	33.89	3.06	26.32	171	0.58
128	10.52	33.44	5.32	250	8.10	34.02	2.42	26.52	153	0.66
147	9.76	33.50	4.79	300	7.50	34.07	2.08	26.64	141	0.74
169	9.21	33.66	4.01	400	6.34	34.16	1.13	26.87	119	0.87
192	8.77	33.86	3.19	500	5.88	34.27	0.58	27.01	106	0.99
238	8.20	34.00	2.50							
313	7.36	34.09	1.96							
406	6.26	34.17	1.02							
532	5.81	34.29	0.51							

100.80

PAOLINA-T; November 6, 1957; 0918 GCT; 30°02'N, 120°07.5'W; sounding, 1940 fm; wind, 300°, force 3; weather, overcast; sea, rough; wire angle, 06°.

0	18.40r	33.84	5.20	0	(19.40)	33.84	5.20	(24.06)	(386)	(0.00)
10	19.62	33.85	5.03	10	19.62	33.85	5.03	24.00	392	0.04
30	19.62	33.84	5.04	20	19.62	33.85	5.04	24.00	392	0.08
60	19.58	33.84	5.11	30	19.62	33.84	5.04	24.00	392	0.12
69	16.78	33.68	a) 5.82	50	19.60	33.84	5.08	24.00	392	0.19
79	16.23	33.68	a) 5.74	75	16.46	33.68	5.78	24.64	331	0.28
93	15.63	33.70	5.67	100	15.23	33.70	5.64	24.94	303	0.37
108	14.72	33.69	5.61	150	11.11	33.49	5.03	25.60	239	0.50
122	13.49	33.64	5.47	200	9.05	33.78	3.11	26.18	185	0.61
141	11.51	33.46	5.21	250	8.28	33.99	2.55	26.46	158	0.70
159	10.66	33.55	4.76	300	7.53	34.08	1.67	26.64	141	0.78
188	9.36	33.68	3.35	400	6.47	34.20	0.83	26.88	118	0.91
211	8.91	33.86	3.02	500	5.98	34.27	0.49	27.00	107	1.03
263	8.07	34.02	2.35	600	(5.15)	(34.35)		(27.16)	(91)	(1.13)
344	6.94	34.13	1.23							
450	6.25	34.23	0.61							
588	5.29	34.34	0.30							

a) Possible evaporation; value falls on property curve.

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

SIO

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5710

PAOLINA-T; November 6, 1957; 1515 GCT; 29°40.5'N, 120°40.5'W; sounding, 2050 fm; wind, 340°, force 3; weather, overcast; sea, rough; wire angle, 05°.

100.90

0	19.76	33.80	5.70	0	19.76	33.80	5.70	23.93	399	0.00
10	19.75	33.79	5.70	10	19.75	33.79	5.70	23.93	399	0.04
30	19.76	33.80	5.61	20	19.75	33.79	5.66	23.93	399	0.08
60	19.74	33.78	5.69	30	19.76	33.80	5.61	23.93	399	0.12
70	18.12	33.66	6.26 ^{a)}	50	19.76	33.79	5.67	23.93	399	0.20
79	17.10	33.66	5.32u	75	17.52	33.66	6.30	24.39	355	0.29
94	15.49	33.55	6.32 ^{b)}	100	15.12	33.56	6.31	24.85	311	0.38
108	14.60	33.58	6.29 ^{b)}	150	11.18	33.47	5.63	25.57	242	0.52
122	13.33	33.55	6.07	200	9.03	33.80	4.00	26.19	184	0.63
141	11.66	33.49	5.70	250	8.32	33.98	3.10	26.45	159	0.71
160	10.64	33.44	5.56	300	7.65	34.07	2.61	26.62	143	0.79
189	9.30	33.74	4.53	400	6.57	34.19	1.35	26.87	119	0.93
212	8.81	33.85	3.41	500	6.00	34.27	0.75	27.00	107	1.05
265	8.16	34.02 ^{c)}	2.98	600	(5.39)	(34.34)	(0.54)	(27.13)	(94)	(1.16)
347	7.00	34.12 ^{c)}	1.98							
452	6.23	34.24	0.86							
590	5.44	34.33	0.58							

PAOLINA-T; November 8, 1957; 0140 GCT; 30°55'N, 116°45'W; sounding, 980 fm; wind, 300°, force 5; weather, partly cloudy; sea, moderate; wire angle, 13°.

103.35

0	18.60	33.64	5.61	0	18.60	33.64	5.61	24.10	382	0.00
10	18.59	33.66	5.37	10	18.59	33.66	5.37	24.12	380	0.04
29	17.90	33.62	5.55	20	18.55	33.66	5.36	24.13	379	0.08
44	15.86	33.57	5.60	30	17.80	33.61	5.57	24.28	365	0.11
53	14.46	33.51	5.37	50	14.76	33.51	5.43	24.90	306	0.18
63	14.28	33.55	4.39	75	13.89	33.65	3.77	25.18	279	0.25
72	14.08	33.64	3.77	100	11.51	33.56	3.86	25.59	241	0.32
91	12.74	33.66	3.89	150	9.99	33.91	2.75	26.12	190	0.43
104	11.15	33.54	3.84	200	9.49	34.07	1.94	26.34	170	0.52
119	10.48	33.68	3.39	250	8.67	34.19	1.64	26.56	149	0.60
142	10.08	33.83	2.97	300	7.81	34.18	1.46	26.69	137	0.68
170	9.81	33.99	2.27	400	6.65	34.19	0.81	26.85	121	0.81
208	9.39	34.09	1.86	500	6.13	34.27	0.47	26.98	109	0.93
260	8.50	34.20	1.60	600	(5.59)	(34.33)		(27.10)	(97)	(1.04)
341	7.08	34.16	1.29							
442	6.44	34.22	0.65							
583	5.70	34.32	0.28							

PAOLINA-T; November 7, 1957; 2200 GCT; 30°45'N, 117°06'W; sounding, 1040 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 12°.

103.40

0	19.01	33.69	5.38	0	19.01	33.69	5.38	24.04	388	0.00
10	18.98	33.68	5.41	10	18.98	33.68	5.41	24.04	388	0.04
29	18.91	33.69	5.41	20	18.94	33.69	5.41	24.05	387	0.08
44	18.46	33.64	5.42	30	18.91	33.69	5.41	24.07	385	0.12
53	15.52	33.48	5.90	50	16.69	33.53	5.73	24.47	347	0.19
63	14.24	33.48	5.61	75	13.52	33.49	5.26	25.13	284	0.27
73	13.68	33.48	5.35	100	11.39	33.61	4.10	25.64	235	0.34
91	11.90	33.57	4.42	150	9.90	33.91	2.75	26.14	188	0.44
105	11.19	33.63	3.97	200	8.59	34.05	2.28	26.46	158	0.53
119	10.48	33.69	3.44	250	7.98	34.17	1.63	26.66	139	0.60
141	10.06	33.83	2.99	300	7.43	34.20	1.34	26.74	131	0.68
168	9.60	34.02	2.34	400	6.78	34.30	0.72	26.92	114	0.80
205	8.42	34.05	2.28	500	6.27	34.34	0.41	27.02	105	0.92
255	7.96	34.18	1.63							
335	7.04	34.21	1.12							
434	6.67	34.33	0.51							
576	5.65	34.34	0.31							

a) Mean value between 6.23 and 6.30.

b) Mean value between 6.30 and 6.28.

c) Loose bottle cap; value falls on property curve.

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

10350

PAOLINA-T; November 7, 1957; 1607 GCT; 30°29'N, 117°45'W; sounding, 1480 fm; wind, 330°, force 4; weather, partly cloudy; sea, moderate; wire angle, 04°.

0	18.72	33.66	5.58	0	18.72	33.66	5.58	24.08	384	0.00
10	18.73	33.62	5.22	10	18.73	33.62	5.22	24.06	386	0.04
30	18.72	33.63	5.40	20	18.73	33.63	5.51	24.06	386	0.08
55	13.86	33.41	6.14	30	18.72	33.63	5.40	24.06	386	0.12
65	13.02	33.43	5.52	50	17.19	33.57	5.84	24.39	355	0.19
74	12.59	33.60	4.54	75	12.52	33.60	4.52	25.42	257	0.27
84	11.60	33.52	4.46	100	10.55	33.50	4.44	25.71	229	0.33
98	10.58	33.48	4.46	150	9.44	33.86	3.10	26.18	185	0.43
112	10.51	33.55	3.61	200	9.30	34.17	1.61	26.45	159	0.52
131	9.83	33.74	3.10	250	8.61	34.29	1.21	26.65	140	0.60
150	9.44	33.86	3.10	300	8.14	34.33	1.06	26.75	131	0.67
174	9.56	34.10	2.05	400	7.00	34.34	0.70	26.92	114	0.80
198	9.36	34.17	1.65	500	6.20	34.34	0.35	27.04	103	0.91
245	8.66	34.28	1.21							
323	7.98	34.34	0.02r							
421	6.78	34.34	0.64							
548	5.90	34.35	0.22							

10360

PAOLINA-T; November 7, 1957; 1053 GCT; 30°08.5'N, 118°26'W; sounding, 1630 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 07°.

0	19.20	33.69	5.35	0	19.20	33.69	5.35	23.99	393	0.00
10	19.20	33.69	5.42	10	19.20	33.69	5.42	23.99	393	0.04
30	19.20	33.67	5.36	20	19.20	33.68	5.40	23.99	393	0.08
55	16.60	33.47	5.99	30	19.20	33.67	5.36	23.98	394	0.12
65	15.88	33.48	6.06	50	18.82	33.62	5.60	24.03	389	0.20
75	15.27	33.52	6.10	75	15.27	33.52	6.10	24.79	317	0.28
84	14.62	33.49	6.00	100	13.55	33.43	5.84	25.09	288	0.36
98	13.69	33.44	5.87	150	10.04	33.48	4.69	25.78	222	0.49
112	12.33	33.40	5.74	200	8.82	33.83	3.00	26.25	178	0.59
131	11.06	33.40	5.17	250	7.98	34.01	2.63	26.52	152	0.68
150	10.04	33.48	4.69	300	7.30	34.05	1.88	26.66	140	0.75
174	9.46	33.71	3.71	400	6.38	34.13	0.82	26.84	122	0.89
197	8.84	33.83	3.01	500	5.74	34.24	0.46	27.01	106	1.01
244	8.01	34.00	2.68							
319	7.07	34.07	1.56							
416	6.28	34.14	0.74							
542	5.58	34.27	0.36							

10370

PAOLINA-T; November 7, 1957; 0445 GCT; 29°47'N, 119°04.5'W; sounding, 1880 fm; wind, 340°, force 4; weather, partly cloudy; sea, moderate; wire angle, 07°.

0	19.58	33.75	5.40	0	19.58	33.75	5.40	23.94	398	0.00
11	19.59	33.73	5.40	10	19.59	33.73	5.40	23.93	399	0.04
31	19.58	33.75 ^{a)}	5.30	20	19.58	33.74	5.35	23.93	399	0.08
56	19.55	33.73	5.36	30	19.58	33.75	5.30	23.94	398	0.12
66	16.70	33.56	5.95	50	19.57	33.74	5.35	23.94	398	0.20
76	15.59	33.49	5.96	75	15.60	33.49	5.97	24.70	325	0.29
85	15.26	33.44 ^{a)}	6.03	100	14.28	33.48	5.98	24.98	299	0.37
100	14.28	33.48 ^{a)}	5.98	150	10.79	33.42	4.78	25.60	239	0.51
115	13.31	33.44	5.85	200	9.33	33.80	3.46	26.15	188	0.61
134	11.54	33.40	5.22	250	8.41	34.03	2.90	26.47	157	0.70
152	10.71	33.42	4.74	300	7.69	34.11	2.14	26.64	141	0.78
175	9.76	33.57	4.30	400	6.53	34.15	1.26	26.84	122	0.92
198	9.38	33.77	3.54	500	5.80	34.22	0.76	26.99	108	1.04
246	8.48	34.02	2.94							
323	7.38	34.13	1.80							
418	6.36	34.16	1.18							
545	5.55	34.25	0.58							

a) Possible evaporation; value falls on property curve.

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

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PAOLINA-T; November 6, 1957; 2243 GCT; 29°27'N, 119°44'W; sounding, 1940 fm; wind, 340°, force 2; weather, partly cloudy; sea, rough; wire angle, 07°.

0	19.74	33.81	5.25	0	19.74	33.81	5.25	23.94	398	0.00
10	19.72	33.78	5.30	10	19.72	33.78	5.30	23.93	399	0.04
30	19.70	33.77	5.30	20	19.71	33.77	5.30	23.93	399	0.08
55	19.70	33.78	5.30	30	19.70	33.77	5.30	23.93	399	0.12
65	18.97	33.73	5.68	50	19.70	33.77	5.30	23.94	398	0.20
74	17.06	33.68	6.04	75	16.99	33.68	6.03	24.53	342	0.29
83	16.02	33.68	5.96	100	14.57	33.58	5.82	24.99	298	0.37
97	14.76	33.58	5.86	150	11.00	33.53	4.80	25.65	235	0.51
111	13.97	33.60	5.64	200	9.31	33.81	3.44	26.16	187	0.61
129	12.56	33.64	5.24	250	8.50	34.00	2.95	26.43	161	0.70
148	11.10	33.53	4.88	300	7.72	34.07	2.94	26.60	144	0.78
171	10.03	33.61	4.16	400	6.59	34.16	1.20	26.84	122	0.92
194	9.44	33.77	3.54	500	5.86	34.22	0.59	26.98	109	1.04
241	8.63	33.98	2.97							
316	7.47	34.08	2.94							
412	6.48	34.16	1.02							
540	5.66	34.24	0.48							

103.80

STRANGER; October 4, 1957; 1845 GCT; 30°20'N, 116°23'W; sounding, 750 fm; wind, 350°, force 3; weather, partly cloudy; sea, rough; wire angle, 06°.

0	19.94	33.68	5.39	0	19.94	33.68	5.39	23.79	411	0.00
10	19.89	33.68	5.38	10	19.89	33.68	5.38	23.81	410	0.04
29	19.27	33.66	5.50	20	19.65	33.66	5.41	23.86	405	0.08

107.35

STRANGER; October 4, 1957; 2207, 2239 GCT; 30°10'N, 116°43'W; sounding, 1550 fm; wind, 340°, force 5; weather, partly cloudy; sea, very rough; wire angle, 12°, 20°.

0	20.21	33.64	5.44	0	20.21	33.64	5.44	23.69	421	0.00
9	20.18	33.66	5.35	10	20.15	33.65	5.35	23.73	418	0.04
28	19.94	33.64	4.89r	20	20.05	33.65	5.36	23.74	417	0.08
38	19.86	33.66	5.40	30	19.92	33.64	5.38	23.77	414	0.12
48	18.54	33.60	5.61	50	18.28	33.59	5.67	24.14	379	0.20
57	17.19	33.53	5.87	75	14.40	33.42	6.16	24.91	305	0.29
66	15.44	33.46	6.12	100	12.69	33.50	5.16	25.32	266	0.36
79	14.02	33.41	6.16	150	10.33	33.82	3.11	26.00	202	0.48
93	13.05	33.49	5.30	200	9.64	34.13	2.03	26.35	168	0.57
106	12.34	33.52	5.03	250	8.57	34.17	2.00	26.56	149	0.65
				300	7.58	34.15	1.78	26.69	136	0.73
128	10.78	33.69	3.62	400	6.68	34.23	0.86	26.89	118	0.86
156	10.22	33.86	2.98	500	6.28	34.36	0.46	27.03	103	0.98
187	9.95	34.09	2.07							
232	8.92	34.18	2.02							
305	7.42	34.15	1.74							
398	6.66	34.23	0.90							
521	6.28	34.36	0.40							

107.40

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

107.50

STRANGER; October 5, 1957; 0355 GCT; 29°50'N, 117°24'W; sounding, 1700 fm; wind, 300°, force 5; weather, clear; sea, very rough; wire angle, 13°.

0	20.34	33.77	5.31	0	20.34	33.77	5.31	23.76	415	0.00
10	20.34	33.77	5.29	10	20.34	33.77	5.29	23.76	415	0.04
29	20.31	33.77	5.30	20	20.31	33.77	5.30	23.76	415	0.08
44	18.48	33.62	5.69	30	20.23	33.77	5.34	23.78	413	0.12
53	16.61	33.47	5.76	50	17.41	33.53	5.72	24.31	363	0.20
61	15.68	33.46	6.12	75	13.30	33.41	5.93	25.12	285	0.28
71	13.70	33.40	6.02	100	11.20	33.47	5.00	25.57	243	0.35
103	11.11	33.47	4.94	150	10.23	33.77	3.39	25.97	204	0.47
117	11.00	33.48 ^{a)}	4.78	200	9.63	34.22	1.86	26.43	161	0.56
140	10.44	33.67 ^{a)}	3.96	250	9.12	34.34	1.37	26.60	145	0.64
167	9.95	34.02	2.53	300	8.08	34.25	1.43	26.70	135	0.71
204	9.60	34.24 ^{a)}	1.80	400	6.63	34.21	1.12	26.87	119	0.84
255	9.11	34.34	1.35	500	6.32	34.26	0.68	26.95	111	0.96
335	7.15	34.16	1.54							
434	6.57	34.22 ^{a)}	0.83							
575	5.86	34.34 ^{a)}	0.31							

107.60

STRANGER; October 5, 1957; 0905, 0928 GCT; 29°30'N, 118°02'W; sounding, 1850 fm; wind, 320°, force 5; weather, partly cloudy; sea, very rough; wire angle, 15°, 15°.

0	20.66	33.82	5.21	0	20.66	33.82	5.21	23.71	419	0.00
9	20.68	33.81	5.16	10	20.68	33.81	5.18	23.70	421	0.04
28	20.66	33.81	5.21	20	20.67	33.81	5.20	23.71	420	0.08
				30	20.63	33.81	5.25	23.71	419	0.13
43	20.34	33.77	5.31	50	18.68	33.62	5.64	24.06	386	0.21
52	17.55	33.53 ^{a)}	5.81	75	13.72	33.39	6.08	25.02	295	0.29
61	15.57	33.40 ^{a)}	6.08	100	12.13	33.53	4.91	25.44	255	0.36
70	14.02	33.37	6.20	150	10.26	33.89	2.76	26.06	196	0.48
88	13.00	33.46	5.67	200	9.76	34.21	1.90	26.40	164	0.57
101	12.07	33.53 ^{a)}	4.84	250	9.58	34.33	1.14	26.53	151	0.65
115	11.30	33.55 ^{a)}	4.71	300	9.01	34.39	0.83	26.66	139	0.72
137	10.50	33.78	3.10	400	7.83	34.42	0.24	26.86	120	0.86
164	10.05	34.00	2.50	500	6.80	34.42	0.30	27.02	105	0.98
202	9.74	34.22	1.82							
251	9.58	34.34	1.13							
328	8.66	34.40	0.67							
426	7.55	34.42	0.17							
564	6.32	34.42	0.45							

107.70

STRANGER; October 5, 1957; 1404, 1420 GCT; 29°10.5'N, 118°43'W; sounding, 1550 fm; wind, 320°, force 5; weather, cloudy; sea, very rough; wire angle, 06°, 10°.

0	20.25	33.75	5.29	0	20.25	33.75	5.29	23.77	414	0.00
10	20.22	33.73	5.31	10	20.22	33.73	5.31	23.76	415	0.04
29	20.24	33.71	5.30	20	20.24	33.72	5.30	23.74	417	0.08
				30	20.22	33.71	5.31	23.74	417	0.12
43	20.00	33.68	5.36	50	17.90	33.49	5.77	24.16	377	0.20
52	17.52	33.46	5.83	75	14.32	33.36	6.13	24.88	308	0.29
62	15.74	33.43	6.07	100	12.39	33.35	5.62	25.26	273	0.36
71	14.53	33.36	6.19	150	10.23	33.67	4.17	25.89	212	0.48
90	13.37	33.41	5.80	200	8.74	33.94	3.17	26.35	169	0.58
104	12.08	33.33	5.59	250	7.93	34.03	2.59	26.55	149	0.66
117	10.90	33.56	5.04	300	7.50	34.09	1.93	26.66	140	0.74
140	10.48	33.62	4.55	400	6.78	34.21	0.88	26.85	121	0.87
168	9.75	33.80	3.35	500	6.18	34.29	0.47	27.00	107	0.99
204	8.62	33.95	3.13							
255	7.88	34.04	2.54							
333	7.16	34.16	1.52							
432	6.56	34.23	0.66							
574	5.96	34.34	0.34							

a) Possible evaporation; value falls on property curve.

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

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STRANGER; October 5, 1957; 1906 GCT; 28°51'N, 119°22'W; sounding, 2000 fm; wind, 340°, force 5; weather, cloudy; sea, rough; wire angle, 07°.

0	20.62	33.78	5.25	0	20.62	33.78	5.25	23.69	422	0.00
10	20.62	33.77	5.30	10	20.62	33.77	5.30	23.69	422	0.04
29	20.59	33.77	5.30	20	20.61	33.77	5.30	23.68	422	0.08
44	20.54	33.77	5.25	30	20.59	33.77	5.30	23.70	421	0.13
53	18.46	33.64	5.80	50	20.17	33.75	5.38	23.79	412	0.21
63	17.04	33.58	5.94	75	16.38	33.55	6.00	24.58	337	0.30
73	16.44	33.55	6.00	100	15.12	33.64	5.88	24.92	304	0.39
92	15.42	33.64	5.94	150	11.51	33.55	5.15	25.57	242	0.52
106	14.84	33.64	5.84	200	9.62	33.73	3.80	26.05	197	0.64
121	13.66	33.60	5.62	250	8.50	33.94	2.89	26.39	165	0.73
144	11.97	33.55	5.22	300	7.70	34.01	2.48	26.56	148	0.81
172	10.28	33.60	5.00	400	6.58	34.12	1.56	26.81	125	0.95
208	9.41	33.80	3.44	500	5.71	34.20	0.88	26.98	109	1.08
258	8.34	33.96	2.82							
338	7.18	34.05	2.24							
436	6.22	34.16	1.26							
573	5.20	34.23	0.51							

STRANGER; October 7, 1957; 0105 GCT; 29°46'N, 116°00'W; sounding, 610 fm; wind, 340°, force 6; weather, cloudy; sea, very rough; wire angle, 17°.

0	19.86	33.66	5.04	0	19.86	33.66	5.04	23.80	411	0.00
9	19.88	33.66	4.90	10	19.88	33.66	4.92	23.80	411	0.04
28	17.94	33.64	5.01	20	18.75	33.65	5.01	24.07	385	0.08
43	17.70	33.64	4.76	30	17.90	33.64	5.00	24.28	366	0.12
51	16.92	33.70	4.24	50	17.10	33.68	4.30	24.50	345	0.19
60	15.85	33.79	4.68	75	13.31	33.59	4.35	25.26	272	0.27
69	14.26	33.68	4.29	100	12.34	33.59	4.44	25.46	253	0.34
88	12.48	33.52	-	150	10.29	33.91	2.77	26.07	195	0.45
101	12.32	33.59	4.45	200	9.72	34.16	1.93	26.37	167	0.54
115	11.24	33.62	3.93	250	10.12	34.39	1.96	26.48	156	0.62
136	10.54	33.78	3.22	300	9.40	34.40	1.27	26.61	144	0.70
164	10.16	34.02	2.42	400	7.76	34.33	0.70	26.81	125	0.84
201	9.72	34.16	1.86	500	6.63	34.33	0.49	26.97	110	0.96
252	10.14	34.40	1.96							
330	8.87	34.39	0.93							
429	7.33	34.31	0.68							
566	6.18	34.36	0.38							

STRANGER; October 6, 1957; 2157 GCT; 29°36'N, 116°19.5'W; sounding, 1310 fm; wind, 320°, force 5; weather, partly cloudy; sea, very rough; wire angle, 12°.

0	19.78	33.66	5.37	0	19.78	33.66	5.37	23.82	409	0.00
10	19.76	33.68	5.35	10	19.76	33.68	5.35	23.84	407	0.04
29	17.07	33.49	5.95	20	18.88	33.60	5.58	24.01	391	0.08
43	14.74	33.51	6.01	30	16.85	33.49	5.97	24.41	353	0.12
53	13.65	33.49	5.71	50	14.00	33.49	5.84	25.04	293	0.18
63	13.26	33.50	5.50	75	12.22	33.50	4.84	25.40	259	0.25
72	12.36	33.49	4.94	100	11.19	33.63	4.09	25.69	231	0.31
91	11.67	33.57	4.36	150	9.87	33.88	2.91	26.12	191	0.42
105	10.82	33.66	3.96	200	9.23	34.10	2.27	26.40	164	0.51
119	10.32	33.69	3.72	250	8.84	34.23	1.43	26.57	148	0.59
142	10.00	33.84	3.11	300	8.65	34.35	0.87	26.68	137	0.66
169	9.58	33.98	2.60	400	7.51	34.37	0.49	26.87	119	0.80
206	9.18	34.13	2.18	500	6.50	34.35	0.39	27.00	107	0.92
256	8.83	34.26	1.35							
334	8.24	34.38	0.62							
432	7.16	34.36	0.47							
571	5.88	34.34	0.33							

SIO CCOFI 5710	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S %	O ₂ ml/L	Z m	T °C	S %	O ₂ ml/L	σ _t g/L	δ _T 10 ⁻⁵ cm ³ /g	ΔD dyn. m

IIO.50	STRANGER; October 6, 1957; 1606 GCT; 29°10.5'N, 117°00.5'W; sounding, 1885 fm; wind, 350°, force 4; weather, partly cloudy; sea, rough; wire angle, 10°.									
0	20.85	33.86	5.22	0	20.85	33.86	5.22	23.69	422	0.00
10	20.85	33.84	5.24	10	20.85	33.84	5.24	23.67	423	0.04
29	20.84	33.83	5.30	20	20.85	33.83	5.29	23.67	423	0.08
43	20.78	33.83	5.19	30	20.84	33.83	5.25	23.67	423	0.13
53	16.99	33.51	6.05	50	18.68	33.64	5.74	24.07	384	0.21
63	15.52 ^{a)}	33.49	6.09	75	13.98	33.48	5.73	25.04	293	0.29
72	14.27	33.48	5.85	100	11.79	33.54	4.62	25.52	247	0.36
92	12.38	33.51	4.88	150	10.14	33.95	2.70	26.13	189	0.47
106	11.34	33.57	4.45	200	9.90	34.23	1.60	26.38	165	0.56
120	10.62	33.62	4.09	250	9.25	34.33	1.16	26.58	147	0.64
144	10.16	33.89	2.86	300	8.70	34.37	0.82	26.70	135	0.72
172	10.14	34.10 ^{b)}	1.94	400	7.59	34.39	0.49	26.87	119	0.85
208	9.84	34.25	1.56	500	6.58	34.37	0.39	27.00	107	0.97
259	9.12	34.34	1.05							
340	8.33	34.40	0.60							
438	7.15	34.37	0.46							
577	6.00	34.38	0.32							

IIO.60	STRANGER; October 6, 1957; 1050 GCT; 28°54'N, 117°39'W; sounding, 2050 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 25°.									
0	20.43	33.75	4.94	0	20.43	33.75	4.94	23.71	419	0.00
8	20.42	33.75	5.16	10	20.42	33.75	4.35	23.71	419	0.04
26	20.40	33.73	4.28	20	20.40	33.73	4.28	23.71	420	0.08
40	19.63	33.60	4.91	30	20.32	33.71	4.30	23.71	419	0.13
48	18.24	33.53	5.24	50	18.08	33.53	5.28	24.15	378	0.20
57	17.40 ^{c)}	33.56	5.40	75	14.42	33.43	5.44	24.91	305	0.29
65	16.04	33.49	5.44	100	11.42	33.40	5.03	25.47	252	0.36
82	13.36	33.41	5.46	150	10.13	33.90	2.49	26.09	193	0.48
95	11.83	33.39	5.35	200	9.48	34.13	1.87	26.39	165	0.57
106	11.02	33.42	4.65	250	9.29	34.33	1.43	26.57	148	0.65
127	10.78	33.64	3.12	300	8.71	34.35	0.95	26.68	137	0.72
151	10.10	33.91	2.46	400	7.90	34.43	0.43	26.87	119	0.86
185	9.78	34.11	1.81	500	6.99	34.42	0.29	26.98	108	0.98
230	8.90	34.17	2.02							
303	8.68	34.36	0.95							
397	7.93	34.43	0.45							
532	6.62	34.41	0.29							

IIO.70	STRANGER; October 6, 1957; 0530 GCT; 28°36'N, 118°18'W; sounding, 2100 fm; wind, 350°, force 4; weather, cloudy; sea, very rough; wire angle, 10°.									
0	20.74	33.79	5.38	0	20.74	33.79	5.38	23.67	424	0.00
10	20.74	33.82	5.77	10	20.74	33.82	5.77	23.69	422	0.04
29	20.75	33.81	5.09	20	20.74	33.81	5.45	23.68	422	0.08
43	20.75	33.84	5.03	30	20.75	33.81	5.06	23.68	422	0.13
53	18.84	33.55	5.56	50	19.98	33.71	5.25	23.81	410	0.21
62	16.62	33.47	5.60	75	15.22	33.46	5.83	24.76	320	0.30
71	15.54	33.46	5.81	100	13.71	33.51	5.76	25.12	285	0.38
89	14.29	33.48	5.81	150	11.03	33.59	4.84	25.69	231	0.51
104	13.58	33.51	5.76	200	9.21	33.91	3.62	26.25	178	0.61
117	12.46	33.49	5.02	250	8.32	34.01	2.67	26.47	157	0.70
140	11.60	33.55	4.94	300	7.58	34.09	2.06	26.64	141	0.78
166	10.06	33.64	4.66	400	6.70	34.22	0.95	26.87	119	0.91
203	9.16	33.93	3.52	500	6.15	34.30	0.50	27.01	106	1.03
254	8.22	34.02	2.63							
332	7.14	34.13	1.71							
430	6.59	34.25	0.73							
568	5.79	34.33	0.33							

a) Alternate value of 16.25° rejected.

b) Possible evaporation; value falls on property curve.

c) Alternate value of 17.94° rejected.

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

STRANGER; October 6, 1957; 0004 GCT; 28°15'N, 118°57'W; sounding, 2150 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 06°.

0	20.74	33.78	5.25	0	20.74	33.78	5.25	23.66	425	0.00
10	20.77	33.73	5.38	10	20.77	33.73	5.38	23.61	429	0.04
29	20.72	33.78	5.27	20	20.73	33.75	5.32	23.63	427	0.08
39	20.70	33.80	5.35	30	20.71	33.78	5.32	23.67	423	0.13
49	18.40	33.53	5.76	50	18.32	33.53	5.73	24.08	384	0.21
58	17.78	33.57	5.38	75	16.44	33.57	6.13	24.56	339	0.30
68	16.92	33.58	5.88	100	14.21	33.41	5.95	24.94	302	0.38
82	15.98	33.55	6.32	150	10.45	33.46	4.69	25.69	231	0.52
96	14.49	33.42	6.02	200	8.95	33.85	3.73	26.24	179	0.62
110	13.34	33.42	5.79	250	8.13	34.01	3.42	26.50	154	0.70
133	11.40	33.40	5.21	300	7.50	34.09	2.68	26.65	140	0.78
161	9.85	33.51	4.32	400	7.01	34.30	0.85	26.89	117	0.92
193	9.09	33.79	3.80	500	6.36	34.34	0.40	27.01	106	1.03
240	8.22	33.99	3.56							
316	7.30	34.11	2.36							
411	7.00	34.31	0.74							
535	5.99	34.34	0.30							

STRANGER; October 7, 1957; 0749 GCT; 29°22.5'N, 115°18'W; sounding, 27 fm; wind, 330°, force 5; weather, partly cloudy; sea, very rough; wire angle, 00°.

0	17.81	33.71	5.36	0	17.81	33.71	5.36	24.35	359	0.00
10	17.80	33.72	4.35u	10	17.80	33.72	5.37	24.36	357	0.04
30	15.28	33.57	5.89	20	16.95	33.67	5.57	24.52	343	0.07
49	13.60	33.68	4.25	30	15.28	33.57	5.89	24.83	313	0.10

STRANGER; October 7, 1957; 1041 GCT; 29°12'N, 115°39'W; sounding, 800 fm; wind, 330°, force 4; weather, cloudy; sea, rough; wire angle, 10°.

0	20.28	33.77	5.19	0	20.28	33.77	5.19	23.77	414	0.00
10	20.30	33.78	5.04	10	20.30	33.78	5.04	23.78	413	0.04
29	17.98	33.56	5.11	20	20.22	33.77	5.04	23.79	412	0.08
43	16.42	33.53	4.87	30	17.77	33.55	5.10	24.24	369	0.12
53	16.00	33.50	4.65	50	16.15	33.51	4.72	24.59	336	0.19
63	15.01	33.49	4.55	75	13.90	33.47	4.27	25.04	293	0.27
72	14.26	33.46	4.32	100	11.98	33.53	4.18	25.48	251	0.34
91	12.38	33.55	4.23	150	10.19	34.01	3.13	26.16	186	0.45
105	11.78	33.52	4.15	200	10.01	34.30	1.56	26.43	161	0.54
119	10.50	33.61	4.04	250	9.70	34.38	1.08	26.54	151	0.62
143	10.20	33.89	3.35	300	9.16	34.39	1.03	26.64	141	0.69
171	10.10	34.19	2.49	400	7.94	34.39	0.88	26.83	123	0.83
207	10.00	34.33	1.56	500	6.68	34.37	0.89	26.99	107	0.95
259	9.59	34.38	1.05							
338	8.82	34.40	1.01							
438	7.32	34.38	0.82							
578	6.06	34.36	1.03							

SIO

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5710

II0.80

II3.35

SIO
CCOFI
5710

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

II340

STRANGER; October 7, 1957; 1347 GCT; 29°02'N, 115°59'W; sounding, 1000 fm; wind, 320°, force 5; weather, cloudy; sea, rough; wire angle, 03°.

0	19.16	33.63	5.40	0	19.16	33.63	5.40	23.96	395	0.00
10	19.16	33.62	5.32	10	19.16	33.62	5.32	23.96	396	0.04
29	19.02	33.59	5.31	20	19.09	33.61	5.32	23.96	396	0.08
43	16.49	33.48	5.96	30	18.97	33.59	5.32	23.97	395	0.12
53	15.11	33.46	5.89	50	15.52	33.47	5.92	24.70	325	0.19
63	13.87	33.43	5.66	75	13.20	33.46	5.15	25.18	279	0.27
73	13.35	33.45	5.25	100	11.78	33.63	3.78	25.61	239	0.33
92	12.05	33.53	4.64	150	9.78	33.89	3.00	26.15	188	0.44
106	11.56	33.83	3.09	200	9.48	34.21	1.98	26.45	159	0.53
120	10.75	33.68	3.54	250	9.28	34.33	1.16	26.57	148	0.61
143	9.88	33.82	3.31	300	8.81	34.33	0.86	26.65	140	0.68
170	9.71	34.02	2.45	400	7.52	34.34	0.67	26.85	121	0.82
209	9.42	-	1.81	500	6.52	34.37	0.48	27.01	106	0.94
260	9.22	34.33	1.09							
339	8.31	34.33	0.74							
439	7.05	34.35	0.65							
578	6.08	34.38	0.39							

II350

STRANGER; October 7, 1957; 1854 GCT; 28°41.5'N, 116°38'W; sounding, 1890 fm; wind, 330°, force 4; weather, cloudy; sea, very rough; wire angle, 12°.

0	21.16	33.89	5.15	0	21.16	33.89	5.15	23.63	427	0.00
10	21.15	33.89	5.19	10	21.15	33.89	5.19	23.63	427	0.04
29	21.13	33.88	5.24	20	21.14	33.88	5.17	23.63	427	0.08
43	21.12	33.89	5.27	30	21.12	33.88	5.24	23.63	427	0.13
53	18.52	33.60	5.86	50	21.08	33.89	5.31	23.66	425	0.22
62	16.50	33.53	6.04	75	14.98	33.49	6.02	24.83	313	0.30
71	15.39	33.49	6.06	100	12.23	33.54	5.17	25.43	256	0.38
90	13.16	33.53	5.55	150	9.79	33.76	3.97	26.05	197	0.49
104	11.89	33.54	5.09	200	9.16	34.11	2.46	26.43	161	0.58
117	10.64	33.53	5.03	250	8.90	34.27	1.45	26.58	146	0.66
140	10.10	33.71	4.25	300	8.41	34.31	1.12	26.69	136	0.74
167	9.62	33.88	3.46	400	7.50	34.40	0.52	26.90	117	0.87
201	9.15	34.12	2.45	500	6.83	34.42	0.36	27.01	106	0.98
253	8.86	34.29	1.42							
332	8.03	34.33	0.99							
430	7.29	34.42	0.47							
568	6.36	34.42	0.32							

II360

STRANGER; October 8, 1957; 0001 GCT; 28°21'N, 117°17'W; sounding, 1940 fm; wind, 320°, force 4; weather, partly cloudy; sea, rough; wire angle, 05°.

0	21.18	33.90	5.20	0	21.18	33.90	5.20	23.63	427	0.00
10	21.18	33.87	5.16	10	21.18	33.87	5.16	23.61	429	0.04
29	21.06	33.89	5.25	20	21.10	33.89	5.23	23.63	427	0.08
38	21.02	33.89	5.26	30	21.06	33.89	5.26	23.66	425	0.13
48	18.86	33.64	-	50	18.50	33.64	5.88	24.13	380	0.21
57	17.42	33.66	6.06	75	15.41	33.59	5.98	24.82	315	0.30
67	15.93	33.58	5.99	100	13.05	33.51	5.58	25.25	273	0.37
80	15.12	33.60	5.98	150	10.25	33.71	4.14	25.92	209	0.49
94	13.54	33.55 ^{a)}	5.71	200	9.21	34.00	2.83	26.32	171	0.59
108	12.50	33.47	5.40	250	8.83	34.20	1.80	26.54	151	0.67
131	11.17	33.56	4.86	300	8.41	34.29	1.27	26.68	137	0.75
159	9.98	33.77	3.82	400	7.73	34.41	0.40	26.88	118	0.88
191	9.32	33.95	3.09	500	6.93	34.43	0.29	27.00	107	1.00
238	8.94	34.18	1.94							
314	8.30	34.31	1.10							
409	7.69	34.42	0.36							
535	6.63	34.43	0.29							

a) Broken bottle cap; value falls on property curve.

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

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5710

STRANGER; October 8, 1957; 0456 GCT; 28°02'N, 117°56'W; sounding, 2000 fm; wind, 320°, force 1; weather, partly cloudy; sea, rough; wire angle, 05°. 11370

0	21.28	33.91	5.74	0	21.28	33.91	5.74	23.61	429	0.00
10	21.28	33.87	5.55	10	21.28	33.87	5.55	23.58	432	0.04
30	21.15	33.87	5.46	20	21.24	33.87	5.47	23.59	431	0.08
39	20.60	33.83	5.75	30	21.15	33.87	5.46	23.61	429	0.13
49	18.31	33.75	6.08	50	18.17	33.75	6.13	24.28	365	0.21
58	16.86	33.68	6.67	75	15.02	33.62	6.14	24.92	305	0.29
68	15.92	33.68	6.31	100	13.63	33.64	5.97	25.23	275	0.37
82	14.23	33.55	6.05	150	11.04	33.78	3.92	25.84	217	0.49
96	13.80	33.64	6.04	200	10.39	34.23	1.96	26.31	173	0.59
111	12.93	33.62	5.49	250	10.07	34.36	1.22	26.46	158	0.68
134	11.76	33.68	4.31	300	9.36	34.35	1.04	26.57	147	0.76
162	10.69	33.84	3.72	400	8.35	34.41	0.66	26.79	127	0.90
194	10.40	34.18	2.04	500	7.33	34.41	0.23	26.94	113	1.02
241	10.18	34.36	1.28							
316	9.12	34.34	1.00							
409	8.24	34.42	0.64							
533	6.95	34.40	0.06							

STRANGER; October 8, 1957; 0959 GCT; 27°41'N, 118°34'W; sounding, 2100 fm; wind, 340°, force 2; weather, partly cloudy; sea, moderate; wire angle, 00°. 11380

0	21.60	33.91	5.24	0	21.60	33.91	5.24	23.53	437	0.00
10	21.60	33.89	5.20	10	21.60	33.89	5.20	23.51	439	0.04
30	21.62	33.88	5.18	20	21.61	33.89	5.20	23.50	440	0.09
40	21.62	33.89	5.18	30	21.62	33.88	5.18	23.49	440	0.13
49	21.62	33.92	5.20	50	21.59	33.92	5.22	23.53	437	0.22
58	20.00	33.75	5.64	75	14.72	33.51	6.23	24.91	305	0.31
68	16.07	33.55	6.35	100	11.75	33.61	4.12	25.58	242	0.38
83	13.22	33.49	5.98	150	9.73	33.91	3.10	26.17	186	0.49
95	12.06	33.57	4.54	200	9.16	34.15	2.14	26.45	159	0.58
110	11.27	33.68	3.66	250	8.16	34.23	1.81	26.67	138	0.65
132	10.28	33.86	3.12	300	7.92	34.29	1.03	26.75	131	0.72
161	9.49	33.93	3.09	400	7.52	34.37	0.46	26.87	120	0.85
192	9.30	34.13	2.22	500	6.68	34.40	0.28	27.01	106	0.97
238	8.31	34.28 ^{a)}	1.93							
313	7.84	34.30	1.00							
408	7.50	34.38	0.45							
533	6.26	34.40	0.23							

STRANGER; October 10, 1957; 0702 GCT; 28°56'N, 114°41'W; sounding, 40 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°. 11726

0	19.85	33.77	5.44	0	19.85	33.77	5.44	23.88	403	0.00
20	19.51	33.76	5.04	10	19.70	33.77	5.18	23.92	399	0.04
39	14.92	33.62	5.45	20	19.51	33.76	5.04	23.97	395	0.08
58	14.82	33.81	4.21	30	17.90	33.71	5.18	24.33	360	0.12
				50	14.82	33.76	4.41	25.08	289	0.18

STRANGER; October 10, 1957; 0449 GCT; 28°48'N, 114°56'W; sounding, 55 fm; wind, 350°, force 3; weather, partly cloudy; sea, moderate; wire angle, 03°. 11730

0	19.41	33.72	5.26	0	19.41	33.72	5.26	23.96	395	0.00
10	19.38	33.75	5.23	10	19.38	33.75	5.23	23.99	393	0.04
30	18.62	33.71	5.31	20	19.06	33.73	5.27	24.06	386	0.08
50	14.54	33.62	5.05	30	18.62	33.71	5.31	24.15	377	0.12
74	13.80	33.90	2.54	50	14.54	33.62	5.05	25.05	294	0.18
				75	(13.78)	(33.91)	(2.39)	(25.40)	(259)	(0.25)

a) Loose bottle cap; value does not fall on property curve.

SIO CCOFI 5710	OBSERVED				INTERPOLATED				COMPUTED		
	Z m	T °C	S %	O ₂ ml/L	Z m	T °C	S %	O ₂ ml/L	σ _t g/L	δT 10 ⁻⁵ cm ³ /g	ΔD dyn.m

II7.35 STRANGER; October 10, 1957; 0153 GCT; 28°38'N, 115°16'W; sounding, 120 fm; wind, 320°, force 4; weather, cloudy; sea, moderate; wire angle, 00°.

0	20.34	33.90	5.46	0	20.34	33.90	5.46	23.86	405	0.00
9	20.36	33.90	5.43	10	20.36	33.90	5.44	23.86	405	0.04
30	18.44	33.86	5.75	20	20.10	33.90	5.47	23.91	400	0.08
49	15.80	33.68	5.38	30	18.44	33.86	5.75	24.31	363	0.12
73	13.76	33.73	4.29	50	15.70	33.68	5.34	24.82	314	0.19
98	12.36	33.84	3.23	75	13.60	33.74	4.22	25.31	267	0.26
123	12.48	34.09 ^{a)}	1.61	100	12.36	33.85	3.20	25.65	235	0.32
152	11.31	34.19	1.49	150	11.43	34.19	1.49	26.08	194	0.43

II7.40 STRANGER; October 9, 1957; 1237 GCT; 28°28'N, 115°35.5'W; sounding, 530 fm; wind, 290°, force 1; weather, partly cloudy; sea, moderate; wire angle, 08°.

0	20.06	33.82	5.41	0	20.06	33.82	5.41	23.87	404	0.00
10	19.99	33.82	5.45	10	19.99	33.82	5.45	23.88	403	0.04
29	17.48	33.77	5.68	20	19.15	33.80	5.62	24.09	383	0.08
38	16.17	33.76	5.12	30	17.39	33.77	5.65	24.50	344	0.12
48	14.90	33.75	4.76	50	14.77	33.76	4.68	25.09	288	0.18
58	13.89	33.88	3.43	75	12.68	33.95	2.69	25.66	234	0.24
68	13.24	34.01	2.50	100	12.00	34.03	2.38	25.86	215	0.30
81	12.26	33.89	2.85	150	11.30	34.27	1.42	26.18	185	0.40
95	12.15	33.99	2.58	200	11.16	34.52	0.71	26.39	165	0.49
109	11.74	34.08 ^{a)}	2.11	250	10.22	34.51	0.67	26.55	149	0.57
132	11.44	34.17	1.79	300	9.18	34.43	0.50	26.67	138	0.65
160	11.22	34.34	1.28	400	7.83	34.40	0.73	26.85	121	0.78
192	11.26	34.51	0.73	500	6.65	34.41	0.43	27.03	104	0.90
238	10.46	34.52	0.70							
312	8.96	34.42	0.49							
407	7.70	34.40	0.75							
531	6.26	34.42	0.27							

II7.50 STRANGER; October 9, 1957; 0640 GCT; 28°08'N, 116°15'W; sounding, 2200 fm; wind, 320°, force 1; weather, partly cloudy; sea, moderate; wire angle, 12°.

0	21.58	34.10	5.02	0	21.58	34.10	5.02	23.67	423	0.00
10	21.60	34.11	5.13	10	21.60	34.11	5.13	23.67	423	0.04
29	20.96	34.04	5.25	20	21.34	34.09	5.18	23.73	418	0.08
38	19.82	33.96	5.50	30	20.82	34.03	5.28	23.83	409	0.13
48	17.64	33.86	5.75	50	17.40	33.85	5.65	24.56	339	0.20
58	16.52	33.81	4.97	75	14.27	33.69	4.76	25.14	283	0.28
67	14.93	33.70	5.24	100	11.90	33.81	3.35	25.71	229	0.34
81	13.66	33.69	4.13	150	10.88	34.22	1.68	26.21	182	0.45
95	12.29	33.76	3.68	200	10.48	34.45	0.87	26.46	158	0.53
109	11.24	33.93	2.54	250	10.15	34.51	0.62	26.57	148	0.61
132	10.60	34.02	2.09	300	9.50	34.49	0.57	26.66	139	0.68
158	10.96	34.26	1.45	400	8.10	34.42	0.42	26.83	123	0.82
188	10.58	34.42	1.01	500	6.95	34.40	0.17	26.98	109	0.94
233	10.36	34.51	0.68							
306	9.42	34.49	0.57							
399	8.15	34.42	0.43							
522	6.76	34.40	0.11							

a) Broken bottle cap; value falls on property curve.

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

STRANGER; October 9, 1957; 0134 GCT; 27°47.5'N, 116°53'W; sounding, 2050 fm; wind, calm; weather, clear; sea, rough; wire angle, 03°.

0	21.44	33.86	5.35	0	21.44	33.86	5.35	23.53	437	0.00
10	20.92	-	5.29	10	20.92	33.83	5.29	23.64	426	0.04
30	20.86	33.82	5.34	20	20.88	33.83	5.32	23.65	425	0.08
39	20.84	33.82	5.33	30	20.86	33.82	5.34	23.66	425	0.13
48	18.52	33.61	6.00	50	18.20	33.60	6.03	24.17	376	0.21
58	16.46	33.58	6.09	75	14.80	33.54	6.00	24.92	305	0.29
67	15.48	33.53	6.10	100	12.52	33.48	5.36	25.33	265	0.37
81	14.14	33.55	5.89	150	10.52	33.71	3.66	25.88	213	0.49
94	12.86	33.47	5.46	200	10.29	34.19	1.95	26.28	175	0.59
108	12.13	33.50	5.26	250	9.91	34.39	1.10	26.52	153	0.67
131	10.75	33.59	4.60	300	8.98	34.33	1.12	26.63	142	0.75
158	10.44	33.79	2.99	400	8.23	34.40	0.60	26.79	127	0.89
191	10.36	-	2.18	500	7.43	34.43	0.34	26.93	114	1.01
237	10.12	34.40	1.09							
313	8.78	34.33	1.12							
406	8.20	34.40	0.59							
532	7.18	34.43	0.29							

STRANGER; October 8, 1957; 2038 GCT; 27°27.5'N, 117°33'W; sounding, 2090 fm; wind, 330°, force 2; weather, partly cloudy; sea, very rough; wire angle, 03°.

0	21.43	33.86	5.31	0	21.43	33.86	5.31	23.53	437	0.00
10	21.24	33.84	5.28	10	21.24	33.84	5.28	23.57	433	0.04
30	21.22	33.82	5.31	20	21.23	33.83	5.31	23.56	434	0.09
40	19.47	33.68	5.80	30	21.22	33.82	5.31	23.56	434	0.13
50	17.48	33.61	6.10	50	17.48	33.61	6.10	24.35	358	0.21
59	16.25	33.58	6.18	75	14.05	33.51	5.73	25.05	292	0.29
68	15.06	33.51	6.14	100	11.37	33.65	3.80	25.69	231	0.36
83	12.54	33.53	4.87	150	10.72	34.18	1.52	26.21	181	0.46
98	11.46	33.64	3.94	200	10.82	34.43	0.75	26.39	165	0.55
112	10.88	33.74	3.26	250	10.89	34.54	0.48	26.46	158	0.63
135	10.64	34.09	1.71	300	10.48	34.54	0.48	26.53	151	0.71
162	10.82	34.31	1.03	400	9.21	34.49	0.41	26.70	135	0.86
194	10.82	34.42	0.79	500	7.95	34.44	0.36	26.87	119	0.99
240	10.88	34.52	0.61							
314	10.28	34.52	0.48							
408	9.10	34.49	0.41							
533	7.50	34.42	0.36							

STRANGER; October 8, 1957; 1513 GCT; 27°07'N, 118°16'W; sounding, 2200 fm; wind, 330°, force 3; weather, cloudy; sea, rough; wire angle, 03°.

0	22.04	33.97	5.22	0	22.04	33.97	5.22	23.44	445	0.00
10	22.02	33.96	5.15	10	22.02	33.96	5.15	23.44	445	0.04
30	22.02	33.99	5.14	20	22.02	33.97	5.15	23.45	444	0.09
39	22.02	33.98 ^{a)}	5.19	30	22.02	33.99	5.14	23.46	443	0.13
49	18.71	33.71	6.06	50	17.80	33.66	6.20	24.32	361	0.21
58	14.38	33.56	6.46	75	12.26	33.61	4.73	25.48	251	0.29
68	12.92	33.58	5.54	100	10.81	33.82	2.93	25.91	210	0.35
82	11.62	33.65	3.76	150	9.55	34.04	2.46	26.30	173	0.45
96	10.98	33.79	3.04	200	8.44	34.13	2.37	26.54	151	0.53
110	10.47	33.90	2.72	250	8.88	34.35	1.01	26.64	141	0.60
133	9.90	33.98	2.68	300	8.38	34.35	0.80	26.73	133	0.68
160	9.36	34.08	2.28	400	7.41	34.39	0.39	26.90	117	0.80
193	8.41	34.09	2.58	500	6.70	34.41	0.29	27.02	105	0.92
240	8.93	34.34	1.09							
316	8.20	34.35	0.76							
413	7.33	34.39 ^{a)}	0.36							
536	6.46	34.41	0.29							

a) Possible evaporation; value falls on property curve.

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

I18.39	STRANGER; October 9, 1957; 1514 GCT; 28°18.5'N, 115°24'W; sounding, 140 fm; wind, 300°, force 2; weather, cloudy; sea, moderate; wire angle, 13°.	0	19.70	34.02 ^{a)}	5.57	0	19.70	34.02	5.57	24.12	381	0.00
		10	19.54	33.97	5.48	10	19.54	33.97	5.48	24.12	381	0.04
		28	17.60	33.93	5.10	20	18.80	33.96	5.28	24.30	363	0.08
		48	16.58	33.86	5.05	30	17.43	33.92	5.09	24.60	335	0.11
		72	15.34	33.84	4.50	50	16.43	33.85	5.02	24.79	317	0.18
		96	14.75	34.02 ^{a)}	3.50	75	15.25	33.86	4.40	25.06	291	0.25
		119	12.98	33.94	2.92	100	14.61	34.02	3.42	25.32	267	0.32
		157	11.98	34.18	1.62	150	12.10	34.13	1.83	25.91	210	0.44
		196	10.56	34.23 ^{a)}	1.34	200	(10.43)	(34.23)	(1.33)	(26.30)	(173)	(0.54)
I19.33	STRANGER; October 10, 1957; 1635 GCT; 28°19.5'N, 114°53'W; sounding, 58 fm; wind, 290°, force 4; weather, cloudy; sea, moderate; wire angle, 03°.	0	20.86	33.79	5.32	0	20.86	33.79	5.32	23.63	427	0.00
		10	20.84	33.79	5.27	10	20.84	33.79	5.27	23.63	427	0.04
		30	20.84	33.78	5.26	20	20.84	33.78	5.26	23.63	427	0.08
		49	20.65	33.77	5.31	30	20.84	33.78	5.26	23.63	427	0.13
		73	16.48	33.74	4.70	50	20.63	33.77	5.30	23.69	422	0.21
I20.25	STRANGER; October 10, 1957; 1128 GCT; 28°23'N, 114°14.5'W; sounding, 32 fm; wind, 320°, force 3; weather, cloudy; sea, slight; wire angle, 02°.	0	19.84	33.76	3.88u	0	19.84	33.76	(5.16)	23.88	403	0.00
		10	19.86	33.76	5.16	10	19.86	33.76	5.16	23.88	403	0.04
		30	18.25	33.66	4.39	20	19.25	33.72	4.78	24.01	391	0.08
		49	15.84	33.64	4.77	30	18.25	33.66	4.39	24.21	372	0.12
I20.30	STRANGER; October 10, 1957; 1359 GCT; 28°13.5'N, 114°34'W; sounding, 46 fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 04°.	0	20.96	33.80	5.24	0	20.96	33.80	5.24	23.62	428	0.00
		10	20.95	33.84	5.25	10	20.95	33.84	5.25	23.65	425	0.04
		30	20.96	33.79	5.22	20	20.95	33.81	5.23	23.63	427	0.08
		48	20.94	33.79	5.30	30	20.96	33.79	5.22	23.61	429	0.13
		73	17.92	33.72	4.94	50	20.92	33.79	5.30	23.62	428	0.21
I20.35	STRANGER; October 10, 1957; 1847 GCT; 28°03'N, 114°54'W; sounding, 43 fm; wind, 320°, force 2; weather, partly cloudy; sea, moderate; wire angle, 02°.	0	21.10	33.78	5.32	0	21.10	33.78	5.32	23.56	433	0.00
		10	21.02	33.78	5.27	10	21.02	33.78	5.27	23.58	432	0.04
		30	20.94	33.78	5.30	20	20.98	33.78	5.28	23.59	431	0.09
		49	20.33	33.76	5.30	30	20.94	33.78	5.30	23.61	430	0.13
I20.45	STRANGER; October 11, 1957; 1806 GCT; 27°43'N, 115°33'W; sounding, 1400 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.	0	21.65	34.07	5.17	0	21.65	34.07	5.17	23.63	427	0.00
		10	21.61	34.08	5.16	10	21.61	34.08	5.16	23.65	425	0.04
		30	20.65	33.98	5.40	20	21.33	34.05	5.23	23.70	420	0.08
		40	18.32	33.81	5.68	30	20.65	33.98	5.40	23.84	408	0.13
		49	15.88	33.71	5.41	50	15.72	33.71	5.37	24.83	313	0.20
		59	14.84	33.69	5.14	75	13.02	33.71	4.00	25.41	257	0.27
		68	13.83	33.69	4.45	100	11.52	33.87	2.56	25.82	218	0.33
		83	12.02	33.75	3.48	150	11.10	34.34	1.12	26.27	177	0.43
		97	11.66	33.87	2.59	200	10.03	34.41	1.23	26.49	155	0.51
		111	11.09	33.87	2.45	250	9.62	34.46	0.67	26.61	143	0.59
		134	11.26	34.21	1.46	300	8.80	34.43	0.47	26.73	133	0.66
		162	10.98	34.40	1.00	400	7.73	34.43	0.31	26.89	117	0.79
		195	10.10	34.40	1.25	500	6.79	34.43	0.23	27.02	105	0.91
		242	9.72	34.46	0.69							
		319	8.46	34.42	-							
		414	7.60	34.43	0.29							
		539	6.30	34.43	0.21							

a) Broken bottle cap; value falls on property curve.

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

STRANGER; October 11, 1957; 2116 GCT; 27°33'N, 115°52'W; sounding, 2150 fm; wind, 280°, force 3; weather, overcast; sea, moderate; wire angle, 15°.

0	21.14	34.03	5.30	0	21.14	34.03	5.30	23.74	417	0.00
10	21.02	34.04	5.30	10	21.02	34.04	5.30	23.78	413	0.04
28	18.42	33.85	5.72	20	20.98	34.04	5.41	23.79	412	0.08
37	16.28	33.77	5.85	30	17.60	33.81	5.79	24.48	347	0.12
46	16.10	33.87	4.23	50	15.88	33.91	3.85	24.95	301	0.18
55	14.64	34.02	2.80	75	12.52	34.05	2.04	25.78	223	0.25
64	13.66	34.07	2.20	100	11.71	34.13	1.76	25.99	203	0.30
77	12.36	34.05	2.03	150	10.43	34.22	1.60	26.28	175	0.40
91	11.86	34.07	1.93	200	10.52	34.45	0.79	26.45	159	0.48
104	11.62	34.15	1.66	250	9.95	34.44	0.76	26.54	150	0.56
125	11.02	34.18	1.70	300	9.27	34.46	0.67	26.68	137	0.64
151	10.41	34.22	1.59	400	8.00	34.39	0.49	26.82	124	0.77
182	10.64	34.45	0.82	500	6.82	34.37	0.36	26.97	110	0.90
226	10.14	34.43	0.78							
298	9.28	34.46	0.68							
390	8.14	34.39	0.49							
511	6.70	34.37	0.36							

STRANGER; October 12, 1957; 0217 GCT; 27°11'N, 116°30'W; sounding, 2000+ fm; wind, 220°, force 4; weather, drizzle; sea, moderate; wire angle, 09°.

0	21.86	34.11	4.70	0	21.86	34.11	4.70	23.60	430	0.00
10	21.84	34.13	4.80	10	21.84	34.13	4.80	23.62	428	0.04
29	21.12	34.00	4.91	20	21.55	34.07	4.85	23.67	424	0.08
43	19.34	33.95 ^{a)}	5.32	30	21.02	33.99	4.94	23.74	416	0.13
53	18.02	33.87	4.96	50	18.43	33.89	5.10	24.34	360	0.20
61	16.40	33.95	3.52	75	14.58	33.81	3.15	25.17	281	0.28
72	14.96	33.83	3.11	100	13.24	33.81	3.29	25.45	254	0.35
90	13.42	33.78	3.39	150	11.13	34.17	1.58	26.13	190	0.46
104	13.17	33.84	3.25	200	10.68	34.39	0.99	26.37	167	0.56
118	11.75	33.89	2.57	250	10.58	34.55	0.46	26.52	153	0.64
140	11.22	34.09	1.76	300	9.85	34.52	0.45	26.63	143	0.71
168	10.97	34.31	1.17	400	8.30	34.40	0.37	26.79	127	0.85
204	10.66	34.40	0.96	500	7.15	34.41	0.30	26.96	111	0.98
253	10.58	34.55	0.46							
330	9.36	34.49	0.45							
427	7.95	34.38	0.34							
564	6.60	34.45	0.27							

STRANGER; October 12, 1957; 0723 GCT; 26°49'N, 117°07.5'W; sounding, 2000+ fm; wind, 300°, force 4; weather, partly cloudy; sea, moderate; wire angle, 07°.

0	21.45	33.87	5.96	0	21.45	33.87	5.96	23.53	437	0.00
10	21.44	33.88	5.42	10	21.44	33.88	5.42	23.53	437	0.04
30	21.44	33.89	4.96	20	21.44	33.89	5.19	23.55	435	0.09
44	21.10	33.86	5.77	30	21.44	33.89	4.96	23.55	435	0.13
53	17.94	33.64	5.92	50	20.00	33.77	5.88	23.84	407	0.21
63	15.74	33.55	6.38	75	14.83	33.63	6.78	24.97	300	0.30
73	15.01	33.63	6.80	100	12.45	33.48	5.69	25.33	265	0.38
92	12.95	33.48	5.64	150	10.54	33.90	2.70	26.03	199	0.49
106	12.18	33.48	5.72	200	10.40	34.32	1.22	26.38	166	0.59
120	11.50	33.55	5.77	250	10.26	34.45	0.85	26.49	155	0.67
143	10.58	33.82	3.39	300	9.62	34.46	0.82	26.61	144	0.75
170	10.54	34.14	1.84	400	8.13	34.42	0.64	26.82	124	0.89
207	10.38	34.35	1.15	500	7.06	34.39	0.35	26.95	111	1.01
258	10.24	34.45	0.82							
338	8.97	34.45	0.88							
436	7.61	34.40	0.46							
577	6.47	34.39	0.25							

a) Possible evaporation; value falls on property curve.

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

12080

STRANGER; October 12, 1957; 1235 GCT; 26°27.5'N, 117°44'W; sounding, 2000+ fm; wind, 270°, force 4; weather, partly cloudy; sea, moderate; wire angle, 05°.

0	21.76	33.93	5.05	0	21.76	33.93	5.05	23.49	440	0.00
10	21.77	33.95	5.04	10	21.77	33.95	5.04	23.51	439	0.04
30	21.76	33.95	5.09	20	21.76	33.95	5.07	23.51	439	0.09
44	19.69	33.75	5.43	30	21.76	33.95	5.09	23.51	439	0.13
53	17.91	33.68	6.21	50	18.43	33.70	6.00	24.19	374	0.21
63	16.86	33.64	5.78	75	15.84	33.62	6.49	24.75	321	0.30
72	16.05	33.61	6.34	100	14.12	33.67	6.70	25.16	281	0.38
91	14.88	33.68	6.98	150	11.18	33.71	4.57	25.77	224	0.50
105	13.70	33.67 ^{a)}	6.52	200	9.82	34.08	2.71	26.28	175	0.60
119	12.76	33.71 ^{a)}	6.22	250	9.10	34.20	2.18	26.49	155	0.69
142	11.57	33.68	4.95	300	8.89	34.31	1.30	26.62	143	0.77
170	10.28	33.86	3.77	400	8.22	34.42	0.49	26.81	125	0.91
206	9.79	34.11	2.63	500	7.15	34.41	0.30	26.96	111	1.03
257	9.02	34.21	2.10							
338	8.89	34.43	0.75							
437	7.75	34.41	0.39							
577	6.46	34.42	0.20							

12090

STRANGER; October 12, 1957; 1756 GCT; 26°03'N, 118°28'W; sounding, 2200 fm; wind, 320°, force 3; weather, cloudy; sea, moderate; wire angle, 04°.

0	21.31	33.86	5.16	0	21.31	33.86	5.16	23.57	433	0.00
10	21.28	33.85	5.12	10	21.28	33.85	5.12	23.57	433	0.04
30	21.27	33.87 ^{a)}	5.07	20	21.27	33.86	5.09	23.57	433	0.09
40	21.22	33.84	5.06	30	21.27	33.87	5.07	23.59	431	0.13
49	18.08	33.53	5.57	50	17.82	33.53	5.63	24.21	372	0.21
59	16.86	33.54	5.82	75	15.75	33.57	5.80	24.73	323	0.30
68	16.10	33.52	5.81	100	14.94	33.77	5.53	25.06	291	0.38
83	15.50	33.64	5.80	150	10.93	33.65	4.42	25.77	224	0.51
97	15.02	33.77 ^{a)}	5.55	200	9.71	33.96	2.73	26.22	181	0.61
111	13.76	33.68	5.41	250	9.03	34.20	2.06	26.51	154	0.70
134	11.98	33.59	5.09	300	8.65	34.30	1.30	26.65	140	0.77
162	10.43	33.69	4.02	400	7.78	38.39	0.57	26.85	121	0.91
195	9.79	33.92	2.84	500	6.77	34.37	0.40	26.98	109	1.03
241	9.12	34.18	2.16							
315	8.57	34.33	1.20							
410	7.64	34.39	0.52							
536	6.41	34.36	0.38							

123.42

STRANGER; October 13, 1957; 2145 GCT; 27°13'N, 114°56'W; sounding, 510 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 04°.

0	22.34	34.23	5.23	0	22.34	34.23	5.23	23.56	434	0.00
10	22.32	34.22	5.12	10	22.32	34.22	5.12	23.56	434	0.04
29	22.18	34.23	5.14	20	22.25	34.23	5.13	23.58	432	0.09
39	20.82	34.08	5.39	30	22.13	34.23	5.16	23.61	429	0.13
49	17.01	33.74	5.91	50	16.98	33.74	5.90	24.57	337	0.21
58	16.04	33.71	5.80	75	14.02	33.76	4.39	25.24	274	0.28
68	14.87	33.69	5.27	100	12.78	33.86	3.12	25.57	243	0.35
82	13.44	33.82	3.66	150	11.10	34.21	1.72	26.16	187	0.46
96	12.88	33.84	3.27	200	10.62	34.42	1.09	26.41	163	0.55
110	12.55	33.98	2.80	250	10.00	34.38	0.79	26.49	155	0.63
134	11.52	34.11	2.03	300	9.30	34.41	0.75	26.63	142	0.71
161	10.84	34.27	1.55	400	7.99	34.42	0.46	26.85	121	0.84
194	10.69	34.42	1.17	500	6.90	34.40	0.42	26.98	109	0.96
242	10.12	34.38	0.81							
317	9.04	34.42	0.75							
413	7.84	34.42	0.44							
538	6.58	34.39	0.42							

a) Possible evaporation; value falls on property curve.

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

STRANGER; October 13, 1957; 1721 GCT; 26°58'N, 115°30.5'W; sounding, 1900 fm; wind, 310°, force 2; weather, partly cloudy; sea, moderate; wire angle, 03°.

0	21.22	34.05	5.29	0	21.22	34.05	5.29	23.73	418	0.00
10	21.19	34.05	5.27	10	21.19	34.05	5.27	23.74	417	0.04
30	19.48	33.75	5.60	20	20.62	33.94	5.42	23.82	409	0.08
40	17.57	33.56	5.72	30	19.48	33.75	5.60	23.97	395	0.12
49	15.74	33.48	6.07	50	15.65	33.49	6.03	24.68	327	0.20
58	15.14	33.57	5.66	75	14.44	33.91	3.55	25.27	271	0.27
68	14.15	33.60	5.12	100	14.24	34.18	2.02	25.52	247	0.34
83	14.64	34.11	2.64	150	12.30	34.24	1.52	25.96	205	0.45
98	14.36	34.18	2.07	200	10.71	34.38	1.01	26.36	167	0.55
112	13.82	34.17	1.91	250	10.08	34.48	0.73	26.56	149	0.63
135	13.06	34.22	1.61	300	9.38	34.47	0.58	26.66	139	0.70
163	11.66	34.25	1.47	400	8.22	34.45	0.38	26.83	123	0.84
195	10.80	34.36	1.05	500	6.99	34.43	0.30	27.00	107	0.96
241	10.20	34.48	0.77							
315	9.18	34.47	0.53							
410	8.13	34.45	0.37							
533	6.56	34.42	0.29							

STRANGER; October 13, 1957; 1150 GCT; 26°41'N, 116°00'W; sounding, 2100 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 05°.

0	21.15	33.92	4.41	0	21.15	33.92	4.41	23.65	425	0.00
9	21.14	33.89	5.12	10	21.13	33.89	5.10	23.63	427	0.04
29	20.94	33.92	4.36	20	21.04	33.91	4.49	23.68	423	0.08
38	18.76	33.64	4.75	30	20.86	33.91	4.36	23.73	417	0.13
48	17.38	33.81	5.60	50	17.22	33.83	5.51	24.59	336	0.20
57	16.73	33.91	4.48	75	13.62	33.57	5.17	25.19	279	0.28
67	14.36	33.60	5.77	100	11.25	33.55	4.12	25.62	237	0.35
81	13.12	33.57	4.51	150	10.08	33.94	2.21	26.13	189	0.45
94	11.72	33.53	4.64	200	9.37	34.17	2.03	26.44	160	0.54
108	10.94	33.58	3.50	250	9.03	34.29	1.14	26.58	147	0.62
131	10.44	33.81 ^{a)}	2.29	300	8.71	34.37	0.64	26.69	136	0.69
159	9.92	34.00	2.19	400	7.52	34.38	0.39	26.88	118	0.83
192	9.42	34.14	2.10	500	6.70	34.41	0.19	27.03	105	0.94
238	9.10	34.27	1.28							
313	8.61	34.38	0.59							
408	7.40	34.38	0.38							
533	6.53	34.42	0.15							

STRANGER; October 13, 1957; 0620 GCT; 26°19'N, 116°46.5'W; sounding, 2100 fm; wind, 320°, force 3; weather, cloudy; sea, rough; wire angle, 05°.

0	21.16	33.86	5.36	0	21.16	33.86	5.36	23.61	429	0.00
10	20.96	33.81	4.80	10	20.96	33.81	4.80	23.63	427	0.04
29	20.81	33.78	5.61	20	20.88	33.79	5.05	23.63	427	0.08
39	20.72	33.80	5.89	30	20.81	33.78	5.64	23.64	426	0.13
48	20.62	33.78	5.18	50	20.61	33.78	5.18	23.69	421	0.21
58	18.35	33.59	5.59	75	16.18	33.67	5.67	24.70	325	0.31
67	16.86	33.64	6.00	100	13.10	33.49	4.32	25.22	275	0.38
81	15.56	33.68	5.27	150	10.12	33.83	3.03	26.04	199	0.50
94	13.58	33.50	4.26	200	9.80	34.19	1.41	26.37	167	0.60
109	12.48	33.49	4.42	250	9.68	34.35	0.83	26.52	153	0.68
132	10.74	33.64	4.25	300	9.03	34.36	0.76	26.63	142	0.76
159	9.95	33.91	2.32	400	8.00	34.41	0.39	26.84	122	0.89
192	9.80	34.14	1.57	500	7.05	34.42	0.27	26.98	108	1.01
238	9.79	34.34	0.93							
315	8.88	34.36	0.75							
410	7.91	34.42	0.37							
536	6.60	34.42	0.26							

a) Possible evaporation; value falls on property curve.

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123.70

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

12380

STRANGER; October 13, 1957; 0053 GCT; 25°59'N, 117°25'W; sounding, 2150 fm; wind, 320°, force 3; weather, cloudy; sea, moderate; wire angle, 03°.

0	22.22	33.98	5.10	0	22.22	33.98	5.10	23.40	449	0.00
10	22.20	33.98	5.00	10	22.20	33.98	5.00	23.41	448	0.04
29	22.10	34.00	5.00	20	22.16	33.99	5.00	23.42	447	0.09
39	19.39	33.76	5.65	30	22.06	34.00	5.01	23.45	444	0.13
49	17.04	33.68	5.88	50	16.93	33.68	5.85	24.54	340	0.21
58	16.28	33.68	5.75	75	13.40	33.66	4.61	25.30	269	0.29
68	14.42	33.63	5.40	100	12.39	34.04	2.07	25.79	222	0.35
82	12.77	33.70	3.93	150	12.10	34.37	0.21	26.10	192	0.46
96	12.40	33.95	2.21	200	12.01	34.62	0.23	26.31	172	0.55
110	12.39	34.18	0.73	250	11.74	34.68	0.13	26.41	163	0.63
131	12.20	34.31	0.33	300	11.18	34.66	0.16	26.50	155	0.72
160	12.07	34.40	0.20	400	9.30	34.51	0.45	26.71	134	0.87
192	12.05	34.54	0.24	500	7.82	34.42	0.36	26.88	118	1.00
238	11.84	34.68	0.13							
313	11.04	34.65	0.17							
407	9.18	34.50	0.47							
530	7.27	34.40	0.32							

12740

STRANGER; October 14, 1957; 0755 GCT; 26°43'N, 114°29.5'W; sounding, 600 fm; wind, 310°, force 5; weather, partly cloudy; sea, rough; wire angle, 02°.

0	21.96	34.22	5.24	0	21.96	34.22	5.24	23.66	424	0.00
10	21.94	34.22	5.12	10	21.94	34.22	5.12	23.66	424	0.04
30	21.94	34.21	5.86	20	21.94	34.21	5.50	23.66	424	0.08
39	20.96	34.10	6.00	30	21.94	34.21	5.86	23.66	424	0.13
49	17.18	33.81	5.96	50	16.95	33.81	5.87	24.64	331	0.20
58	15.76	33.82	5.05	75	14.33	33.85	4.43	25.25	273	0.28
68	15.12	33.81	5.20	100	12.82	34.13	2.07	25.78	223	0.34
83	13.24	33.91	3.11	150	11.43	34.36	1.15	26.22	181	0.44
96	12.95	34.11	2.23	200	10.80	34.47	0.82	26.43	161	0.53
111	12.37	34.16	1.79	250	10.33	34.57	0.44	26.58	147	0.61
134	11.78	34.28	1.46	300	9.66	34.53	0.34	26.66	139	0.68
162	11.22	34.43	0.96	400	8.44	34.52	0.25	26.85	121	0.82
196	10.81	34.47	0.84	500	7.20	34.47	0.17	27.00	107	0.94
242	10.44	34.57	0.48							
317	9.42	34.52	0.31							
411	8.30	34.52	0.25							
536	6.74	34.44	0.15							

12750

STRANGER; October 14, 1957; 1335 GCT; 26°24'N, 115°08'W; sounding, 800 fm; wind, 340°, force 5; weather, cloudy; sea, rough; wire angle, 05°.

0	22.12	34.20	5.05	0	22.12	34.20	5.05	23.60	430	0.00
10	22.12	34.22	5.34	10	22.12	34.22	5.34	23.61	429	0.04
30	21.90	34.14	5.36	20	22.01	34.18	5.36	23.61	429	0.08
38	20.74	33.96	6.02	30	21.90	34.14	5.36	23.61	429	0.13
47	17.69	33.68	5.97	50	17.15	33.63	5.96	24.46	348	0.21
58	15.86	33.55	5.95	75	14.26	33.60	5.30	25.07	290	0.29
68	15.02	33.66	5.36	100	12.03	33.51	4.64	25.45	254	0.36
82	13.44	33.51	5.30	150	10.05	33.88	2.50	26.09	193	0.47
96	12.30	33.52	4.64	200	10.28	34.33	1.33	26.41	163	0.56
110	11.36	33.48	4.64	250	9.75	34.41	1.03	26.55	149	0.64
133	10.26	33.66	3.84	300	9.10	34.42	0.64	26.66	139	0.72
162	10.03	34.02	2.32	400	7.65	34.37	0.50	26.85	121	0.85
192	10.36	34.31	1.46	500	6.68	34.36	0.32	26.98	109	0.97
238	9.88	34.40	1.11							
313	8.96	34.42	0.57							
406	7.58	34.36	0.50							
530	6.45	34.36	0.28							

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

STRANGER; October 14, 1957; 1837 GCT; 26°03.5'N, 115°45.5'W; sounding, 2050 fm; wind, 310°, force 3; weather, drizzle; sea, rough; wire angle, 10°.

0	21.95	34.11	5.11	0	21.95	34.11	5.11	23.58	432	0.00
10	21.88	34.12	5.09	10	21.88	34.12	5.09	23.61	429	0.04
29	21.46	34.02	5.18	20	21.74	34.09	5.11	23.62	428	0.09
38	19.48	33.76	5.50	30	21.42	34.01	5.20	23.65	425	0.13
49	17.47	33.75	5.34	50	17.39	33.75	5.32	24.49	345	0.20
58	16.66	33.78	5.09	75	14.87	33.82	4.19	25.11	287	0.28
67	15.50	33.81	4.50	100	13.20	34.00	2.56	25.59	240	0.35
81	14.40	33.83	3.95	150	10.42	34.04	2.32	26.15	187	0.46
95	13.59	34.01	2.70	200	10.18	34.29	1.50	26.39	165	0.55
108	12.92	34.02	2.37	250	9.79	34.45	0.69	26.58	147	0.63
130	11.42	34.03	2.20	300	8.90	34.42	0.65	26.70	135	0.70
156	10.20	34.04	2.33	400	7.63	34.38	0.43	26.86	120	0.84
187	10.20	34.20	1.76	500	6.70	34.36	0.32	26.98	109	0.96
232	10.02	34.45	0.77							
303	8.83	34.42	0.64							
395	7.68	34.38	0.43							
518	6.53	34.36	0.32							

STRANGER; October 14, 1957; 2343 GCT; 25°43.5'N, 116°24'W; sounding, 2100 fm; wind, 310°, force 4; weather, rain showers; sea, rough; wire angle, 19°.

0	21.48	33.86	5.25	0	21.48	33.86	5.25	23.52	438	0.00
9	21.44	33.86	5.21	10	21.42	33.86	5.25	23.53	437	0.04
27	21.22	33.84	5.29	20	21.32	33.85	5.28	23.56	434	0.09
36	20.82	33.80	5.29	30	21.13	33.83	5.29	23.59	431	0.13
45	19.40	33.64	5.55	50	18.42	33.63	5.78	24.14	379	0.21
54	17.76	33.63	5.93	75	14.51	33.46	5.90	24.91	305	0.30
62	16.22	33.53	6.07	100	12.60	33.63	4.30	25.43	256	0.37
74	14.56	33.45	5.95	150	10.18	33.97	2.50	26.15	187	0.48
87	14.32	33.69	4.49	200	9.82	34.23	1.52	26.41	163	0.57
99	12.66	33.63	4.30	250	9.36	34.35	1.01	26.57	147	0.65
120	10.84	33.61	4.21	300	8.83	34.39	0.72	26.68	137	0.72
144	10.24	33.86	2.91	400	7.66	34.38	0.59	26.85	121	0.86
172	10.04	34.09	1.88	500	(6.55)	(34.39)	(0.34)	(27.02)	(105)	(0.98)
213	9.76	34.29	1.42							
282	9.02	34.39	0.79							
366	8.06	34.38	0.68							
482	6.78	34.39	0.37							

STRANGER; October 15, 1957; 0450 GCT; 25°24'N, 117°02.5'W; sounding, 2200 fm; wind, 310°, force 4; weather, drizzle; sea, moderate; wire angle, 14°.

0	22.78	34.26	4.92	0	22.78	34.26	4.92	23.45	443	0.00
9	22.76	34.26	5.54	10	22.73	34.25	5.52	23.47	442	0.04
28	21.50	33.97	5.08	20	22.45	34.19	5.37	23.50	440	0.09
38	20.85	33.87	5.69	30	21.36	33.95	5.17	23.61	429	0.13
47	18.48	33.74	5.92	50	18.00	33.71	6.00	24.31	363	0.21
57	16.98	33.65	6.18	75	14.70	33.51	6.28	24.90	306	0.29
66	15.92	33.52	6.27	100	12.55	33.67	3.45	25.47	252	0.37
80	13.84	33.51	6.29	150	10.93	34.07	2.15	26.08	194	0.48
94	12.63	33.62	4.63	200	10.92	34.48	0.82	26.41	163	0.57
107	12.50	33.78	3.27	250	10.15	34.50	0.69	26.56	149	0.65
130	10.74	33.85	2.84	300	9.00	34.38	0.84	26.66	139	0.72
157	11.04	34.16	1.88	400	7.94	34.40	0.55	26.84	122	0.86
189	11.06	34.44	0.94	500	6.92	34.39	0.32	26.97	109	0.98
235	10.49	34.52	0.69							
308	8.86	34.37	0.85							
400	7.94	34.40	0.55							
523	6.68	34.39	0.26							

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127.80

291

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5710

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

130.30

STRANGER; October 16, 1957; 1245 GCT; 26°28'N, 113°30.5'W; sounding, 42 fm; wind, 320°, force 4; weather, partly cloudy; sea, slight; wire angle, 10°.

0	22.10	34.36	4.32	0	22.10	34.36	4.32	23.73	418	0.00
9	22.09	34.34	3.76	10	22.06	34.33	3.77	23.71	419	0.04
28	20.86	34.14	4.55	20	22.02	34.33	3.78	23.72	419	0.08
43	18.56	34.13	3.49	30	20.45	34.13	4.42	24.00	392	0.12
62	17.68	34.11	2.91	50	18.10	34.12	3.19	24.60	335	0.20

130.35

STRANGER; October 16, 1957; 0948 GCT; 26°17.5'N, 113°47'W; sounding, 290 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 13°.

0	22.44	34.34	5.15	0	22.44	34.34	5.15	23.61	429	0.00
10	22.44	34.33	5.04	10	22.44	34.33	5.04	23.60	430	0.04
29	22.38	34.34	4.67	20	22.42	34.33	4.74	23.62	429	0.08
38	18.74	34.14	4.10	30	22.32	34.34	4.60	23.65	425	0.13
48	17.82	34.14	3.36	50	17.79	34.14	3.31	24.69	326	0.20
57	17.55	34.16	3.11	75	16.72	34.20	2.63	24.99	298	0.28
67	17.12	34.20	2.82	100	15.76	34.22	2.21	25.22	275	0.36
81	16.29	34.20	2.46	150	12.33	34.35	1.08	26.04	198	0.47
96	15.92	34.22 ^{a)}	2.21	200	11.38	34.56	0.61	26.39	165	0.56
109	13.90	34.10	2.45	250	10.50	34.56	0.53	26.55	150	0.64
133	12.62	34.14	1.88	300	9.81	34.56	0.37	26.66	139	0.72
160	12.22	34.56	0.81	400	7.99	34.46	0.26	26.88	119	0.85
192	11.56	34.56	0.61	500	(7.01)	(34.41)		(26.97)	(109)	(0.97)
238	10.62	34.56	0.59							
282	10.12	34.57	0.42							
380	8.26	34.48	0.29							
475	7.22	34.42	0.26							

130.40

STRANGER; October 16, 1957; 0645 GCT; 26°06.5'N, 114°05'W; sounding, 1200 fm; wind, 330°, force 5; weather, partly cloudy; sea, very rough; wire angle, 08°.

0	22.81	34.38	5.06	0	22.81	34.38	5.06	23.54	436	0.00
10	22.84	34.38	5.00	10	22.84	34.38	5.00	23.53	437	0.04
29	22.84	34.38	4.95	20	22.84	34.38	4.98	23.53	437	0.09
38	22.82	34.36	4.92	30	22.82	34.37	4.93	23.53	437	0.13
48	20.80	34.04	5.39	50	19.45	33.88	5.64	24.07	385	0.21
57	17.22	33.68	5.90	75	14.77	33.70	4.83	25.04	293	0.30
67	15.46	33.64	5.38	100	12.84	33.80	3.23	25.52	247	0.37
81	14.30	33.76	4.46	150	12.50	34.52	0.69	26.13	189	0.48
95	13.10	33.78	3.47	200	11.38	34.61	0.48	26.43	161	0.56
109	12.44	33.89	2.78	250	10.28	34.56	0.46	26.58	146	0.64
131	13.20	34.49	0.72	300	9.64	34.53	0.35	26.66	139	0.72
160	12.17	34.52	0.69	400	8.21	34.47	0.28	26.85	121	0.85
192	11.58	34.61	0.48	500	6.99	34.43	0.22	27.00	107	0.98
238	10.46	34.57	0.48							
313	9.51	34.52	0.35							
408	8.10	34.46	0.28							
531	6.68	34.42	0.22							

a) Possible evaporation; value falls on property curve.

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

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STRANGER; October 16, 1957; 0140 GCT; 25°45'N, 114°39.5'W; sounding, 1800 fm; wind, 330°, force 4; weather, partly cloudy; sea, rough; wire angle, 07°.

0	22.63	34.25	5.15	0	22.63	34.25	5.15	23.49	441	0.00
10	22.62	34.25	5.11	10	22.62	34.25	5.11	23.49	441	0.04
30	22.60	34.25	5.20	20	22.61	34.25	5.15	23.49	440	0.09
40	22.38	34.23	5.06	30	22.60	34.25	5.20	23.50	440	0.13
48	21.96	34.18	5.17	50	21.89	34.17	5.19	23.64	426	0.22
57	20.90	34.06	5.33	75	16.00	33.91	4.78	24.93	303	0.31
68	17.38	33.91	5.48	100	13.09	33.81	3.73	25.47	252	0.38
82	15.04	33.91	4.10	150	11.75	34.31	1.16	26.13	189	0.49
97	13.20	33.79	3.86	200	11.53	34.59	0.51	26.38	166	0.58
111	12.84	34.02	2.56	250	10.40	34.52	0.74	26.53	151	0.66
134	11.76	34.14	1.80	300	9.91	34.56	0.46	26.64	141	0.74
162	11.74	34.47	0.84	400	8.43	34.50	0.26	26.83	123	0.88
195	11.61	34.59	0.50	500	7.25	34.47	0.24	26.98	108	1.00
241	10.51	34.52	0.79							
316	9.78	34.57	0.35							
412	8.26	34.49	0.26							
535	6.90	34.46	0.24							

13050

STRANGER; October 15, 1957; 2036 GCT; 25°24'N, 115°20'W; sounding, 1970 fm; wind, 330°, force 3; weather, partly cloudy; sea, rough; wire angle, 07°.

0	23.41	34.32	5.08	0	23.41	34.32	5.08	23.31	457	0.00
10	23.26	34.31	5.02	10	23.26	34.31	5.02	23.36	453	0.04
29	23.23	34.32	5.04	20	23.23	34.31	5.04	23.36	453	0.09
38	23.19	34.32	5.04	30	23.22	34.32	5.04	23.37	452	0.14
48	23.18	34.31	5.02	50	23.10	34.29	5.03	23.40	449	0.23
57	18.06	33.73	5.94	75	14.90	33.60	5.25	24.93	303	0.32
66	16.94	33.69	5.85	100	13.06	33.77	3.73	25.45	254	0.39
80	14.68	33.66	5.21	150	11.18	34.11	1.83	26.07	195	0.50
94	13.52	33.73	4.20	200	9.90	34.26	1.62	26.41	163	0.59
108	12.24	33.84	2.82	250	9.23	34.34	1.20	26.58	147	0.67
133	11.56	34.04	2.08	300	8.65	34.37	0.74	26.70	135	0.75
161	10.90	34.15	1.73	400	7.54	34.40	0.46	26.89	117	0.88
188	10.14	34.23	1.69	500	6.76	34.41	0.34	27.01	106	1.00
239	9.40	34.33	1.30							
314	8.47	34.38	0.63							
408	7.48	34.40	0.46							
534	6.50	34.41	0.30							

13060

STRANGER; October 15, 1957; 1449 GCT; 25°06'N, 116°00'W; sounding, 1830 fm; wind, 350°, force 2; weather, rain; sea, moderate; wire angle, 03°.

0	23.28	34.36	5.05	0	23.28	34.36	5.05	23.39	451	0.00
10	23.26	34.36	5.04	10	23.26	34.36	5.04	23.39	450	0.04
30	23.26	34.37	5.02	20	23.26	34.37	5.03	23.39	450	0.09
45	18.82	33.85	5.84	30	23.26	34.37	5.02	23.40	449	0.14
54	16.16	33.73	5.98	50	17.05	33.75	5.96	24.57	338	0.21
63	14.34	33.69	5.44	75	12.69	33.75	3.66	25.51	248	0.29
73	12.96	33.73	3.93	100	11.67	33.93	2.42	25.83	217	0.35
91	11.89	33.86	2.73	150	10.81	34.33	1.30	26.30	173	0.44
106	11.55	34.01	2.18	200	10.77	34.54	0.61	26.49	156	0.53
120	11.39	34.21	1.66	250	10.06	34.56	0.35	26.62	143	0.60
143	10.86	34.29	1.50	300	9.37	34.53	0.31	26.72	134	0.68
170	10.80	34.47	0.97	400	8.04	34.47	0.26	26.87	119	0.81
208	10.72	34.57	0.54	500	6.86	34.44	0.26	27.02	105	0.92
257	9.98	34.56	0.34							
337	8.86	34.51	0.31							
436	7.50	34.45	0.26							
574	6.30	34.44	0.26							

13070

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

130.80

STRANGER; October 15, 1957; 0942 GCT; 24°49'N, 116°39'W; sounding, 2200 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	21.92	34.02	4.84	0	21.92	34.02	4.84	23.51	438	0.00
10	21.93	34.04	4.03	10	21.93	34.04	4.03	23.53	437	0.04
30	21.66	34.01	3.97	20	21.92	34.03	4.01	23.54	436	0.09
40	17.69	33.61	4.39	30	21.66	34.01	3.97	23.58	432	0.13
49	16.10	33.64	4.40	50	16.04	33.65	4.43	24.72	324	0.21
58	15.49	33.66	4.65	75	14.00	33.63	3.61	25.15	283	0.28
68	14.73	33.67	3.77	100	12.27	33.60		25.48	251	0.35
82	13.28	33.58	3.52	150	10.69	33.90	1.83	26.00	202	0.46
96	12.30	33.58	-	200	10.84	34.45	0.73	26.40	164	0.56
110	11.46	33.59	4.00	250	9.96	34.47	0.70	26.56	148	0.64
133	10.94	33.80	2.20	300	9.13	34.43	0.57	26.67	138	0.71
160	10.46	33.96	1.73	400	7.98	34.45	0.29	26.87	119	0.84
194	10.94	34.45	0.75	500	7.14	34.47	0.20	27.00	107	0.96
241	10.16	34.47	0.70							
316	8.88	34.42	0.54							
411	7.87	34.45	0.29							
538	6.87	34.47	0.18							

133.30

STRANGER; October 16, 1957; 2034 GCT; 25°53.5'N, 113°06.5'W; sounding, 105 fm; wind, 320°, force 3; weather, clear; sea, rough; wire angle, 03°.

0	22.68	34.42	5.17	0	22.68	34.42	5.17	23.61	429	0.00
10	22.54	34.42	5.20	10	22.54	34.42	5.20	23.65	425	0.04
30	22.11	34.33	5.23	20	22.33	34.37	5.22	23.67	423	0.08
50	18.18	34.07	4.39	30	22.11	34.33	5.23	23.70	420	0.13
73	14.88	33.93	3.92	50	18.18	34.07	4.39	24.54	341	0.20
96	14.60	34.22	2.06	75	14.83	33.93	3.77	25.21	277	0.28
120	13.92	34.40	0.98	100	14.51	34.26	1.79	25.53	246	0.35
149	13.66	34.51 ^{a)}	0.82	150	(13.65)	(34.51)	(0.82)	(25.91)	(211)	(0.46)

133.40

STRANGER; October 17, 1957; 0206 GCT; 25°33.5'N, 113°43'W; sounding, 420 fm; wind, 320°, force 4; weather, partly cloudy; sea, moderate; wire angle, 05°.

0	22.94	34.37	5.25	0	22.94	34.37	5.25	23.49	440	0.00
11	22.94	34.38	5.17	10	22.94	34.38	5.18	23.50	439	0.04
31	22.63	34.38	5.08	20	22.84	34.38	5.11	23.53	437	0.09
40	22.21	34.34	5.11	30	22.66	34.38	5.08	23.58	432	0.13
48	21.26	34.17	5.62	50	20.93	34.13	5.62	23.87	404	0.21
59	18.57	33.89	5.53	75	16.65	33.85	5.04	24.74	321	0.30
69	17.32	33.82	5.51	100	13.53	34.01	2.87	25.54	245	0.38
83	15.80	33.95	4.22	150	12.25	34.35	1.36	26.06	197	0.49
97	14.24	34.04	3.04	200	11.18	34.49	0.82	26.37	167	0.58
112	12.86	34.02	2.56	250	10.00	34.48	0.72	26.57	147	0.66
134	12.18	34.21	1.70	300	9.60	34.51	0.42	26.66	139	0.74
163	12.28	34.49	0.80	400	8.24	34.47	0.34	26.85	121	0.87
196	11.28	34.49	0.82	500	7.06	34.44	0.21	26.99	108	0.99
240	10.16	34.47	0.79							
315	9.52	34.52	0.36							
409	8.10	34.47	0.34							
532	6.78	34.43	0.19							

a) Loose bottle cap; value falls on property curve.

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

STRANGER; October 17, 1957; 0710 GCT; 25°14'N, 114°23.5'W; sounding, 2000 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 03°.

0	24.08	34.63	5.00	0	24.08	34.63	5.00	23.36	453	0.00
10	24.08	34.65	4.98	10	24.08	34.65	4.98	23.38	451	0.04
30	24.05	34.63	5.00	20	24.06	34.63	4.99	23.37	452	0.09
39	22.72	34.43	5.01	30	24.05	34.63	5.00	23.37	452	0.14
49	20.39	34.16	5.58	50	20.00	34.11	5.66	24.11	381	0.22
58	18.03	33.90	5.99	75	16.42	34.00	4.32	24.91	305	0.30
68	17.12	34.00	4.78	100	14.41	34.30	1.93	25.57	242	0.38
82	15.71	34.00	3.97	150	12.72	34.65	0.35	26.19	183	0.48
97	14.75	34.27	2.14	200	11.61	34.69	0.26	26.45	159	0.57
111	13.92	34.43	1.23	250	10.70	34.65	0.30	26.57	147	0.65
134	13.39	34.60	0.48	300	9.75	34.57	0.42	26.68	137	0.72
161	12.26	34.65	0.35	400	8.50	34.51	0.31	26.83	123	0.86
193	11.78	34.70	0.26	500	7.70	34.49	0.20	26.97	109	0.98
238	10.90	34.66	0.29							
314	9.49	34.55	0.45							
407	8.40	34.51	0.30							
533	7.01	34.48	0.16							

STRANGER; October 17, 1957; 1215 GCT; 24°56'N, 115°03.5'W; sounding, 2100 fm; wind, 320°, force 3; weather, cloudy; sea, moderate; wire angle, 02°.

0	23.38	34.35	5.00	0	23.38	34.35	5.00	23.35	454	0.00
10	23.37	34.40	4.92	10	23.37	34.40	4.92	23.39	450	0.04
30	23.36	34.39	4.97	20	23.36	34.39	4.95	23.39	450	0.09
40	23.37	34.40	5.10	30	23.36	34.39	4.97	23.39	450	0.14
49	23.38	34.37	4.92	50	23.38	34.37	4.93	23.37	452	0.23
59	20.09	34.00	5.52	75	15.30	33.69	5.47	24.92	305	0.32
68	16.78	33.73	5.84	100	12.09	33.71	3.91	25.59	241	0.39
83	14.19	33.68	4.99	150	10.70	34.10	2.00	26.15	187	0.50
96	12.46	33.68 ^{a)}	4.23	200	10.03	34.33	1.42	26.44	160	0.58
110	11.49	33.78	3.29	250	9.47	34.41	1.04	26.60	145	0.66
133	11.14	34.04	2.11	300	8.91	34.42	0.82	26.70	135	0.74
161	10.42	34.13	1.94	400	7.63	34.43	0.48	26.90	117	0.87
193	10.16	34.30	1.47	500	6.70	34.42	0.31	27.03	104	0.98
241	9.58	34.40	1.07							
316	8.78	34.42	0.74							
410	7.50	34.43	0.44							
536	6.44	34.42	0.28							

STRANGER; October 17, 1957; 1729 GCT; 24°38'N, 115°41'W; sounding, 1800 fm; wind, 010°, force 3; weather, cloudy; sea, rough; wire angle, 01°.

0	22.78	34.24	5.06	0	22.78	34.24	5.06	23.44	445	0.00
10	22.78	34.25	5.06	10	22.78	34.25	5.06	23.45	444	0.04
30	22.77	34.25	5.04	20	22.77	34.25	5.05	23.45	444	0.09
39	22.64	34.23	5.04	30	22.77	34.25	5.04	23.45	444	0.13
48	17.54	33.72	5.94	50	17.20	33.71	5.93	24.50	344	0.21
58	16.11	33.70	5.88	75	13.11	33.69	4.17	25.38	260	0.29
68	14.30	33.70	4.79	100	12.14	33.88	2.93	25.72	229	0.35
82	12.51	33.69	3.91	150	10.71	34.21	1.64	26.24	179	0.45
96	12.24	33.84	3.12	200	10.02	34.43	0.93	26.52	153	0.54
110	11.78	33.96	2.45	250	9.39	34.42	0.83	26.62	143	0.61
133	11.10	34.13	1.82	300	8.83	34.53	0.70	26.79	127	0.68
161	10.42	34.27	1.53	400	7.80	34.44	0.43	26.89	117	0.81
193	10.15	34.43	0.96	500	6.98	34.44	0.30	27.02	105	0.93
240	9.53	34.42	0.88							
316	8.69	34.53	0.67							
411	7.63	34.43	0.40							
536	6.64	34.45	0.28							

a) Possible evaporation; value falls on property curve.

SIO

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13350

133.70

295

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5710

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

13380

STRANGER; October 17, 1957; 2113 GCT; 24°20.5'N, 116°20.5'W; sounding, 2050 fm; wind, 350°, force 3; weather, partly cloudy; sea, rough; wire angle, 04°.

0	23.39	34.40	5.09	0	23.39	34.40	5.09	23.39	450	0.00
10	23.30	34.39	5.00	10	23.30	34.39	5.00	23.41	448	0.04
30	23.22	34.39	5.09	20	23.26	34.39	5.05	23.42	447	0.09
39	23.12	34.36	5.09	30	23.22	34.39	5.09	23.43	446	0.13
49	17.74	33.68	5.98	50	17.28	33.64	6.04	24.43	351	0.21
58	15.74	33.53	6.17	75	14.18	33.62	5.60	25.10	287	0.29
68	14.77	33.62	5.76	100	11.35	33.57	4.76	25.61	238	0.36
83	13.49	33.61	5.47	150	11.17	34.26	1.80	26.19	184	0.47
98	11.52	33.57	4.83	200	10.36	34.43	1.21	26.47	157	0.56
112	10.84	33.64	4.40	250	9.61	34.43	0.96	26.60	145	0.63
135	11.16	34.04	2.22	300	9.10	34.49	0.62	26.72	133	0.71
163	11.20	34.36	1.24	400	7.85	34.44	0.42	26.87	119	0.84
196	10.42	34.43	1.21	500	6.88	34.45	0.33	27.02	105	0.95
242	9.71	34.43	1.01							
315	8.98	34.49	0.57							
409	7.72	34.43	0.42							
532	6.66	34.46	0.31							

13723

STRANGER; October 19, 1957; 0827 GCT; 25°34'N, 112°19'W; sounding, 41 fm; wind, 340°, force 4; weather, partly cloudy; sea, rough; wire angle, 00°.

0	23.64	34.60	4.45	0	23.64	34.60	4.45	23.47	443	0.00
10	23.64	34.63	4.58	10	23.64	34.63	4.58	23.49	441	0.04
30	23.66	34.61	4.30	20	23.65	34.62	4.45	23.48	442	0.09
51	21.12	34.40	3.80	30	23.66	34.61	4.30	23.47	443	0.13
				50	21.40	34.42	3.82	23.97	395	0.22

13730

STRANGER; October 19, 1957; 0522 GCT; 25°20.5'N, 112°45'W; sounding, 220 fm; wind, 330°, force 5; weather, partly cloudy; sea, rough; wire angle, 12°.

0	23.00	34.55	4.58	0	23.00	34.55	4.58	23.61	429	0.00
10	23.02	34.55	4.32	10	23.02	34.55	4.32	23.61	429	0.04
29	23.00	34.56	1.46	20	23.01	34.55	4.30	23.61	429	0.08
48	19.62	34.23	2.60	30	23.00	34.56	4.28	23.63	427	0.13
72	17.36	34.18	3.01	50	19.38	34.21	2.61	24.34	359	0.21
96	15.14	34.13	2.08	75	17.01	34.17	2.96	24.89	307	0.29
120	14.36	34.42	1.03	100	14.99	34.15	1.92	25.34	265	0.36
157	13.13	34.61	0.34	150	13.36	34.57	0.45	26.01	201	0.48
195	12.46	34.70	0.12	200	12.37	34.70	0.13	26.30	173	0.58
241	11.50	34.69	0.14	250	11.38	34.68	0.13	26.48	156	0.66
289	11.05	34.67	0.07							

13740

STRANGER; October 18, 1957; 2351 GCT; 25°00'N, 113°23'W; sounding, 1750 fm; wind, 340°, force 5; weather, cloudy; sea, rough; wire angle, 04°.

0	24.21	34.69	4.90	0	24.21	34.69	4.90	23.36	453	0.00
10	24.20	34.71	4.92	10	24.20	34.71	4.92	23.38	451	0.04
29	24.12	34.69	4.88	20	24.16	34.70	4.90	23.39	450	0.09
43	22.45	34.36	4.84	30	24.09	34.69	4.86	23.40	449	0.14
53	20.90	34.27	5.03	50	21.32	34.29	4.97	23.88	403	0.22
63	19.44	34.27	5.26	75	17.36	34.27	3.08	24.89	307	0.31
73	17.74	34.27	3.40	100	14.18	34.48	1.31	25.78	223	0.38
91	14.75	34.36	1.58	150	12.79	34.63	0.50	26.16	186	0.48
105	14.19	34.53	1.06	200	11.97	34.73	0.10	26.41	163	0.57
119	13.86	34.57	0.92	250	11.02	34.66	0.27	26.53	151	0.65
142	12.96	34.60	0.62	300	10.08	34.62	0.29	26.66	139	0.73
170	12.44	34.70	0.26	400	8.37	34.52	0.29	26.87	119	0.86
207	11.87	34.74	0.09	500	7.10	34.45	0.26	27.00	107	0.98
259	10.84	34.65	0.30							
340	9.36	34.60	0.26							
436	7.80	34.47	0.29							
575	6.46	34.45	0.21							

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

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STRANGER; October 18, 1957; 1830 GCT; 24°39'N, 114°04'W; sounding, 2015 fm; wind, 330°, force 5; weather, cloudy; sea, rough; wire angle, 00°.

13750

0	24.32	34.69	4.91	0	24.32	34.69	4.91	23.34	455	0.00
10	24.31	34.70	4.94	10	24.31	34.70	4.94	23.35	454	0.04
30	24.30	34.70	4.82	20	24.30	34.70	4.86	23.35	454	0.09
44	24.26	34.70	4.90	30	24.30	34.70	4.82	23.35	454	0.14
53	22.42	34.42	4.81	50	23.39	34.57	4.86	23.50	439	0.23
63	20.40	34.31	4.60	75	17.48	34.29	3.38	24.88	308	0.32
73	17.90	34.30	3.61	100	13.91	34.20	2.00	25.60	239	0.39
91	15.06	34.21	2.43	150	12.21	34.46	0.87	26.15	187	0.50
105	13.64	34.22	1.99	200	11.54	34.55	0.71	26.35	169	0.59
119	12.03	34.05	2.21	250	10.65	34.54	0.60	26.49	155	0.67
142	12.33	34.44	0.88	300	10.04	34.54	0.50	26.60	145	0.75
170	11.78	34.48	0.86	400	8.87	34.52	0.29	26.79	127	0.89
208	11.44	34.57	0.66	500	7.45	34.49	0.24	26.97	110	1.01
261	10.44	34.53	0.60	600	(6.03)	(34.45)		(27.13)	(94)	(1.12)
341	9.64	34.54	0.36							
442	8.36	34.51	0.26							
582	6.32	34.46	0.22							

STRANGER; October 18, 1957; 1235 GCT; 24°21.5'N, 114°40'W; sounding, 1900 fm; wind, 350°, force 5; weather, cloudy; sea, rough; wire angle, 13°.

13760

0	23.06	34.34	5.07	0	23.06	34.34	5.07	23.44	445	0.00
10	23.06	34.34	4.99	10	23.06	34.34	4.99	23.44	445	0.04
28	22.78	34.33	5.04	20	23.05	34.34	4.99	23.44	445	0.09
38	17.51	33.89	5.66	30	21.68	34.25	5.24	23.75	415	0.14
48	16.10	33.81	4.64	50	15.80	33.81	4.60	24.89	307	0.21
57	14.70 ^{a)}	33.82	4.58	75	13.47	33.93	3.19	25.49	251	0.28
66	14.00	33.82	4.12	100	13.19	34.46	0.81	25.96	205	0.34
80	13.30	34.02	2.62	150	12.71	34.66	0.30	26.20	182	0.43
94	13.24	34.38	1.12	200	11.97	34.75	0.20	26.42	162	0.52
107	13.16	34.51	0.61	250	11.28	34.74	0.19	26.54	152	0.60
130	12.93	34.62	0.43	300	10.62	34.67	0.23	26.60	145	0.68
156	12.67	34.67	0.28	400	9.02	34.54	0.28	26.78	128	0.82
189	12.12	34.74 ^{b)}	0.23	500	7.53	34.51	0.20	26.98	109	0.94
233	11.56	34.75	0.17							
307	10.58	34.66	0.23							
398	9.02	34.54	0.28							
520	7.24	34.51	0.18							

STRANGER; October 18, 1957; 0729 GCT; 24°03'N, 115°19.5'W; sounding, 2000 fm; wind, 010°, force 4; weather, cloudy; sea, moderate; wire angle, 20°.

13770

0	22.42	34.07	5.13	0	22.42	34.07	5.13	23.41	448	0.00
9	22.42	34.09	5.27	10	22.42	34.09	5.25	23.42	447	0.04
28	22.43	34.07	4.93	20	22.42	34.08	5.04	23.43	447	0.09
36	20.80	34.13	5.39	30	22.41	34.07	4.93	23.41	448	0.13
46	19.36	34.00	5.60	50	18.75	33.95	5.50	24.30	363	0.22
55	17.96	33.87	5.27	75	14.88	33.69	4.73	25.01	296	0.30
64	16.55	33.70	5.66	100	12.60	33.89	3.10	25.63	237	0.37
77	14.46	33.69	4.41	150	11.10	34.39	1.10	26.30	173	0.47
90	13.46	33.75	3.88	200	10.99	34.60	0.46	26.49	155	0.55
102	12.48	33.91	3.00	250	10.43	34.62	0.27	26.61	144	0.63
121	12.22	34.23	1.74	300	9.80	34.60	0.25	26.69	136	0.70
146	11.10	34.33	1.41	400	8.34	34.54	0.22	26.89	117	0.84
175	11.20	34.52	0.65	500	(7.24)	(34.49)	(0.13)	(27.02)	(105)	(0.95)
217	10.80	34.63	0.34							
284	10.04	34.61	0.25							
371	8.73	34.56	0.23							
491	7.30	34.50	0.15							

a) Alternate value of 15.22° rejected.

b) Loose bottle cap; value falls on property curve.

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

137.80

STRANGER; October 18, 1957; 0227 GCT; 23°44'N, 116°00'W; sounding, 2000 fm; wind, 350°, force 3; weather, partly cloudy; sea, moderate; wire angle, 00°.

0	23.51	34.42	5.23	0	23.51	34.42	5.23	26.37	452	0.00
8	23.52	34.41	4.93	10	23.50	34.42	4.90	26.36	453	0.04
27	23.48	34.42	4.80	20	23.49	34.42	4.86	26.37	452	0.09
37	23.42	34.42	5.11	30	23.46	34.42	5.02	26.38	451	0.14
46	21.62	34.26	5.16	50	20.00	34.12	5.14	24.11	381	0.22
55	17.42	33.92	5.11	75	15.42	34.00	4.00	25.13	285	0.30
64	16.56	33.94	5.07	100	12.28	33.68	4.42	25.53	246	0.37
78	15.06	34.02	3.68	150	10.74	34.20	2.02	26.22	181	0.48
91	12.78	33.71	4.33	200	10.78	34.52	0.87	26.46	158	0.56
106	12.00	33.68	4.42	250	10.08	34.57	0.47	26.62	143	0.64
131	11.06	33.96	2.82	300	9.42	34.54	0.36	26.70	135	0.72
157	10.68	34.25	1.76	400	8.35	34.52	0.26	26.86	119	0.85
190	10.87	34.49	1.04	500	7.41	34.51	0.28	27.00	107	0.97
237	10.25	34.57	0.53							
313	9.22	34.53	0.35							
408	8.26	34.52	0.26							
534	7.10	34.51	0.31							

TEMPERATURE AND SALINITY AT 10 AND 50 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters		50 Meters	
						Dir	Force			T	S	T	S
80.51-P	X-23	0600	34°27.5'	120°32.0'	48	130°	3	cloudy	slight	16.24	33.53	12.01	33.52
83.40-P	26	1045	34°14.0'	119°21.5'	12	calm		cloudy	slight	17.40	33.54	-	-
83.51-P	25	1740	33°52.0'	120°07.5'	60	270°	7	partly cloudy	rough	15.35	33.56	13.35	33.53
87.36-P	26	1650	33°48.0'	118°41.5'	450	270°	1	partly cloudy	rough	17.93	33.60	11.54	33.51
87.50-P	27	0500	33°20.0'	119°39.5'	42	270°	2	clear	rough	15.16	33.55	11.07	33.55
90.28-P	30	1230	33°28.5'	117°47.0'	255	360°	1	clear	slight	18.64	33.64	13.54	33.48
90.50-P	29	2005	32°46.5'	119°16.5'	260	040°	2	clear	moderate	16.34	33.49	12.53	33.35
93.27-P	30	1900	32°56.0'	117°19.0'	60	calm		overcast	slight	17.88	33.58	14.05	33.48
93.35-P	XI-1	0515	32°40.0'	117°52.0'	300	360°	1	cloudy	slight	18.71	33.60	12.80	33.48
97.30-P	4	1500	32°15.5'	117°08.5'	31	140°	2	cloudy	moderate	17.56	33.57	14.28	33.58
97.35-P	4	1030	32°06.0'	117°29.0'	670	220°	2	partly cloudy	moderate	18.80	33.64	13.30	33.52
100.29-P	5	0030	31°42.0'	116°43.0'	85	220°	2	rain	moderate	18.40	33.65	14.39	33.58
100.35-P	5	0510	31°31.0'	117°07.0'	560	calm		partly cloudy	moderate	19.03	33.68	13.73	33.49
103.30-P	8	0420	31°05.0'	116°25.0'	38	300°	4	partly cloudy	rough	17.72	33.66	15.56	33.68
107.32-S	X-4	1637	30°26.0'	116°11.0'	260	320°	4	cloudy	rough	19.30	33.68	14.28	33.52
110.33-S	7	0250	29°48.0'	115°52.0'	50	320°	6	partly cloudy	very rough	17.82	33.57	14.38	33.68
120.40-S	11	1510	27°53.0'	115°13.5'	18	290°	2	partly cloudy	moderate	18.91	33.93	-	-
123.37-S	14	0040	27°23.0'	114°40.0'	35	320°	5	partly cloudy	rough	20.64	34.06	16.77	33.83
127.34-S	14	0445	26°55.5'	114°06.0'	41	310°	4	partly cloudy	rough	22.77	34.36	18.14	33.85

TEMPERATURE AND SALINITY AT 10 AND 50 METERS (NET-TOW STATIONS)

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 Meters		50 Meters	
						Dir	Force			T	S	T	S
X-127.45-S	14	1045	26°33.5'	114°48.0'	520	330°	4	partly cloudy	rough	22.56	34.23	16.94	33.66
133.25-S	16	1806	26°05.0'	112°47.0'	43	320°	4	clear	moderate	22.78	34.44	19.46	34.29
133.35-S	16	2317	25°43.0'	113°25.5'	500	320°	4	partly cloudy	rough	22.96	34.31	18.22	33.89
137.35-S	19	0230	25°10.0'	113°04.5'	850	320°	5	partly cloudy	rough	23.57	34.52	20.94	34.22

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