

CORRECTIONS MADE :
STATION POSITIONS 4/8

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5401
(MLR 56)
5 January - 4 February 1954
and
CCOFI CRUISE 5402
(MLR 57)
2-16 February 1954

SIO Reference 58-38
1 August 1958

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CCOFI CRUISE 5401
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2-16 February 1954

Sponsored by

Marine Research Committee

SIO Reference 58-38
1 August 1958

Approved for distribution:



Roger Revelle, Director

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INTRODUCTION

The data in this report were collected on the fifty-sixth and the fifty-seventh consecutive cruises of the California Cooperative Oceanic Fisheries Investigations program. The R/V N. B. Scofield of the California Department of Fish and Game and the R/V Crest and the R/V Horizon of the Scripps Institution of Oceanography participated in the fifty-sixth cruise and the R/V Crest and the R/V Horizon participated in the fifty-seventh cruise.

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

STANDARD PROCEDURES

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

^{1/}

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

FOOTNOTES

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

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

p: pretrip or posttrip.

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

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

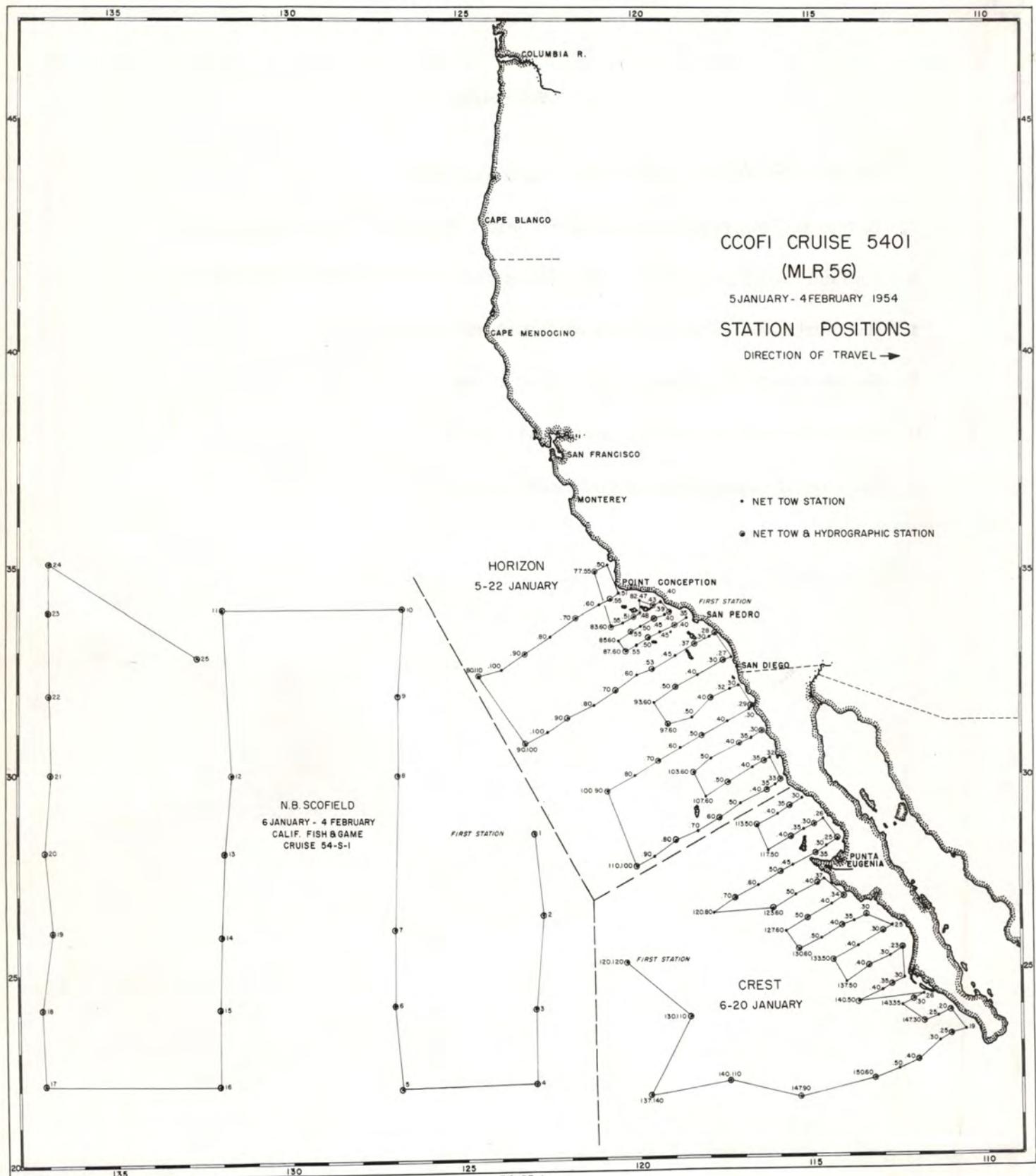
u: uncertain value (value may be correct; occasionally it can influence the drawing of the property curve).

FORMAT

These data are typed in the format of the University of California Press publication, "Oceanic Observations of the Pacific." So that these pages can be used as copy for the 1953 volume, the first page of the Cruise 5401 data is numbered 1 and the first page of the Cruise 5402 data is numbered 37.

FIGURES

1. CCOFI Cruise 5401 (MLR 56), 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



CCOFI CRUISE 5401

5 JANUARY - 4 FEBRUARY 1954

DYNAMIC HEIGHT ANOMALIES

(0 OVER 500 DECIBARS)

CONTOUR INTERVAL: 0.05 DYNAMIC METERS

CAPE MENDOCINO

SAN FRANCISCO

— APPROXIMATE 500 METER BOTTOM CONTOUR

—

POINT CONCEPTION

SAN DIEGO

PUNTA EUGENIA

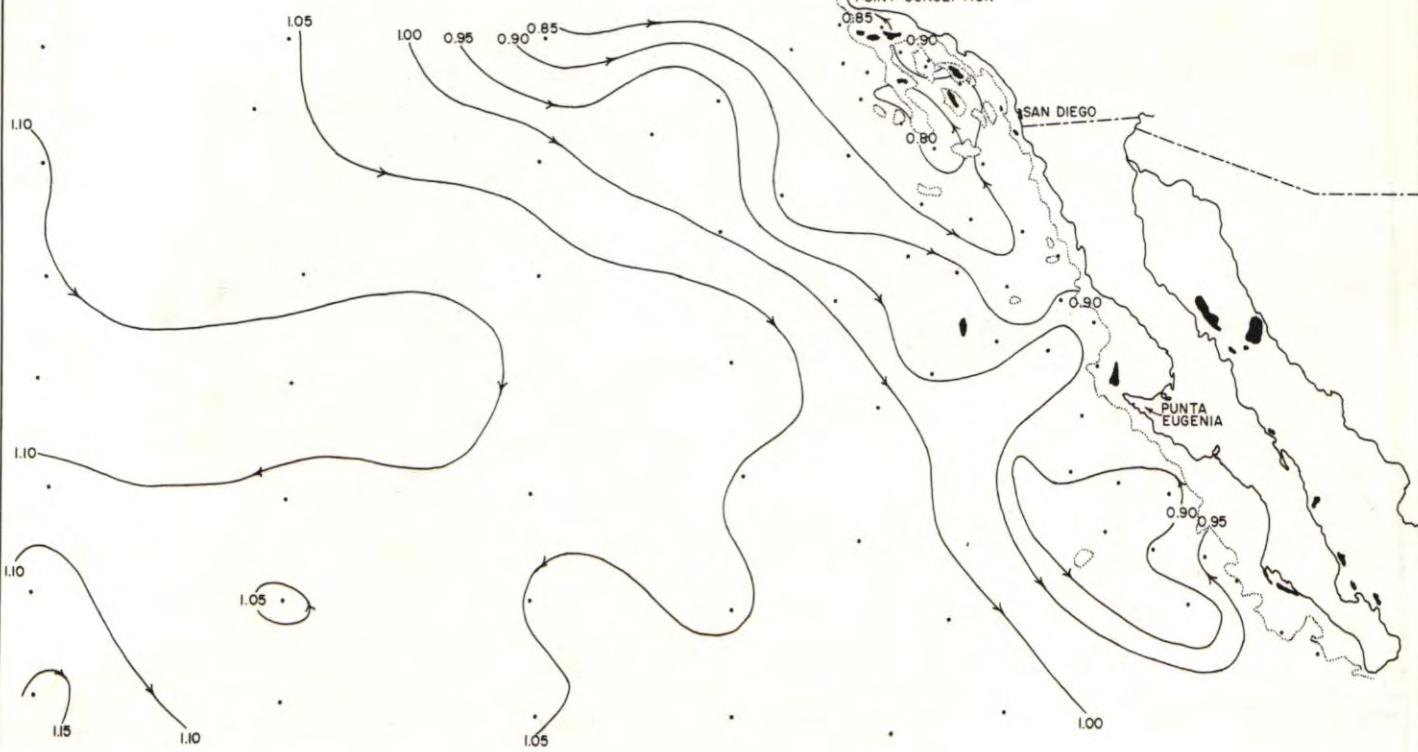


FIGURE 2

CCOFI CRUISE 5401

5 JANUARY - 4 FEBRUARY 1954

SURFACE CURRENTS

MEASURED BY G.E.K.

CORRECTED FOR DROOP FACTOR

✓ 5 CM/SEC

✓ 10 CM/SEC

CAPE MENDOCINO

SAN FRANCISCO

POINT CONCEPTION

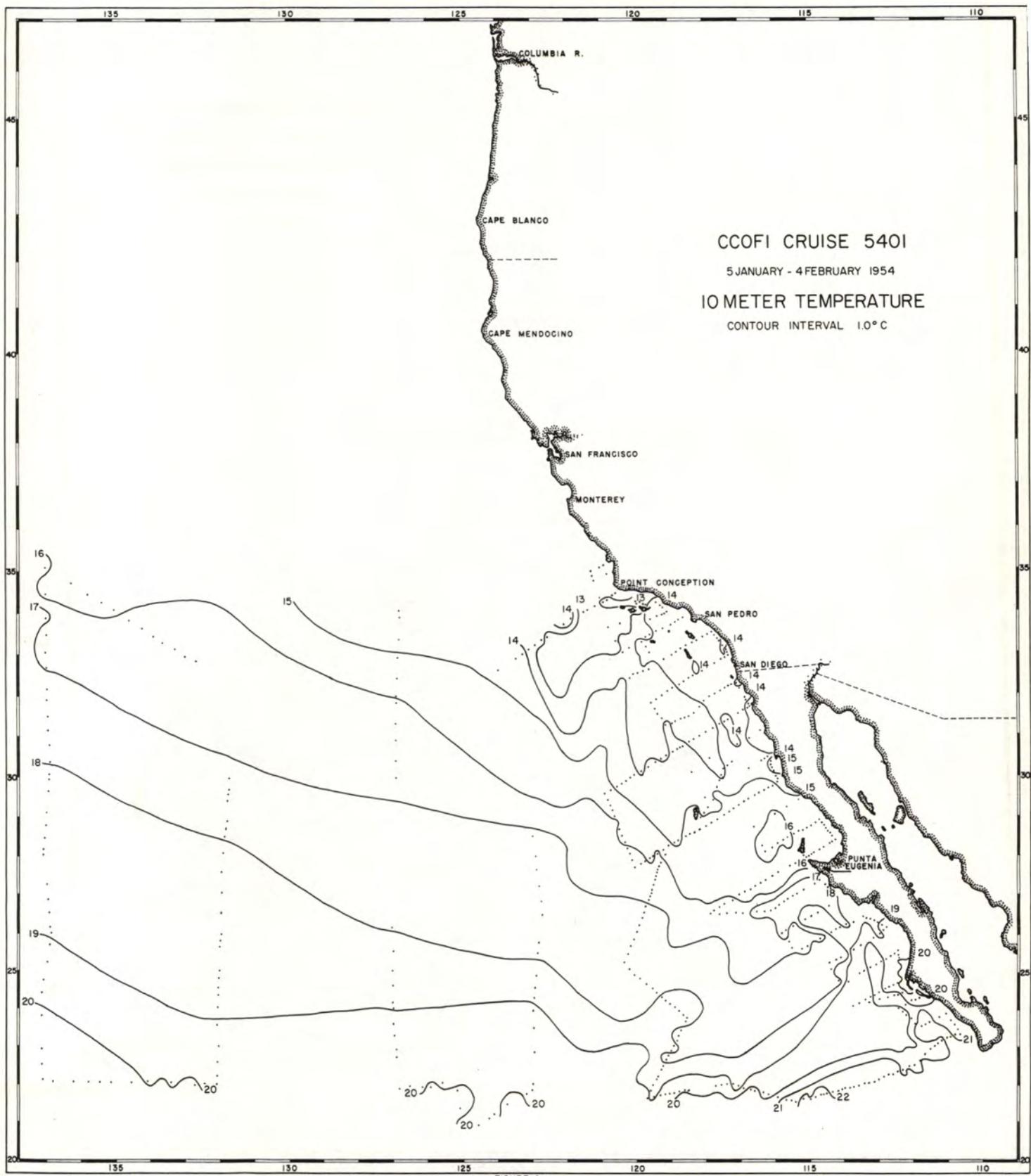
SAN DIEGO

PUNTA EUGENIA

N. B. SCOFIELD
6 JANUARY - 4 FEBRUARY

HORIZON
5-22 JANUARY

FIGURE 3



CCOFI CRUISE 5401

5 JANUARY-4 FEBRUARY 1954

10 METER SALINITY

CONTOUR INTERVAL 0.20‰

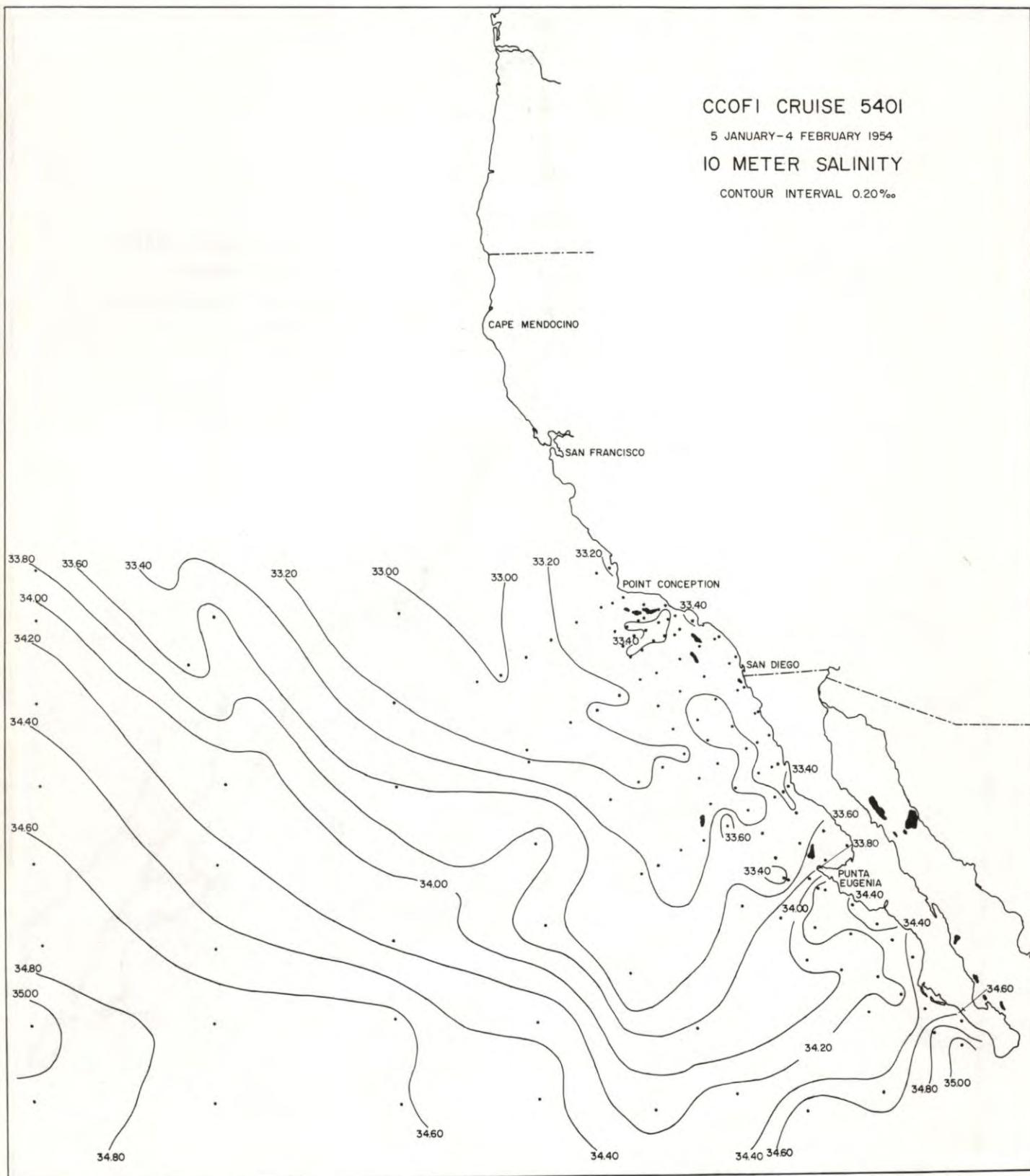


FIGURE 5

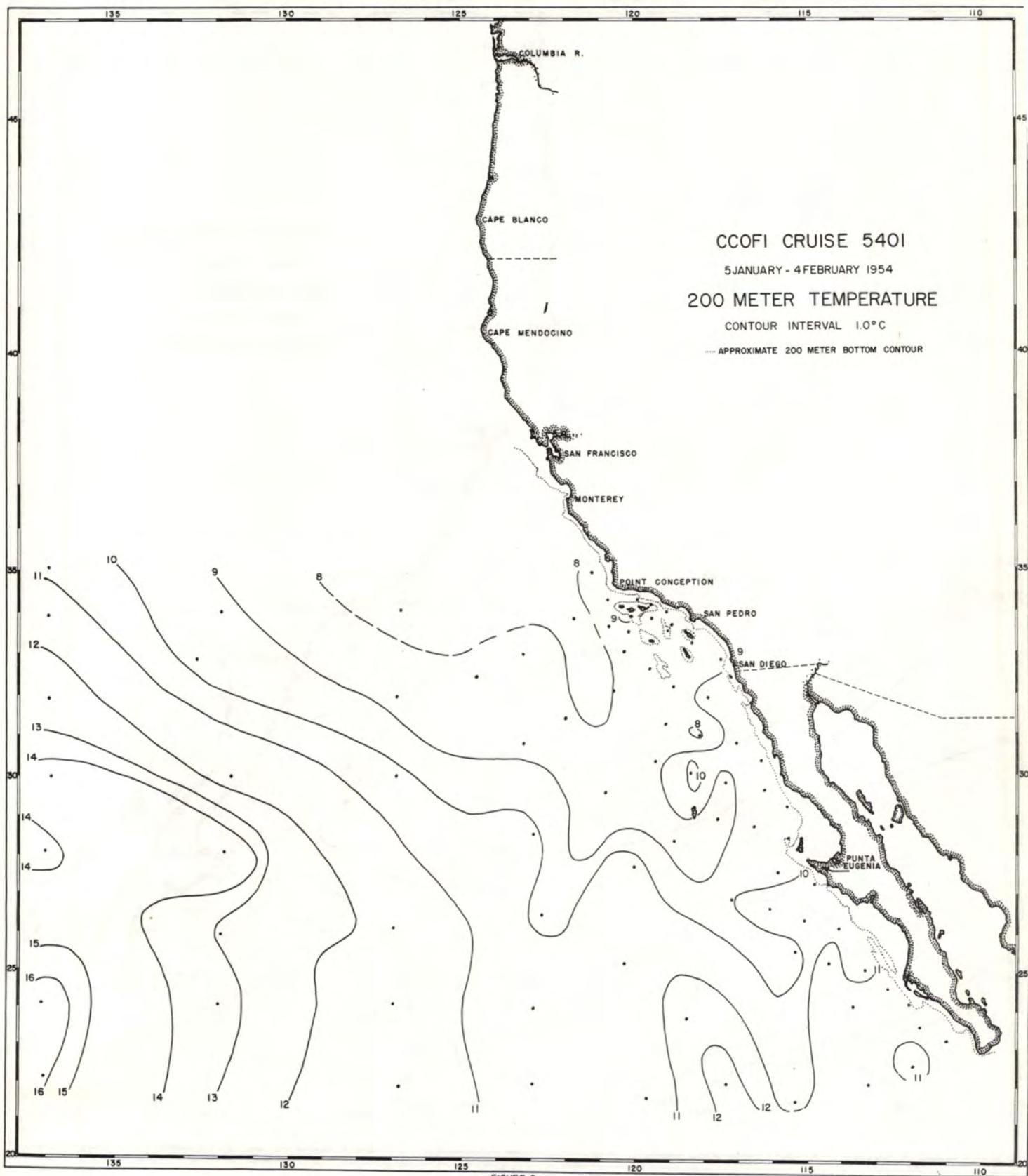


FIGURE 6

135

130

125

120

115

110

15

45

40

40

35

35

30

35

25

30

20

25

COLUMBIA R.

CAPE BLANCO

CAPE MENDOCINO

SAN FRANCISCO

MONTEREY

POINT CONCEPTION

SAN PEDRO

SAN DIEGO

34.00

34.20

34.40

34.60

34.80

35.00

35.20

35.40

35.60

35.80

36.00

36.20

36.40

36.60

36.80

37.00

CCOFI CRUISE 5401

5 JANUARY - 4 FEBRUARY 1954

200 METER SALINITY

CONTOUR INTERVAL 0.20‰

— APPROXIMATE 200 METER BOTTOM CONTOUR

FIGURE 7

CRUISE 5401
PERSONNEL

SHIPS' CAPTAINS

Davis, Laurence E., R/V Crest
Ferris, Noel L., R/V Horizon
Kuselj, Ivo, R/V N. B. Scofield

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V Crest

Mead, Richard V., Principal Marine Technician
King, Robert D., Marine Technician
MacGregor, John S., Fishery Research Biologist, U. S. Fish and Wildlife Service

R/V Horizon

Coolidge, Richard N., Senior Marine Technician
Casey, Harold D., Fishery Aid, U. S. Fish and Wildlife Service
Kivlen, John C., Marine Technician
Schwartzlose, Richard A., Senior Marine Technician

R/V N. B. Scofield

Wilson, Robert C., Assistant Marine Biologist, California Department of
Fish and Game
Holmberg, E. K., Aquatic Biologist, Oregon Fish Commission
Payne, Miles M., Jr., Senior Marine Technician

| 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 |

N. B. SCOFIELD; February 2, 1954; 1927 GCT; 35°05'N, 136°55'W; sounding, 950+ fm; wind, 170°, force 4; weather, drizzle; sea, moderate; wire angle, 18°.

45220
(24)

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 16.00 | 33.80 | 5.66 | 0 | 16.00 | 33.80 | 5.66 | 24.85 | 311 | 0.00 |
| 48 | 16.02 | 33.87 | 5.67 | 10 | (16.03) | (33.83) | (5.66) | (24.86) | (310) | (0.03) |
| 57 | 15.90 | 33.87 | 5.68 | 20 | (16.04) | (33.84) | (5.66) | (24.86) | (310) | (0.06) |
| 133 | 15.32 | 33.83 | 5.70 | 30 | (16.05) | (33.86) | (5.66) | (24.88) | (308) | (0.09) |
| 142 | 14.62 | 33.84 | 5.63 | 50 | 16.04 | 33.87 | 5.66 | 24.89 | 307 | (0.16) |
| 152 | 13.85 | 33.73 | 5.64 | 75 | 15.74 | 33.86 | 5.67 | 24.96 | 301 | (0.23) |
| 161 | 13.43 | 33.68 | 5.68 | 100 | 15.59 | 33.85 | 5.68 | 24.98 | 299 | (0.31) |
| 180 | 12.64 | 33.65 | 5.53 | 150 | 14.00 | 33.75 | 5.66 | 25.24 | 274 | (0.45) |
| 198 | 11.01 | 33.49 | 5.38 | 200 | 10.85 | 33.49 | 5.33 | 25.65 | 235 | (0.58) |
| 217 | 9.98 | 33.58 | 5.10 | 250 | 9.03 | 33.67 | 4.57 | 26.09 | 193 | (0.69) |
| 244 | 9.16 | 33.64 | 4.67 | 300 | 8.10 | 33.94 | 4.05 | 26.45 | 159 | (0.78) |
| 281 | 8.44 | 33.87 | 4.19 | 400 | 6.54 | 33.98 | 2.86 | 26.69 | 136 | (0.93) |
| 325 | 7.68 | 33.99 | 3.86 | 500 | 5.62 | 34.05 | 1.72 | 26.87 | 119 | (1.07) |
| 370 | 6.90 | 33.96 | 3.27 | 600 | 4.97 | 34.11 | 0.98 | 27.00 | 107 | (1.18) |
| 462 | 5.95 | 34.03 | 2.10 | 700 | 4.53 | 34.25 | 0.55 | 27.16 | 92 | (1.29) |
| 553 | 5.22 | 34.07 | 1.24 | 800 | 4.16 | 34.35 | 0.37 | 27.27 | 81 | (1.39) |
| 740 | 4.38 | 34.29 | 0.44 | 1000 | (3.47) | (34.46) | | (27.42) | (67) | (1.55) |
| 932 | 3.70 | 34.42 | 0.34 | | | | | | | |

N. B. SCOFIELD; February 1, 1954; 1954, 2107 GCT; 33°53'N, 136°53'W; sounding, 950+ fm; wind, 180°, force 2; weather, fog; sea, moderate; wire angle, 04°, 05°.

49.230
(23)

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 16.86 | 34.14 | 5.56 | 0 | 16.86 | 34.14 | 5.56 | 24.91 | 305 | 0.00 |
| 40 | 17.16 | 34.36 | 5.50 | 10 | (16.91) | (34.16) | (5.54) | (24.92) | (304) | (0.03) |
| 80 | 17.54 | 34.47 | 5.45 | 20 | (17.00) | (34.21) | (5.53) | (24.93) | (303) | (0.06) |
| 119 | 17.57 | 34.54 | 5.38 | 30 | (17.08) | (34.25) | (5.52) | (24.94) | (302) | (0.09) |
| 134 | 16.42 | 34.16 | 5.37 | 50 | 17.25 | 34.33 | 5.48 | 24.96 | 300 | (0.15) |
| 148 | 15.28 | 34.02 | 5.40 | 75 | 17.50 | 34.45 | 5.46 | 25.00 | 297 | (0.23) |
| 163 | 14.32 | 34.01 | 5.42 | 100 | 17.70 | 34.52 | 5.40 | 25.00 | 297 | (0.30) |
| | | | | 150 | 14.95 | 34.01 | 5.42 | 25.24 | 274 | (0.45) |
| 176 | 14.39 | 34.09 | 5.35 | 200 | 11.86 | 33.88 | 5.34 | 25.77 | 223 | (0.57) |
| 196 | 12.12 | 33.88 | 5.38 | 250 | 10.13 | 33.93 | 5.03 | 26.12 | 190 | (0.68) |
| 220 | 11.06 | 33.89 | 5.18 | 300 | 8.80 | 33.97 | 4.51 | 26.36 | 167 | (0.77) |
| 244 | 10.29 | 33.93 | 5.03 | 400 | 7.33 | 34.02 | 3.93 | 26.62 | 143 | (0.93) |
| 283 | 9.14 | 33.94 | 4.69 | 500 | 5.83 | 34.04 | 2.13 | 26.84 | 122 | (1.07) |
| 333 | 8.28 | 34.02 | 4.30 | 600 | 4.97 | 34.13 | 1.07 | 27.01 | 106 | (1.19) |
| 392 | 7.42 | 34.02 | 4.00 | 700 | 4.48 | 34.23 | 0.52 | 27.15 | 92 | (1.30) |
| 491 | 5.92 | 34.03 | 2.26 | 800 | 4.16 | 34.32 | 0.36 | 27.26 | 82 | (1.39) |
| 590 | 5.02 | 34.12 | 1.13 | 1000 | (3.67) | (34.49) | (0.38) | (27.44) | (65) | (1.56) |
| 788 | 4.20 | 34.30 | 0.38 | | | | | | | |
| 986 | 3.70 | 34.49 | 0.39 | | | | | | | |

SIO

CCOFI
5401

| | 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 |

58245
(22)

N. B. SCOFIELD; January 31, 1954; 1905 GCT; 31°57'N, 136°55'W; sounding, 950+ fm; wind, 180°, force 4; weather, overcast; sea, very rough; wire angle, 08°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 17.29 | 34.33 | 5.34 | 0 | 17.29 | 34.33 | 5.34 | 24.95 | 301 | 0.00 |
| 127 | 16.26 | 34.08 | 5.38 | 10 | (17.27) | (34.33) | (5.34) | (24.96) | (300) | (0.03) |
| 146 | 15.20 | 33.96 | 5.42 | 20 | (17.26) | (34.32) | (5.34) | (24.95) | (301) | (0.06) |
| 156 | 14.64 | 33.93 | 5.41 | 30 | (17.25) | (34.32) | (5.34) | (24.95) | (301) | (0.09) |
| 165 | 14.10 | 33.84 | 5.43 | 50 | (17.23) | (34.32) | (5.35) | (24.96) | (300) | (0.15) |
| 185 | 12.60 | 33.78 | 5.37 | 75 | (17.19) | (34.31) | (5.35) | (24.95) | (301) | (0.23) |
| 205 | 12.05 | 33.84 | 5.20 | 100 | (17.13) | (34.29) | (5.36) | (24.96) | (300) | (0.30) |
| 223 | 11.68 | 33.93 | 5.09 | 150 | 15.43 | 34.08 | 5.43 | 25.18 | 279 | (0.45) |
| 243 | 10.92 | 33.98 | 5.02 | 200 | 12.19 | 33.82 | 5.25 | 25.66 | 234 | (0.58) |
| 262 | 10.60 | 34.00 | 5.00 | 250 | 10.80 | 33.99 | 5.04 | 26.05 | 197 | (0.69) |
| 281 | 10.26 | 34.07 | 4.94 | 300 | 9.70 | 34.04 | 4.80 | 26.27 | 176 | (0.79) |
| 300 | 9.70 | 34.04 | 4.80 | 400 | 7.39 | 34.01 | 4.03 | 26.61 | 144 | (0.96) |
| 340 | 8.73 | 34.07 | 4.56 | 500 | 6.05 | 34.01 | 2.73 | 26.78 | 128 | (1.10) |
| 388 | 7.61 | 34.02 | 4.18 | 600 | 4.97 | 34.12 | 1.25 | 27.00 | 107 | (1.22) |
| 487 | 6.20 | 34.00 | 2.92 | 700 | 4.47 | 34.26 | 0.53 | 27.16 | 92 | (1.33) |
| 585 | 5.08 | 34.09 | 1.42 | 800 | 4.13 | 34.34 | 0.41 | 27.27 | 81 | (1.42) |
| 781 | 4.19 | 34.33 | 0.41 | 1000 | (3.60) | (34.44) | (0.46) | (27.40) | (69) | (1.58) |
| 978 | 3.66 | 34.43 | 0.42 | | | | | | | |

59175
(11)

N. B. SCOFIELD; January 18, 1954; 1818, 1848 GCT; 34°00'N, 131°55'W; sounding, 950+ fm; wind, 290°, force 4; weather, partly cloudy; sea, rough; wire angle, 14°, 21°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 16.12 | 33.63 | 5.79 | 0 | 16.12 | 33.63 | 5.79 | 24.69 | 326 | 0.00 |
| 106 | 16.14 | 33.62 | 5.72 | 10 | (16.12) | (33.63) | (5.79) | (24.69) | (326) | (0.03) |
| 115 | 16.12 | 33.59 | 5.58 | 20 | (16.12) | (33.63) | (5.78) | (24.69) | (326) | (0.06) |
| 125 | 14.82 | 33.60 | 5.81 | 30 | (16.12) | (33.63) | (5.78) | (24.69) | (326) | (0.10) |
| 134 | 14.38 | 33.77 | 5.71 | 50 | (16.13) | (33.62) | (5.77) | (24.68) | (327) | (0.16) |
| 144 | 14.06 | 33.67 | 5.67 | 75 | (16.15) | (33.62) | (5.77) | (24.67) | (328) | (0.25) |
| 163 | 12.48 | 33.48 | 5.68 | 100 | (16.16) | (33.62) | (5.75) | (24.67) | (328) | (0.33) |
| | | | | 150 | 13.02 | 33.53 | 5.65 | 25.28 | 270 | (0.48) |
| 170 | 12.02 | 33.44 | 5.63 | 200 | 9.96 | 33.61 | 5.38 | 25.90 | 211 | (0.60) |
| 189 | 11.28 | 33.49 | 5.49 | 250 | 9.04 | 33.77 | 4.72 | 26.17 | 185 | (0.70) |
| 225 | 9.42 | 33.62 | 5.09 | 300 | 8.16 | 33.96 | 3.93 | 26.46 | 158 | (0.79) |
| 271 | 8.70 | 33.95 | 4.39 | 400 | 6.60 | 34.01 | 2.48 | 26.72 | 133 | (0.94) |
| 362 | 7.10 | 33.98 | 3.05 | 500 | 5.56 | 34.20 | 1.24 | 27.00 | 107 | (1.07) |
| 455 | 5.98 | 34.09 | 1.67 | 600 | 4.86 | 34.28 | 0.74 | 27.14 | 93 | (1.18) |
| 548 | 5.19 | 34.27 | 0.94 | 700 | 4.40 | 34.29 | 0.49 | 27.20 | 88 | (1.27) |
| 738 | 4.29 | 34.29 | 0.41 | 800 | 4.12 | 34.31 | 0.36 | 27.25 | 83 | (1.36) |
| 935 | 3.84 | 34.47 | 0.33 | 1000 | (3.74) | (34.49) | | (27.43) | (66) | (1.53) |

| OBSERVED | | | | INTERPOLATED | | | | COMPUTED | | | | SIO CCOFI 5401 |
|--|---------|--------|------------------------|--------------|---------|---------|------------------------|-----------------------|--|--------------|--|----------------------|
| 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 | | |
| N. B. SCOFIELD; February 4, 1954; 1910 GCT; 32° 50'N, 132° 40'W; sounding, 450 fm; wind, 220°, force 1; weather, cloudy; sea, rough; wire angle, 00°. | | | | | | | | | | | | |
| 0 | 16.29 | 33.55 | 5.70 | 0 | 16.29 | 33.55 | 5.70 | 24.59 | 336 | 0.00 | | |
| 41 | 16.14 | 33.64u | 5.69 | 10 | (16.26) | (33.55) | (5.69) | (24.60) | (335) | (0.03) | | |
| 80 | 15.96 | 33.58u | 5.70 | 20 | (16.24) | (33.55) | (5.69) | (24.60) | (335) | (0.07) | | |
| 89 | 16.17 | 33.58 | 5.70 | 30 | (16.20) | (33.55) | (5.69) | (24.61) | (334) | (0.10) | | |
| 98 | 16.13 | 33.56 | 5.68 | 50 | 16.12 | 33.55 | 5.68 | 24.63 | 332 | (0.17) | | |
| 113 | 16.06 | 33.53 | 5.70 | 75 | 15.95 | 33.57 | 5.70 | 24.68 | 327 | (0.25) | | |
| 119 | 15.28 | 33.40 | 5.94 | 100 | 16.12 | 33.55 | 5.66 | 24.63 | 332 | (0.33) | | |
| 134 | 13.94 | 33.39 | 5.79 | 150 | 12.18 | 33.25 | 5.53 | 25.22 | 276 | (0.48) | | |
| 148 | 12.31 | 33.25 | 5.58 | 200 | 9.44 | 33.59 | 4.95 | 25.96 | 205 | (0.61) | | |
| 164 | 11.50 | 33.30 | 5.40 | 250 | 8.51 | 33.88 | 4.24 | 26.34 | 169 | (0.70) | | |
| 178 | 10.46 | 33.32 | 5.25 | 300 | 7.57 | 33.97 | 3.73 | 26.55 | 149 | (0.79) | | |
| 208 | 9.25 | 33.64 | 4.86 | 400 | 6.16 | 34.03 | 2.49 | 26.80 | 126 | (0.93) | | |
| 246 | 8.60 | 33.86 | 4.30 | 500 | 5.30 | 34.07 | 1.36 | 26.93 | 113 | (1.06) | | |
| 284 | 7.86 | 33.95 | 3.91 | 600 | 4.64 | 34.21 | 0.72 | 27.12 | 95 | (1.17) | | |
| 390 | 6.28 | 34.02 | 2.61 | 700 | (4.33) | (34.33) | (0.46) | (27.24) | (84) | (1.26) | | |
| 490 | 5.37 | 34.07 | 1.45 | | | | | | | | | |
| 589 | 4.70 | 34.19 | 0.78 | | | | | | | | | |
| 690 | 4.36 | 34.31 | 0.46 | | | | | | | | | |
| N. B. SCOFIELD; January 30, 1954; 1859 GCT; 30° 00'N, 136° 50'W; sounding, 950+ fm; wind, 180°, force 2; weather, overcast; sea, slight; wire angle, 08°. | | | | | | | | | | | | |
| 0 | 18.37 | 34.56 | 5.38 | 0 | 18.37 | 34.56 | 5.38 | 24.86 | 310 | 0.00 | | |
| 98 | 17.87 | 34.53 | 5.35 | 10 | (18.29) | (34.55) | (5.38) | (24.88) | (308) | (0.03) | | |
| 117 | 17.91 | 34.56 | 5.36 | 20 | (18.23) | (34.55) | (5.38) | (24.89) | (307) | (0.06) | | |
| 137 | 17.83 | 34.65 | 5.34 | 30 | (18.17) | (34.55) | (5.38) | (24.90) | (306) | (0.09) | | |
| 156 | 16.41 | 34.36 | 5.26 | 50 | (18.05) | (34.54) | (5.38) | (24.93) | (303) | (0.15) | | |
| 176 | 15.31 | 34.18 | 5.29 | 75 | (17.93) | (34.53) | (5.37) | (24.95) | (301) | (0.23) | | |
| 195 | 14.44 | 34.09 | 5.17 | 100 | 17.87 | 34.53 | 5.36 | 24.96 | 300 | (0.31) | | |
| 214 | 13.37 | 34.13 | 4.98 | 150 | 17.00 | 34.47 | 5.28 | 25.13 | 284 | (0.45) | | |
| 233 | 11.47 | 34.04 | 4.86 | 200 | 14.17 | 34.10 | 5.10 | 25.48 | 251 | (0.59) | | |
| 254 | 11.06 | 34.00 | 4.81 | 250 | 11.14 | 34.01 | 4.83 | 26.00 | 202 | (0.70) | | |
| 272 | 10.28 | 34.00 | 4.76 | 300 | 9.53 | 34.05 | 4.63 | 26.32 | 171 | (0.80) | | |
| 292 | 9.70 | 34.04 | 4.66 | 400 | 7.34 | 34.03 | 3.71 | 26.63 | 142 | (0.96) | | |
| 342 | 8.60 | 34.10 | 4.40 | 500 | 6.01 | 34.08 | 2.18 | 26.85 | 121 | (1.10) | | |
| 389 | 7.54 | 34.03 | 3.88 | 600 | 5.15 | 34.15 | 1.03 | 27.01 | 106 | (1.22) | | |
| 487 | 6.16 | 34.07 | 2.39 | 700 | 4.65 | 34.25 | 0.53 | 27.14 | 93 | (1.33) | | |
| 586 | 5.22 | 34.14 | 1.14 | 800 | 4.26 | 34.35 | 0.48 | 27.26 | 82 | (1.42) | | |
| 782 | 4.31 | 34.34 | 0.39 | 1000 | (3.58) | (34.47) | (0.58) | (27.43) | (66) | (1.58) | | |
| 979 | 3.67 | 34.45 | 0.54 | | | | | | | | | |

SIO

CCOFI
5401

| 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 | δ _T 10 ⁻⁵ cm ³ /g |

69120
(10)

| | |
|--|---|
| N. B. SCOFIELD; January 16, 1954; 1826 GCT; 34°07'N, 126°44'W; sounding, 950+ fm; wind, 220°, force 5; weather, overcast; sea, rough; wire angle, 22°. | |
| 0 14.10 33.08 5.55 0 14.10 33.08 5.55 24.70 325 0.00 | |
| 51 14.06 33.06 5.82 10 (14.10) (33.08) (5.56) (24.70) (325) (0.03) | |
| 60 13.94 33.15 5.85 20 (14.10) (33.08) (5.60) (24.70) (325) (0.06) | |
| 69 11.99 33.22 5.24 30 (14.10) (33.07) (5.66) (24.70) (325) (0.10) | |
| 78 10.83 33.22 5.08 50 14.06 33.06 5.84 24.70 325 (0.16) | |
| 87 10.28 33.30 4.71 75 11.19 33.22 5.11 25.38 260 (0.24) | |
| 100 9.22 33.46 4.21 100 9.22 33.46 4.21 25.90 211 (0.30) | |
| 118 8.66 33.66 3.63 150 8.43 33.79 3.20 26.28 175 (0.39) | |
| 153 8.38 33.82 3.15 200 7.64 33.95 2.59 26.52 152 (0.48) | |
| 179 7.86 33.91 2.85 250 7.16 34.05 2.10 26.67 138 (0.55) | |
| 269 6.95 34.09 1.97 300 6.56 34.11 1.74 26.80 126 (0.62) | |
| 360 5.90 - 1.35 400 5.56 34.13 1.11 26.94 112 (0.74) | |
| 451 5.24 34.14 0.85 500 5.05 34.23 0.63 27.08 99 (0.85) | |
| 545 4.89 34.29 0.47 600 4.68 34.32 0.39 27.20 88 (0.95) | |
| 734 4.26 34.38 0.37 700 4.35 34.36 0.36 27.24 84 (1.04) | |
| 930 3.80 34.49 0.46 800 4.09 34.40 0.37 27.32 76 (1.13) | |
| | 1000 (3.66) (34.51) (27.45) (64) (1.28) |

72280
(20)

| |
|--|
| N. B. SCOFIELD; January 29, 1954; 2029 GCT; 28°08'N, 137°03'W; sounding, 950+ fm; wind, 180°, force 4; weather, drizzle; sea, moderate; wire angle, 06°. |
| 0 18.33 34.63 5.33 0 18.33 34.63 5.33 24.93 303 0.00 |
| 40 18.26 34.68 5.31 10 (18.30) (34.63) (5.33) (24.93) (303) (0.03) |
| 60 18.91 34.96 5.26 20 (18.27) (34.64) (5.33) (24.95) (301) (0.06) |
| 129 19.14 35.06 5.18 30 (18.26) (34.64) (5.32) (24.95) (301) (0.09) |
| 139 19.10 35.07 5.18 50 18.52 34.81 5.28 25.02 295 (0.15) |
| 158 17.12 34.69 4.96 75 19.03 35.01 5.24 25.04 293 (0.22) |
| 178 16.04 34.50 4.91 100 19.12 35.04 5.18 25.04 293 (0.29) |
| 198 13.87 34.15 4.85 150 18.55 34.97 5.00 25.14 283 (0.44) |
| 217 13.37 34.14 4.86 200 13.77 34.15 4.85 25.60 240 (0.57) |
| 237 12.34 34.04 4.85 250 11.83 34.04 4.86 25.90 211 (0.69) |
| 256 11.61 34.04 4.88 300 10.35 34.03 4.74 26.16 186 (0.79) |
| 276 10.98 34.04 4.80 400 7.64 34.00 3.40 26.56 148 (0.96) |
| 295 10.53 34.04 4.72 500 6.20 34.03 2.02 26.79 127 (1.10) |
| 395 7.72 34.00 3.52 600 5.27 34.15 1.14 27.00 107 (1.22) |
| 493 6.29 34.02 2.06 700 4.68 (34.24) 0.52 (27.13) (94) (1.33) |
| 592 5.32 34.14 1.20 800 4.23 (34.33) 0.45 (27.25) (83) (1.43) |
| 789 4.27 34.13u 0.42 1000 (3.64) (34.44) (0.66) (27.40) (69) (1.60) |
| 988 3.68 34.43 0.65 |

7755

| |
|---|
| HORIZON; January 10, 1954; 0418 GCT; 34°54'N, 121°12.5'W; sounding, 310 fm; wind, 310°, force 5; weather, clear; sea, rough; wire angle, 35°. |
| 0 12.58 33.19 0 12.58 33.19 25.09 288 0.00 |
| 9 12.56 33.21 10 12.55 33.21 25.12 285 0.03 |
| 25 12.59 33.22 20 12.58 33.22 25.12 285 0.06 |
| 34 12.56 33.28 30 12.60 33.26 25.14 283 0.09 |
| 43 11.66 33.31 50 11.57 33.35 25.41 258 0.14 |
| 51 11.57 33.35 75 10.60 33.55 25.74 226 0.20 |
| 59 11.50 33.38 100 9.90 33.60 25.90 211 0.26 |
| 68 11.00 33.43 150 8.94 33.89 26.28 175 0.35 |
| 76 10.52 33.55 200 8.40 34.00 26.45 159 0.44 |
| 85 9.97 33.53 250 7.82 34.07 26.59 146 0.52 |
| 102 9.88 33.61 300 7.50 34.15 26.70 135 0.59 |
| 122 9.57 33.71 400 6.67 34.21 26.86 120 0.72 |
| 138 9.02 33.84 |
| 171 8.82 33.96 |
| 238 7.92 34.05 |
| 331 7.28 34.18 |
| 445 6.24 34.22 |

| OBSERVED | | | | INTERPOLATED | | | | COMPUTED | | | | SIO CCOFI 5401 |
|----------|---------|--------|------------------------|--------------|---------|--------|------------------------|-----------------------|---|--------------|--|----------------------|
| 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 | | |

N. B. SCOFIELD; January 20, 1954; 1840 GCT; 29°59'N, 131°40'W; sounding, 950+ fm; wind, 040°, force 1; weather, cloudy; sea, very rough; wire angle, 04°.

77205
(12)

| | | | | | | | | | | |
|-----|-------|--------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 17.47 | 34.13 | 5.39 | 0 | 17.47 | 34.13 | 5.39 | 24.77 | 319 | 0.00 |
| 99 | 17.46 | 34.34u | 5.40 | 10 | (17.47) | (34.13) | (5.39) | (24.77) | (319) | (0.03) |
| 118 | 16.25 | 34.13 | 5.46 | 20 | (17.47) | (34.13) | (5.39) | (24.77) | (319) | (0.06) |
| 129 | 16.20 | 34.10 | 5.43 | 30 | (17.47) | (34.13) | (5.39) | (24.76) | (320) | (0.10) |
| 138 | 15.69 | 34.13 | 5.32 | 50 | (17.48) | (34.13) | (5.39) | (24.76) | (320) | (0.16) |
| 149 | 15.08 | 34.01 | 5.26 | 75 | (17.49) | (34.13) | (5.39) | (24.76) | (320) | (0.24) |
| 157 | 14.44 | 33.93 | 5.22 | 100 | 17.45 | (34.13) | 5.39 | 24.76 | 320 | (0.32) |
| 176 | 13.40 | 33.86 | 5.18 | 150 | 14.95 | 33.99 | 5.25 | 25.22 | 276 | (0.47) |
| 196 | 11.98 | 33.81 | 5.06 | 200 | 11.70 | 33.81 | 5.05 | 25.74 | 226 | (0.59) |
| 246 | 9.78 | 33.86 | 4.77 | 250 | 9.66 | 33.87 | 4.74 | 26.15 | 187 | (0.70) |
| 294 | 8.80 | 33.99 | 4.46 | 300 | 8.68 | 33.99 | 4.40 | 26.40 | 164 | (0.79) |
| 393 | 6.98 | 33.98 | 3.47 | 400 | 6.83 | 33.98 | 3.35 | 26.66 | 139 | (0.95) |
| 492 | 5.58 | 34.04 | 1.97 | 500 | 5.53 | 34.05 | 1.86 | 26.88 | 118 | (1.08) |
| 589 | 4.98 | 34.16 | 0.94 | 600 | 4.91 | 34.18 | 0.86 | 27.06 | 101 | (1.20) |
| 787 | 4.28 | 34.36 | 0.39 | 700 | 4.53 | 34.29 | 0.46 | 27.19 | 89 | (1.30) |
| 985 | 3.74 | 34.48 | 0.62 | 800 | 4.24 | 34.37 | 0.40 | 27.28 | 80 | (1.39) |
| | | | | 1000 | (3.71) | (34.49) | (0.66) | (27.43) | (66) | (1.55) |

N. B. SCOFIELD; January 15, 1954; 1856 GCT; 31°58'N, 126°53'W; sounding, 950+ fm; wind, 220°, force 2; weather, overcast; sea, moderate; wire angle, 06°.

78140
(9)

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 15.42 | 33.20 | 5.76 | 0 | 15.42 | 33.20 | 5.76 | 24.51 | 343 | 0.00 |
| 90 | 14.90 | 33.17 | 5.81 | 10 | (15.42) | (33.20) | (5.76) | (24.51) | (343) | (0.03) |
| 99 | 13.34 | 33.13 | 5.97 | 20 | (15.42) | (33.20) | (5.77) | (24.51) | (343) | (0.07) |
| 108 | 12.74 | 33.12 | 5.97 | 30 | (15.42) | (33.20) | (5.77) | (24.51) | (343) | (0.10) |
| 118 | 11.93 | 33.08 | 5.79 | 50 | (15.40) | (33.20) | (5.78) | (24.52) | (342) | (0.17) |
| 138 | 10.93 | 33.18 | 5.44 | 75 | (15.38) | (33.20) | (5.80) | (24.52) | (342) | (0.26) |
| 157 | 10.13 | 33.30 | 5.05 | 100 | 13.28 | 33.13 | 5.95 | 24.91 | 305 | (0.34) |
| 178 | 9.34 | 33.50 | 4.32 | 150 | 10.41 | 33.26 | 5.19 | 25.54 | 245 | (0.48) |
| 196 | 8.87 | 33.68 | 3.72 | 200 | 8.78 | 33.73 | 3.68 | 26.18 | 184 | (0.59) |
| 245 | 8.24 | 33.98 | 3.41 | 250 | 8.20 | 33.99 | 3.34 | 26.48 | 156 | (0.68) |
| 294 | 7.72 | 34.10 | 2.43 | 300 | 7.66 | 34.11 | 2.34 | 26.65 | 140 | (0.75) |
| 392 | 6.58 | 34.18 | 1.31 | 400 | 6.44 | 34.18 | 1.27 | 26.87 | 119 | (0.89) |
| 490 | 5.31 | 34.19 | 0.94 | 500 | 5.29 | 34.19 | 0.92 | 27.02 | 105 | (1.00) |
| 589 | 5.22 | 34.34 | 0.43 | 600 | 5.20 | 34.35 | 0.43 | 27.16 | 92 | (1.11) |
| 786 | 4.53 | 34.49 | 0.37 | 700 | 4.84 | 34.46 | 0.38 | 27.29 | 79 | (1.20) |
| 984 | 3.84 | 34.51 | 0.53 | 800 | 4.48 | 34.49 | 0.37 | 27.35 | 74 | (1.28) |
| | | | | 1000 | (3.78) | (34.51) | (0.57) | (27.44) | (65) | (1.44) |

HORIZON; January 10, 1954; 1510 GCT; 34°17.5'N, 120°49'W; sounding, 430 fm; wind, 320°, force 5; weather, partly cloudy; sea, moderate; wire angle, 16°.

8055

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 13.01 | 33.36 | | 0 | 13.01 | 33.36 | | 25.14 | 283 | 0.00 |
| 10 | 13.00 | 33.38 | | 10 | 13.00 | 33.38 | | 25.16 | 281 | 0.03 |
| 30 | 13.01 | 33.40 | | 20 | 13.00 | 33.40 | | 25.17 | 280 | 0.06 |
| 40 | 12.69 | 33.34 | | 30 | 13.01 | 33.40 | | 25.17 | 280 | 0.08 |
| 50 | 11.24 | 33.32 | | 50 | 11.24 | 33.32 | | 25.45 | 254 | 0.14 |
| 60 | 11.03 | 33.40 | | 75 | 10.60 | 33.58 | | 25.76 | 224 | 0.20 |
| 70 | 10.88 | 33.49 | | 100 | 9.98 | 33.79 | | 26.03 | 199 | 0.25 |
| 79 | 10.42 | 33.65 | | 150 | 9.36 | 34.03 | | 26.32 | 171 | 0.34 |
| 89 | 10.24 | 33.68 | | 200 | 8.95 | 34.08 | | 26.43 | 161 | 0.43 |
| 99 | 9.99 | 33.79 | | 250 | 8.59 | 34.14 | | 26.53 | 151 | 0.51 |
| 124 | 9.72 | 33.94 | | 300 | 7.92 | 34.21 | | 26.69 | 136 | 0.58 |
| 153 | 9.31 | 34.04 | | 400 | 6.84 | 34.32 | | 26.93 | 113 | 0.72 |
| 203 | 8.93 | 34.08 | | 500 | 6.17 | 34.38 | | 27.06 | 101 | 0.83 |
| 262 | 8.48 | 34.20 | | 600 | 5.59 | 34.44 | | 27.18 | 90 | 0.93 |
| 366 | 7.14 | 34.20 | | | | | | | | |
| 487 | 6.25 | 34.35 | | | | | | | | |
| 611 | 5.52 | 34.30 | | | | | | | | |

SIO
CCOFl
540I

| | 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 |

80.70 HORIZON; January 10, 1954; 2326 GCT; 33°48.5'N, 121°49.5'W; sounding, 2000 fm; wind, 320°, force 4; weather, cloudy; sea, rough; wire angle, 30°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 14.05 | 33.30 | | 0 | 14.05 | 33.30 | | 24.88 | 308 | 0.00 |
| 9 | 14.02 | 33.31 | | 10 | 14.02 | 33.31 | | 24.90 | 306 | 0.03 |
| 23 | 13.94 | 33.26 | | 20 | 13.98 | 33.26 | | 24.87 | 309 | 0.06 |
| 45 | 13.51 | 33.34 | | 30 | 13.85 | 33.29 | | 24.92 | 304 | 0.09 |
| 54 | 12.80 | 33.31 | | 50 | 13.14 | 33.33 | | 25.09 | 288 | 0.15 |
| 63 | 12.27 | 33.19 | | 75 | 10.70 | 33.31 | | 25.53 | 246 | 0.22 |
| 72 | 11.10 | 33.28 | | 100 | 9.32 | 33.60 | | 25.99 | 202 | 0.28 |
| 89 | 9.54 | 33.42 | | 150 | 8.36 | 33.83 | | 26.32 | 171 | 0.37 |
| 111 | 9.12 | 33.68 | | 200 | 7.78 | 33.99 | | 26.53 | 151 | 0.45 |
| 138 | 8.52 | 33.78 | | 250 | 7.34 | 34.01 | | 26.61 | 144 | 0.53 |
| 181 | 7.98 | 33.98 | | 300 | 7.04 | 34.18 | | 26.79 | 127 | 0.60 |
| 242 | 7.40 | 34.00 | | 400 | 6.42 | 34.32 | | 26.98 | 109 | 0.72 |
| 330 | 6.89 | 34.25 | | 500 | 5.76 | 34.34 | | 27.08 | 99 | 0.83 |
| 440 | 6.16 | 34.33 | | 600 | 5.21 | 34.34 | | 27.15 | 92 | 0.93 |
| 596 | 5.22 | 34.34 | | 700 | 4.79 | 34.44 | | 27.28 | 80 | 1.02 |
| 795 | 4.43 | 34.49 | | 800 | 4.42 | 34.49 | | 27.36 | 73 | 1.11 |
| 1084 | 3.54 | 34.52 | | 1000 | 3.78 | 34.52 | | 27.45 | 64 | 1.26 |

80.90 HORIZON; January 11, 1954; 1025 GCT; 33°02.5'N, 123°13.5'W; sounding, 2350 fm; wind, 240°, force 5; weather, cloudy; sea, moderate; wire angle, 35°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.69 | 33.14 | | 0 | 14.69 | 33.14 | | 24.63 | 332 | 0.00 |
| 8 | 14.68 | 33.02 | | 10 | 14.68 | 33.02 | | 24.54 | 340 | 0.03 |
| 21 | 14.68 | 33.04 | | 20 | 14.67 | 33.04 | | 24.55 | 340 | 0.07 |
| 42 | 14.70 | 33.05 | | 30 | 14.69 | 33.05 | | 24.56 | 339 | 0.10 |
| 51 | 14.70 | 33.04 | | 50 | 14.70 | 33.04 | | 24.55 | 340 | 0.17 |
| 59 | 14.70 | 33.06 | | 75 | 13.80 | 33.07 | | 24.76 | 320 | 0.25 |
| 67 | 14.34 | 33.04 | | 100 | 11.95 | 33.06 | | 25.11 | 286 | 0.33 |
| 82 | 13.28 | 33.12 | | 150 | 9.30 | 33.55 | | 25.96 | 205 | 0.45 |
| 102 | 11.80 | 33.06 | | 200 | 8.78 | 33.99 | | 26.38 | 166 | 0.55 |
| 125 | 9.90 | 33.22 | | 250 | 8.20 | 34.06 | | 26.53 | 151 | 0.63 |
| 163 | 9.12 | 33.71 | | 300 | 7.70 | 34.10 | | 26.63 | 142 | 0.70 |
| 214 | 8.63 | 34.02 | | 400 | 6.83 | 34.17 | | 26.81 | 125 | 0.84 |
| 286 | 7.83 | 34.09 | | 500 | 6.06 | 34.24 | | 26.97 | 110 | 0.97 |
| 371 | 7.06 | 34.15 | | 600 | 5.40 | 34.32 | | 27.11 | 96 | 1.08 |
| 489 | 6.14 | 34.23 | | 700 | 4.90 | 34.40 | | 27.23 | 85 | 1.17 |
| 648 | 5.14 | 34.36 | | 800 | 4.54 | 34.48 | | 27.34 | 74 | 1.26 |
| 896 | 4.24 | 34.54 | | | | | | | | |

80.110 HORIZON; January 11, 1954; 2037 GCT; 32°25'N, 124°35'W; sounding, 2800 fm; wind, 300°, force 6; weather, rain; sea, high; wire angle, 23°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|---------|--|---------|------|--------|
| 0 | 15.15 | 33.13 | | 0 | 15.15 | 33.13 | | 24.52 | 342 | 0.00 |
| 10 | 15.12 | 33.11 | | 10 | 15.12 | 33.11 | | 24.51 | 343 | 0.03 |
| 30 | 15.14 | 33.14 | | 20 | 15.11 | 33.13 | | 24.53 | 341 | 0.07 |
| 52 | 15.08 | 33.12 | | 30 | 15.14 | 33.14 | | 24.53 | 341 | 0.10 |
| 67 | 14.66 | 33.04 | | 50 | 15.10 | 33.13 | | 24.53 | 341 | 0.17 |
| 75 | 14.17 | 33.05 | | 75 | 14.17 | 33.05 | | 24.67 | 328 | 0.26 |
| 89 | 12.93 | 33.04 | | 100 | 12.40 | 33.07 | | 25.04 | 293 | 0.33 |
| 111 | 11.94 | 33.10 | | 150 | 10.06 | 33.22 | | 25.57 | 242 | 0.47 |
| 142 | 10.52 | 33.18 | | 200 | 8.56 | 33.71 | | 26.20 | 183 | 0.58 |
| 163 | 9.44 | 33.30 | | 250 | 7.90 | 33.90 | | 26.45 | 159 | 0.66 |
| 215 | 8.33 | 33.84 | | 300 | 7.30 | 33.97 | | 26.59 | 146 | 0.74 |
| 290 | 7.42 | 33.95 | | 400 | 6.24 | 34.18 | | 26.90 | 116 | 0.88 |
| 389 | 6.32 | 34.16 | | 500 | 5.65 | 34.29 | | 27.06 | 101 | 0.99 |
| 524 | 5.52 | 34.30 | | 600 | 5.11 | 34.31 | | 27.14 | 93 | 1.10 |
| 707 | 4.66 | 34.33 | | 700 | 4.68 | 34.33 | | 27.20 | 88 | 1.20 |
| 932 | 4.03 | 34.43 | | 800 | 4.36 | 34.36 | | 27.26 | 82 | 1.29 |
| 1246 | 3.24 | - | | 1000 | 3.84 | (34.47) | | (27.40) | (69) | (1.45) |

| 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 |

N. B. SCOFIELD; January 28, 1954; 1901, 1937 GCT; 26°05'N, 136°49'W; sounding, 950+ fm; wind, 130°, force 2; weather, overcast; sea, moderate; wire angle, 10°, 15°.

| | | | | | | | | | | |
|-----|-------|--------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 19.02 | 34.71 | 5.16 | 0 | 19.02 | 34.71 | 5.16 | 24.81 | 315 | 0.00 |
| 98 | 18.87 | 34.72 | 5.14 | 10 | (18.99) | (34.71) | (5.16) | (24.82) | (314) | (0.03) |
| 127 | 18.74 | 34.73 | 5.17 | 20 | (18.95) | (34.71) | (5.16) | (24.83) | (313) | (0.06) |
| 136 | 17.63 | 34.52 | 5.18 | 30 | (18.90) | (34.72) | (5.16) | (24.86) | (310) | (0.09) |
| 146 | 17.42 | 34.52 | 5.18 | 50 | (18.84) | (34.72) | (5.15) | (24.87) | (309) | (0.16) |
| 164 | 16.62 | 34.36 | 5.02 | 75 | (18.80) | (34.72) | (5.15) | (24.87) | (309) | (0.23) |
| 183 | 14.54 | 34.11 | 4.91 | 100 | 18.85 | 34.72 | 5.15 | 24.86 | 310 | (0.31) |
| 203 | 13.12 | 34.02 | 4.82 | 150 | 17.35 | 34.51 | 5.15 | 25.08 | 289 | (0.46) |
| 222 | 12.16 | 33.96 | 4.79 | 200 | 13.36 | 34.04 | 4.85 | 25.60 | 240 | (0.60) |
| 241 | 10.92 | 33.87 | 4.54 | 250 | 10.55 | 33.88 | 4.35 | 26.00 | 202 | (0.71) |
| 261 | 10.10 | 33.93 | 4.19 | 300 | 9.12 | 34.05 | 4.13 | 26.37 | 166 | (0.81) |
| 288 | 9.52 | 34.01 | 4.12 | 400 | 7.73 | 34.18 | 2.39 | 26.69 | 136 | (0.96) |
| 335 | 8.45 | 34.09 | 3.98 | 500 | 6.29 | 34.25 | 1.22 | 26.94 | 112 | (1.10) |
| 382 | 7.98 | 34.16 | 2.63 | 600 | 5.46 | | 0.67 | | | |
| 478 | 6.58 | 34.25 | 1.43 | 700 | 4.97 | | 0.48 | | | |
| | | | | 800 | 4.63 | | 0.47 | | | |
| 573 | 5.62 | 34.25u | 0.75 | 1000 | (4.10) | | (0.84) | | | |
| 765 | 4.75 | 34.23u | 0.46 | | | | | | | |
| 960 | 4.20 | 34.57u | 0.74 | | | | | | | |

HORIZON; January 9, 1954; 0551 GCT; 34°14.5'N, 119°59'W; sounding, 325 fm; wind, 320°, force 5; weather, clear; sea, rough; wire angle, 10°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 13.18 | 33.37 | | 0 | 13.18 | 33.37 | | 25.12 | 285 | 0.00 |
| 10 | 13.16 | 33.37 | | 10 | 13.16 | 33.37 | | 25.12 | 285 | 0.03 |
| 30 | 12.94 | 33.39 | | 20 | 13.08 | 33.38 | | 25.15 | 282 | 0.06 |
| 40 | 11.48 | 33.37 | | 30 | 12.94 | 33.39 | | 25.18 | 280 | 0.08 |
| 50 | 10.94 | 33.46 | | 50 | 10.94 | 33.46 | | 25.61 | 239 | 0.14 |
| 60 | 10.39 | 33.60 | | 75 | 10.01 | 33.74 | | 25.99 | 202 | 0.19 |
| 70 | 10.08 | 33.74 | | 100 | 9.60 | 33.91 | | 26.19 | 184 | 0.24 |
| 80 | 9.94 | 33.74 | | 150 | 9.30 | 34.03 | | 26.33 | 170 | 0.33 |
| 90 | 9.70 | 33.91 | | 200 | 8.85 | 34.08 | | 26.44 | 160 | 0.42 |
| 100 | 9.60 | 33.91 | | 250 | 8.26 | 34.17 | | 26.60 | 145 | 0.49 |
| 119 | 9.50 | 33.98 | | 300 | 7.80 | 34.19 | | 26.69 | 136 | 0.57 |
| 144 | 9.33 | 34.02 | | 400 | 7.12 | 34.18 | | 26.78 | 128 | 0.70 |
| 163 | 9.22 | 34.05 | | 500 | 6.49 | 34.21 | | 26.89 | 117 | 0.83 |
| 202 | 8.80 | 34.08 | | | | | | | | |
| 281 | 7.97 | 34.19 | | | | | | | | |
| 386 | 7.21 | 34.18 | | | | | | | | |
| 508 | 6.46 | 34.21 | | | | | | | | |

SIO

CCOFI
5401

81300
(19)

8247

SIO

CCOFI
5401

| | 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 |

83.43

HORIZON; January 9, 1954; 0247 GCT; 34°08'N, 119°34'W; sounding, 130 fm; wind, 280°, force 4; weather, clear; sea, slight; wire angle, 03°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.36 | 33.40 | | 0 | 14.36 | 33.40 | | 24.90 | 306 | 0.00 |
| 10 | 14.36 | 33.39 | | 10 | 14.36 | 33.39 | | 24.89 | 307 | 0.03 |
| 15 | 14.36 | 33.40 | | 20 | 14.28 | 33.39 | | 24.91 | 305 | 0.06 |
| 20 | 14.28 | 33.39 | | 30 | 13.92 | 33.38 | | 24.97 | 300 | 0.09 |
| 26 | 14.25 | 33.39 | | 50 | 12.27 | 33.32 | | 25.25 | 273 | 0.15 |
| 31 | 13.82 | 33.37 | | 75 | 10.83 | 33.44 | | 25.61 | 239 | 0.21 |
| 36 | 13.34 | 33.33 | | 100 | 10.20 | 33.66 | | 25.89 | 212 | 0.27 |
| 47 | 12.54 | 33.31 | | 150 | 9.48 | 34.00 | | 26.28 | 175 | 0.37 |
| 57 | 11.82 | 33.39 | | 200 | 8.99 | 34.13 | | 26.46 | 158 | 0.45 |
| 67 | 11.62 | 33.43 | | | | | | | | |
| 77 | 10.73 | 33.45 | | | | | | | | |
| 97 | 10.26 | 33.64 | | | | | | | | |
| 112 | 10.02 | 33.72 | | | | | | | | |
| 142 | 9.56 | 33.95 | | | | | | | | |
| 173 | 9.26 | 34.09 | | | | | | | | |
| 209 | 8.89 | 34.14 | | | | | | | | |

83.51

HORIZON; January 9, 1954; 1056 GCT; 33°51.5'N, 120°08.5'W; sounding, 200 fm; wind, 320°, force 5; weather, clear; sea, rough; wire angle, 10°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 13.17 | 33.30 | | 0 | 13.17 | 33.30 | | 25.06 | 291 | 0.00 |
| 10 | 13.18 | 33.35 | | 10 | 13.18 | 33.35 | | 25.10 | 287 | 0.03 |
| 15 | 13.17 | 33.30 | | 20 | 13.16 | 33.33 | | 25.09 | 288 | 0.06 |
| 20 | 13.16 | 33.33 | | 30 | 12.80 | 33.35 | | 25.18 | 280 | 0.09 |
| 25 | 13.06 | 33.34 | | 50 | 11.75 | 33.39 | | 25.41 | 258 | 0.14 |
| 30 | 12.80 | 33.35 | | 75 | 10.12 | 33.57 | | 25.84 | 217 | 0.20 |
| 35 | 12.64 | 33.37 | | 100 | 9.68 | 33.76 | | 26.06 | 196 | 0.25 |
| 46 | 12.14 | 33.37 | | 150 | 9.57 | 33.86 | | 26.15 | 187 | 0.35 |
| 56 | 10.92 | 33.46 | | 200 | 9.04 | 34.02 | | 26.37 | 166 | 0.44 |
| 66 | 10.29 | 33.54 | | 250 | 8.52 | 34.15 | | 26.55 | 149 | 0.52 |
| 81 | 10.02 | 33.60 | | 300 | 7.93 | 34.21 | | 26.69 | 136 | 0.59 |
| 101 | 9.66 | 33.77 | | | | | | | | |
| 127 | 9.65 | 33.84 | | | | | | | | |
| 167 | 9.44 | 33.88 | | | | | | | | |
| 207 | 8.98 | 34.05 | | | | | | | | |
| 248 | 8.56 | 34.14 | | | | | | | | |
| 307 | 7.86 | 34.22 | | | | | | | | |

83.60

HORIZON; January 9, 1954; 1638 GCT; 33°33'N, 120°45.5'W; sounding, 1450 fm; wind, 320°, force 6; weather, partly cloudy; sea, high; wire angle, 38°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 12.52 | 33.40 | | 0 | 12.52 | 33.40 | | 25.27 | 271 | 0.00 |
| 8 | 12.50 | 33.37 | | 10 | 12.50 | 33.37 | | 25.25 | 273 | 0.03 |
| 25 | 12.48 | 33.41 | | 20 | 12.49 | 33.41 | | 25.28 | 270 | 0.05 |
| 37 | 12.35 | 33.40 | | 30 | 12.45 | 33.41 | | 25.29 | 269 | 0.08 |
| 50 | 11.79 | 33.37 | | 50 | 11.79 | 33.37 | | 25.38 | 260 | 0.13 |
| 58 | 11.16 | 33.44 | | 75 | 10.55 | 33.41 | | 25.64 | 236 | 0.20 |
| 66 | 11.02 | 33.37 | | 100 | 9.82 | 33.64 | | 25.94 | 207 | 0.25 |
| 78 | 10.41 | 33.44 | | 150 | 8.95 | 33.82 | | 26.22 | 181 | 0.35 |
| 86 | 10.10 | 33.49 | | 200 | 8.17 | 34.09 | | 26.56 | 148 | 0.44 |
| 99 | 9.86 | 33.64 | | 250 | 7.73 | 34.18 | | 26.69 | 136 | 0.51 |
| 123 | 9.30 | 33.66 | | 300 | 7.15 | 34.24 | | 26.82 | 124 | 0.58 |
| 146 | 9.02 | 33.78 | | 400 | 6.50 | 34.23 | | 26.90 | 116 | 0.70 |
| 189 | 8.29 | 34.07 | | 500 | 5.82 | 34.26 | | 27.01 | 106 | 0.82 |
| 234 | 7.90 | 34.15 | | | | | | | | |
| 315 | 7.04 | 34.25 | | | | | | | | |
| 428 | 6.34 | 34.23 | | | | | | | | |
| 555 | 5.44 | 34.31 | | | | | | | | |

| 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 |

N. B. SCOFIELD; January 21, 1954; 1915 GCT; 28°06'N, 131°53'W; sounding, 950+ fm; wind, 180°, force 3; weather, cloudy; sea, moderate; wire angle, 08°.

83.225
(13)

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 17.74 | 34.23 | 5.38 | 0 | 17.74 | 34.23 | 5.38 | 24.77 | 319 | 0.00 |
| 60 | 18.50 | 34.64 | 5.33 | 10 | (17.75) | (34.23) | (5.35) | (24.76) | (320) | (0.03) |
| 118 | 16.86 | 34.32 | 5.37 | 20 | (17.77) | (34.24) | (5.35) | (24.77) | (319) | (0.06) |
| 127 | 16.88 | 34.38 | 5.24 | 30 | (17.77) | (34.24) | (5.35) | (24.77) | (319) | (0.10) |
| 137 | 17.24 | 34.51 | 5.19 | 50 | (18.46) | (34.57) | (5.35) | (24.85) | (311) | (0.16) |
| 147 | 17.05 | 34.54 | 5.17 | 75 | 18.45 | 34.59 | 5.35 | 24.87 | 309 | (0.24) |
| 166 | 16.61 | 34.60 | 5.12 | 100 | 18.42 | 34.63 | 5.35 | 24.90 | 306 | (0.31) |
| 196 | 15.06 | 34.31 | 4.96 | 150 | 16.99 | 34.55 | 5.14 | 25.20 | 278 | (0.46) |
| 215 | 13.79 | 34.14 | 4.93 | 200 | 14.75 | 34.26 | 4.93 | 25.48 | 251 | (0.60) |
| 244 | 12.01 | 34.01 | 4.90 | 250 | 11.70 | 33.99 | 4.88 | 25.88 | 213 | (0.72) |
| 272 | 10.51 | 33.89 | 4.76 | 300 | 9.21 | 33.90 | 4.36 | 26.25 | 178 | (0.82) |
| 292 | 9.44 | 33.89 | 4.48 | 400 | 7.08 | 34.05 | 3.06 | 26.68 | 137 | (0.98) |
| 388 | 7.32 | 34.04 | 3.27 | 500 | 5.66 | 34.13 | 1.71 | 26.93 | 113 | (1.11) |
| 584 | 4.98 | 34.18 | 0.92 | 600 | 4.89 | 34.19 | 0.84 | 27.07 | 100 | (1.22) |
| 779 | 4.26 | 34.39 | 0.44 | 700 | 4.49 | 34.32 | 0.51 | 27.22 | 86 | (1.33) |
| 976 | 3.77 | 34.45 | 0.71 | 800 | 4.20 | 34.40 | 0.45 | 27.31 | 77 | (1.42) |
| | | | | 1000 | (3.70) | (34.45) | (0.76) | (27.40) | (69) | (1.58) |

HORIZON; January 8, 1954; 1835 GCT; 33°47'N, 119°31.5'W; sounding, 1060 fm; wind, 280°, force 4; weather, cloudy; sea, moderate; wire angle, 10°.

8545

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 14.68 | 33.40 | 0 | 14.68 | 33.40 | 24.83 | 313 | 0.00 |
| 10 | 14.66 | 33.39 | 10 | 14.66 | 33.39 | 24.83 | 313 | 0.03 |
| 30 | 14.64 | 33.38 | 20 | 14.65 | 33.38 | 24.82 | 314 | 0.06 |
| 40 | 14.56 | 33.51 | 30 | 14.64 | 33.38 | 24.82 | 314 | 0.09 |
| 51 | 14.31 | 33.37 | 50 | 14.36 | 33.39 | 24.89 | 307 | 0.16 |
| 61 | 12.30 | 33.26 | 75 | 11.50 | 33.34 | 25.41 | 258 | 0.23 |
| 71 | 11.80 | 33.30 | 100 | 10.17 | 33.54 | 25.80 | 221 | 0.29 |
| 81 | 11.02 | 33.41 | 150 | 9.15 | 33.85 | 26.22 | 181 | 0.39 |
| 92 | 10.32 | 33.42 | 200 | 8.62 | 34.07 | 26.47 | 157 | 0.48 |
| 101 | 10.16 | 33.55 | 250 | 8.29 | 34.19 | 26.62 | 143 | 0.55 |
| 126 | 9.54 | 33.71 | 300 | 7.82 | 34.20 | 26.69 | 136 | 0.62 |
| 156 | 9.08 | 33.88 | 400 | 7.12 | 34.23 | 26.82 | 124 | 0.76 |
| 206 | 8.58 | 34.09 | 500 | 6.55 | 34.30 | 26.95 | 111 | 0.88 |
| 264 | 8.18 | 34.20 | 600 | 5.87 | 34.34 | 27.07 | 100 | 1.00 |
| 369 | 7.30 | 34.21 | | | | | | |
| 489 | 6.62 | 34.29 | | | | | | |
| 615 | 5.76 | 34.34 | | | | | | |

HORIZON; January 8, 1954; 1112 GCT; 33°27.5'N, 120°12.5'W; sounding, 500 fm; wind, 310°, force 6; weather, clear; sea, very rough; wire angle, 33°.

8555

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 12.92 | 33.29 | 0 | 12.92 | 33.29 | 25.11 | 286 | 0.00 |
| 9 | 12.98 | 33.27 | 10 | 12.98 | 33.27 | 25.08 | 289 | 0.03 |
| 26 | 12.84 | 33.30 | 20 | 12.91 | 33.29 | 25.11 | 286 | 0.06 |
| 39 | 12.48 | 33.37 | 30 | 12.75 | 33.32 | 25.16 | 281 | 0.09 |
| 48 | 11.87 | 33.31 | 50 | 11.81 | 33.31 | 25.33 | 265 | 0.14 |
| 57 | 11.58 | 33.30 | 75 | 10.44 | 33.40 | 25.65 | 235 | 0.20 |
| 66 | 11.19 | 33.35 | 100 | 9.51 | 33.57 | 25.94 | 207 | 0.26 |
| 75 | 10.44 | 33.40 | 150 | 8.26 | 33.97 | 26.45 | 159 | 0.35 |
| 88 | 9.86 | 33.51 | 200 | 8.02 | 34.08 | 26.57 | 148 | 0.43 |
| 96 | 9.61 | 33.55 | 250 | 7.71 | 34.14 | 26.66 | 139 | 0.50 |
| 119 | 8.96 | 33.69 | 300 | 6.93 | 34.18 | 26.80 | 126 | 0.57 |
| 146 | 8.30 | 33.95 | 400 | 6.18 | 34.26 | 26.97 | 110 | 0.69 |
| 195 | 8.06 | 34.07 | 500 | 5.90 | 34.32 | 27.05 | 102 | 0.81 |
| 254 | 7.59 | 34.14 | 600 | 5.52 | 34.37 | 27.14 | 93 | 0.91 |
| 360 | 6.32 | 34.23 | | | | | | |
| 482 | 5.98 | 34.31 | | | | | | |
| 611 | 5.48 | 34.37 | | | | | | |

SIO

CCOFI
5401

| | 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 |

8740

HORIZON; January 6, 1954; 1015 GCT; 33°39.5'N, 118°59.5'W; sounding, 360 fm; wind, 220°, force 3; weather, clear; sea, slight; wire angle, 02°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.55 | 33.42 | | 0 | 14.55 | 33.42 | | 24.87 | 309 | 0.00 |
| 10 | 14.44 | 33.38 | | 10 | 14.44 | 33.38 | | 24.86 | 310 | 0.03 |
| 30 | 14.30 | 33.37 | | 20 | 14.36 | 33.37 | | 24.87 | 309 | 0.06 |
| 41 | 14.25 | 33.40 | | 30 | 14.30 | 33.37 | | 24.89 | 307 | 0.09 |
| 51 | 14.16 | 33.35 | | 50 | 14.18 | 33.35 | | 24.90 | 306 | 0.15 |
| 61 | 13.78 | 33.35 | | 75 | 12.29 | 33.31 | | 25.24 | 274 | 0.23 |
| 72 | 12.58 | 33.31 | | 100 | 10.58 | 33.48 | | 25.69 | 231 | 0.29 |
| 82 | 11.76 | 33.31 | | 150 | 9.31 | 33.83 | | 26.17 | 185 | 0.40 |
| 92 | 11.26 | 33.39 | | 200 | 8.88 | 34.02 | | 26.39 | 164 | 0.48 |
| 102 | 10.44 | 33.49 | | 250 | 8.53 | 34.10 | | 26.51 | 153 | 0.57 |
| 122 | 9.66 | 33.77 | | 300 | 8.15 | 34.15 | | 26.61 | 144 | 0.64 |
| 147 | 9.34 | 33.82 | | 400 | 7.36 | 34.23 | | 26.78 | 128 | 0.78 |
| 167 | 9.14 | 33.87 | | 500 | 6.50 | 34.28 | | 26.94 | 112 | 0.91 |
| 207 | 8.84 | 34.04 | | | | | | | | |
| 249 | 8.56 | 34.10 | | | | | | | | |
| 393 | 7.42 | 34.23 | | | | | | | | |
| 513 | 6.40 | 34.29 | | | | | | | | |

8750

HORIZON; January 6, 1954; 1603 GCT; 33°20.5'N, 119°40.5'W; sounding, 45 fm; wind, 090°, force 1; weather, cloudy; sea, moderate; wire angle, 06°.

| | | | | | | | | | | |
|----|-------|-------|--|----|-------|-------|--|-------|-----|------|
| 0 | 14.33 | 33.37 | | 0 | 14.33 | 33.37 | | 24.88 | 308 | 0.00 |
| 10 | 13.46 | 33.39 | | 10 | 13.46 | 33.39 | | 25.07 | 290 | 0.03 |
| 15 | 13.42 | 33.45 | | 20 | 13.30 | 33.46 | | 25.16 | 281 | 0.06 |
| 20 | 13.30 | 33.46 | | 30 | 12.05 | 33.41 | | 25.37 | 262 | 0.07 |
| 26 | 12.23 | 33.40 | | 50 | 11.63 | 33.41 | | 25.44 | 255 | 0.14 |
| 31 | 12.02 | 33.42 | | | | | | | | |
| 36 | 11.93 | 33.44 | | | | | | | | |
| 41 | 11.90 | 33.43 | | | | | | | | |
| 52 | 11.54 | 33.41 | | | | | | | | |

8760

HORIZON; January 8, 1954; 0440 GCT; 33°01'N, 120°20.5'W; sounding, 1800 fm; wind, 300°, force 5; weather, clear; sea, rough; wire angle, 35°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|--------|---------|--|---------|-------|--------|
| 0 | 13.93 | 33.31 | | 0 | 13.93 | 33.31 | | 24.98 | 298 | 0.00 |
| 9 | 13.92 | 33.40 | | 10 | 13.89 | 33.40 | | 25.00 | 297 | 0.03 |
| 26 | 12.76 | 33.33 | | 20 | 13.19 | 33.35 | | 25.10 | 287 | 0.06 |
| 34 | 11.94 | 33.30 | | 30 | 12.35 | 33.32 | | 25.24 | 274 | 0.09 |
| 43 | 10.99 | 33.26 | | 50 | 10.24 | 33.27 | | 25.58 | 242 | 0.14 |
| 51 | 10.16 | 33.27 | | 75 | 9.49 | 33.50 | | 25.89 | 212 | 0.20 |
| 59 | 9.94 | 33.33 | | 100 | 8.78 | 33.69 | | 26.14 | 188 | 0.25 |
| 67 | 9.58 | 33.40 | | 150 | 8.32 | 33.93 | | 26.41 | 163 | 0.34 |
| 76 | 9.37 | 33.51 | | 200 | 8.07 | 34.02 | | 26.52 | 152 | 0.42 |
| 84 | 9.10 | 33.55 | | 250 | 7.41 | 34.10 | | 26.67 | 138 | 0.49 |
| 106 | 8.70 | 33.72 | | 300 | 6.97 | 34.17 | | 26.79 | 127 | 0.56 |
| 129 | 8.48 | 33.79 | | 400 | 6.41 | 34.25 | | 26.92 | 114 | 0.68 |
| 166 | 8.26 | 33.99 | | 500 | (5.94) | (34.25) | | (26.99) | (108) | (0.80) |
| 204 | 8.03 | 34.02 | | | | | | | | |
| 279 | 7.12 | 34.14 | | | | | | | | |
| 373 | 6.56 | 34.24 | | | | | | | | |
| 481 | 6.03 | 34.25 | | | | | | | | |

| 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 |

N. B. SCOFIELD; January 27, 1954; 1850, 1943 GCT; 24°03'N, 137°12'W; sounding, 950+ fm; wind, 100°, force 3; weather, cloudy; sea, moderate; wire angle, 09°, 12°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 19.92 | 35.21 | 5.03 | 0 | 19.92 | 35.21 | 5.03 | 24.96 | 300 | 0.00 |
| 20 | 19.71 | 35.09 | 5.07 | 10 | 19.80 | 35.14 | 5.05 | 24.94 | 302 | 0.03 |
| 146 | 18.21 | 34.74 | 5.09 | 20 | 19.71 | 35.09 | 5.07 | 24.93 | 303 | 0.06 |
| 166 | 17.72 | 34.70 | 4.98 | 30 | (19.70) | (35.09) | (5.07) | (24.93) | (303) | (0.09) |
| 186 | 17.54 | 34.72 | 4.94 | 50 | (19.70) | (35.09) | (5.08) | (24.93) | (303) | (0.15) |
| 205 | 15.70 | 34.38 | 4.94 | 75 | (19.70) | (35.09) | (5.09) | (24.93) | (303) | (0.23) |
| 224 | 14.16 | 34.21 | 4.85 | 100 | (19.64) | (35.07) | (5.09) | (24.92) | (304) | (0.30) |
| | | | | 150 | 18.04 | 34.72 | 5.10 | 25.06 | 291 | (0.46) |
| 234 | 13.23 | 34.14 | 4.86 | 200 | 16.60 | 34.54 | 4.95 | 25.28 | 270 | (0.60) |
| 243 | 12.62 | 34.08 | 4.83 | 250 | 12.35 | 34.06 | 4.94 | 25.81 | 220 | (0.72) |
| 253 | 12.20 | 34.05 | 4.92 | 300 | 10.19 | 34.09 | 4.71 | 26.23 | 180 | (0.82) |
| 263 | 11.56 | 34.05 | 4.87 | 400 | 7.59 | 34.04 | 3.75 | 26.60 | 145 | (0.99) |
| 292 | 10.34 | 34.10 | 4.74 | 500 | 5.98 | 34.06 | 1.67 | 26.83 | 123 | (1.13) |
| 340 | 9.04 | 34.05 | 4.49 | 600 | 5.31 | 34.25 | 0.70 | 27.07 | 100 | (1.25) |
| 389 | 7.84 | 34.04 | 3.96 | 700 | 4.89 | 34.35 | 0.56 | 27.20 | 88 | (1.35) |
| 484 | 6.11 | 34.05 | 1.96 | 800 | 4.57 | 34.42 | 0.56 | 27.29 | 79 | (1.44) |
| 581 | 5.40 | 34.22 | 0.74 | 1000 | (4.01) | (34.48) | (0.84) | (27.39) | (70) | (1.61) |
| 776 | 4.64 | 34.40 | 0.56 | | | | | | | |
| 973 | 4.08 | 34.34 | 0.79 | | | | | | | |

HORIZON; January 14, 1954; 0811 GCT; 33°28.5'N, 117°46.5'W; sounding, 45 fm; wind, 040°, force 2; weather, clear; sea, slight; wire angle, 00°.

| | | | | | | | | | | |
|----|-------|-------|--|----|-------|-------|--|-------|-----|------|
| 0 | 13.89 | 33.36 | | 0 | 13.89 | 33.36 | | 24.96 | 300 | 0.00 |
| 10 | 13.87 | 33.39 | | 10 | 13.87 | 33.39 | | 24.99 | 298 | 0.03 |
| 15 | 13.88 | 33.37 | | 20 | 13.78 | 33.37 | | 24.99 | 298 | 0.06 |
| 20 | 13.78 | 33.37 | | 30 | 13.68 | 33.39 | | 25.03 | 294 | 0.09 |
| 26 | 13.74 | 33.37 | | 50 | 12.45 | 33.31 | | 25.21 | 277 | 0.15 |
| 31 | 13.62 | 33.39 | | | | | | | | |
| 36 | 13.44 | 33.37 | | | | | | | | |
| 41 | 13.38 | - | | | | | | | | |
| 52 | 12.05 | 33.30 | | | | | | | | |

HORIZON; January 14, 1954; 0302 GCT; 33°12'N, 118°22'W; sounding, 650 fm; wind, 320°, force 2; weather, clear; sea, smooth; wire angle, 00°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.34 | 33.39 | | 0 | 14.34 | 33.39 | | 24.89 | 307 | 0.00 |
| 10 | 14.30 | 33.36 | | 10 | 14.30 | 33.36 | | 24.88 | 308 | 0.03 |
| 31 | 14.23 | 33.41 | | 20 | 14.27 | 33.39 | | 24.91 | 305 | 0.06 |
| 41 | 12.88 | 33.26 | | 30 | 14.25 | 33.41 | | 24.93 | 303 | 0.09 |
| 51 | 11.34 | 33.35 | | 50 | 11.38 | 33.33 | | 25.43 | 256 | 0.15 |
| 62 | 11.14 | 33.44 | | 75 | 10.79 | 33.68 | | 25.81 | 220 | 0.21 |
| 72 | 10.86 | 33.69 | | 100 | 10.34 | 33.70 | | 25.90 | 211 | 0.26 |
| 82 | 10.66 | 33.63 | | 150 | 9.23 | 33.91 | | 26.25 | 178 | 0.36 |
| 92 | 10.38 | - | | 200 | 8.52 | 34.02 | | 26.45 | 159 | 0.45 |
| 102 | 10.32 | 33.71 | | 250 | 8.34 | 34.19 | | 26.61 | 144 | 0.52 |
| 128 | 10.06 | 33.85 | | 300 | 7.95 | 34.24 | | 26.71 | 134 | 0.60 |
| 157 | 9.05 | 33.92 | | 400 | 7.01 | 34.29 | | 26.88 | 118 | 0.73 |
| 207 | 8.48 | 34.04 | | 500 | 6.32 | 34.36 | | 27.03 | 104 | 0.85 |
| 267 | 8.28 | 34.22 | | 600 | 5.80 | 34.38 | | 27.11 | 96 | 0.95 |
| 372 | 7.24 | 34.27 | | | | | | | | |
| 492 | 6.38 | 34.36 | | | | | | | | |
| 621 | 5.70 | 34.38 | | | | | | | | |

SIO
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5401

88.318
(18)

90.28

11

SIO

CCOFI
5401

| 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 |

90.53 HORIZON; January 13, 1954; 1815 GCT; 32°35'N, 119°35.5'W; sounding, 1000 fm; wind, 020°, force 4; weather, partly cloudy; sea, very rough; wire angle, 11°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 13.81 | 33.31 | | 0 | 13.81 | 33.31 | | 24.94 | 302 | 0.00 |
| 10 | 13.78 | 33.32 | | 10 | 13.78 | 33.32 | | 24.96 | 300 | 0.03 |
| 25 | 13.78 | 33.30 | | 20 | 13.79 | 33.32 | | 24.95 | 301 | 0.06 |
| 50 | 12.96 | 33.35 | | 30 | 13.72 | 33.30 | | 24.95 | 301 | 0.09 |
| 60 | 11.18 | 33.18 | | 50 | 12.96 | 33.35 | | 25.14 | 283 | 0.15 |
| 71 | 10.03 | 33.41 | | 75 | 9.97 | 33.42 | | 25.75 | 225 | 0.21 |
| 81 | 9.90 | 33.43 | | 100 | 9.53 | 33.58 | | 25.94 | 207 | 0.27 |
| 101 | 9.50 | 33.59 | | 150 | 8.90 | 33.91 | | 26.30 | 173 | 0.36 |
| 126 | 9.06 | 33.79 | | 200 | 8.22 | 34.09 | | 26.55 | 149 | 0.45 |
| 156 | 8.68 | 33.94 | | 250 | 7.75 | 34.18 | | 26.69 | 136 | 0.52 |
| 205 | 8.16 | 34.10 | | 300 | 7.38 | 34.22 | | 26.77 | 128 | 0.59 |
| 276 | 7.57 | 34.20 | | 400 | 6.78 | 34.28 | | 26.90 | 116 | 0.72 |
| 379 | 6.90 | 34.26 | | 500 | 6.20 | 34.34 | | 27.03 | 104 | 0.83 |
| 509 | 6.15 | 34.34 | | 600 | 5.58 | 34.36 | | 27.12 | 95 | 0.94 |
| 692 | 5.08 | 34.37 | | 700 | 5.05 | 34.37 | | 27.19 | 89 | 1.04 |
| 916 | 4.20 | 34.49 | | 800 | 4.60 | 34.44 | | 27.30 | 78 | 1.13 |
| 1220 | 3.80 | 34.52 | | 1000 | 4.04 | 34.51 | | 27.41 | 68 | 1.29 |

90.70 HORIZON; January 13, 1954; 0817 GCT; 32°04'N, 120°39.5'W; sounding, 2100 fm; wind, 280°, force 4; weather, partly cloudy; sea, rough; wire angle, 18°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 14.02 | 33.21 | | 0 | 14.02 | 33.21 | | 24.82 | 314 | 0.00 |
| 10 | 14.02 | 33.17 | | 10 | 14.02 | 33.17 | | 24.79 | 317 | 0.03 |
| 30 | 13.92 | 33.15 | | 20 | 13.98 | 33.16 | | 24.79 | 317 | 0.06 |
| 55 | 12.52 | 33.12 | | 30 | 13.92 | 33.15 | | 24.80 | 316 | 0.10 |
| 69 | 10.78 | 33.02 | | 50 | 13.02 | 33.13 | | 24.96 | 300 | 0.16 |
| 78 | 10.46 | 33.04 | | 75 | 10.58 | 33.03 | | 25.34 | 264 | 0.22 |
| 93 | 9.64 | 33.24 | | 100 | 9.56 | 33.34 | | 25.75 | 225 | 0.29 |
| 118 | 9.40 | 33.57 | | 150 | 8.73 | 33.81 | | 26.25 | 178 | 0.39 |
| 151 | 8.70 | 33.82 | | 200 | 8.00 | 34.00 | | 26.51 | 153 | 0.48 |
| 175 | 8.30 | 33.94 | | 250 | 7.59 | 34.10 | | 26.65 | 140 | 0.55 |
| 234 | 7.72 | 34.07 | | 300 | 7.20 | 34.18 | | 26.77 | 128 | 0.62 |
| 316 | 7.06 | 34.19 | | 400 | 6.12 | 34.20 | | 26.93 | 113 | 0.75 |
| 430 | 5.90 | 34.20 | | 500 | 5.56 | 34.24 | | 27.03 | 104 | 0.86 |
| 581 | 5.22 | 34.34 | | 600 | 5.15 | 34.36 | | 27.17 | 91 | 0.96 |
| 785 | 4.52 | 34.48 | | 700 | 4.80 | 34.44 | | 27.28 | 80 | 1.06 |
| 1032 | 3.80 | 34.52 | | 800 | 4.48 | 34.48 | | 27.34 | 74 | 1.14 |
| 1359 | 3.10 | 34.56 | | 1000 | 3.88 | 34.52 | | 27.44 | 65 | 1.30 |

90.90 HORIZON; January 12, 1954; 2139 GCT; 31°23.5'N, 122°00'W; sounding, 2300 fm; wind, 320°, force 5; weather, partly cloudy; sea, high; wire angle, 26°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 13.41 | 33.15 | | 0 | 13.41 | 33.15 | | 24.90 | 306 | 0.00 |
| 9 | 13.38 | 33.14 | | 10 | 13.36 | 33.14 | | 24.90 | 306 | 0.03 |
| 29 | 13.44 | 33.19 | | 20 | 13.39 | 33.18 | | 24.93 | 303 | 0.06 |
| 52 | 13.45 | 33.15 | | 30 | 13.45 | 33.19 | | 24.92 | 304 | 0.09 |
| 65 | 12.51 | 33.04 | | 50 | 13.47 | 33.16 | | 24.90 | 306 | 0.15 |
| 73 | 12.31 | 33.12 | | 75 | 12.20 | 33.12 | | 25.11 | 286 | 0.23 |
| 87 | 10.79 | 32.97 | | 100 | 10.13 | 33.12 | | 25.48 | 251 | 0.30 |
| 110 | 9.76 | 33.36 | | 150 | 8.74 | 33.69 | | 26.15 | 187 | 0.40 |
| 140 | 8.96 | 33.65 | | 200 | 8.10 | 33.93 | | 26.44 | 160 | 0.49 |
| 162 | 8.54 | 33.75 | | 250 | 7.37 | 34.04 | | 26.63 | 142 | 0.57 |
| 215 | 7.92 | 33.97 | | 300 | 6.77 | 34.10 | | 26.76 | 129 | 0.64 |
| 289 | 6.88 | 34.09 | | 400 | 6.03 | 34.14 | | 26.89 | 117 | 0.77 |
| 392 | 6.09 | 34.13 | | 500 | 5.52 | 34.27 | | 27.06 | 101 | 0.88 |
| 531 | 5.40 | 34.29 | | 600 | 5.18 | 34.32 | | 27.14 | 93 | 0.99 |
| 721 | 4.77 | 34.36 | | 700 | 4.85 | 34.35 | | 27.20 | 88 | 1.08 |
| 953 | 3.86 | 34.47 | | 800 | 4.44 | 34.39 | | 27.28 | 80 | 1.18 |
| 1270 | 3.15 | 34.61 | | 1000 | 3.74 | 34.49 | | 27.43 | 66 | 1.34 |

| 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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5401

HORIZON; January 12, 1954; 1053 GCT; 30°45'N, 123°15'W; sounding, 2000 fm; wind, 320°, force 5; weather, partly cloudy; sea, rough; wire angle, 35°.

| | | | | | | | | | | |
|-----|-------|-------|--|------|--------|---------|--|---------|------|--------|
| 0 | 15.29 | 33.19 | | 0 | 15.29 | 33.19 | | 24.54 | 340 | 0.00 |
| 9 | 15.26 | 33.18 | | 10 | 15.26 | 33.18 | | 24.53 | 341 | 0.03 |
| 27 | 15.28 | 33.21 | | 20 | 15.26 | 33.21 | | 24.56 | 339 | 0.07 |
| 47 | 15.28 | 33.19 | | 30 | 15.28 | 33.21 | | 24.55 | 340 | 0.10 |
| 59 | 15.30 | 33.19 | | 50 | 15.28 | 33.19 | | 24.54 | 340 | 0.17 |
| 67 | 15.29 | 33.19 | | 75 | 15.30 | 33.29 | | 24.61 | 334 | 0.26 |
| 79 | 15.30 | 33.32 | | 100 | 13.41 | 33.18 | | 24.92 | 304 | 0.34 |
| 98 | 13.55 | - | | 150 | 10.35 | 33.31 | | 25.60 | 240 | 0.47 |
| 125 | 11.79 | 33.13 | | 200 | 8.68 | 33.79 | | 26.24 | 179 | 0.58 |
| 143 | 10.73 | 33.22 | | 250 | 8.24 | 34.02 | | 26.49 | 155 | 0.66 |
| 183 | 8.89 | 33.68 | | 300 | 7.76 | 34.14 | | 26.66 | 139 | 0.74 |
| 236 | 8.39 | 33.96 | | 400 | 6.66 | 34.18 | | 26.84 | 122 | 0.88 |
| 304 | 7.70 | 34.14 | | 500 | 6.10 | 34.32 | | 27.02 | 105 | 1.00 |
| 402 | 6.63 | 34.18 | | 600 | 5.60 | 34.34 | | 27.10 | 97 | 1.10 |
| 533 | - | 34.33 | | 700 | 5.16 | 34.34 | | 27.16 | 92 | 1.21 |
| 705 | 5.14 | 34.34 | | 800 | 4.77 | 34.38 | | 27.23 | 85 | 1.30 |
| 963 | 4.20 | 34.46 | | 1000 | (4.07) | (34.47) | | (27.38) | (71) | (1.48) |

90.IIO

N. B. SCOFIELD; January 22, 1954; 1905 GCT; 25°59'N, 132°00'W; sounding, 950+ fm; wind, 040°, force 1; weather, partly cloudy; sea, very rough; wire angle, 05°.

92.245
(14)

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 18.40 | 34.49 | 5.18 | 0 | 18.40 | 34.49 | 5.18 | 24.80 | 316 | 0.00 |
| 118 | 17.48 | 34.45 | 5.30 | 10 | (18.35) | (34.48) | (5.18) | (24.81) | (315) | (0.03) |
| 127 | 17.10 | 34.43 | 5.27 | 20 | (18.30) | (34.47) | (5.18) | (24.82) | (314) | (0.06) |
| 137 | 17.06 | 34.45 | 5.18 | 30 | (18.24) | (34.47) | (5.19) | (24.83) | (313) | (0.09) |
| 147 | 17.34 | 34.58 | 5.10 | 50 | (18.13) | (34.46) | (5.22) | (24.85) | (311) | (0.16) |
| 156 | 16.74 | 34.50 | 5.08 | 75 | (18.07) | (34.45) | (5.25) | (24.85) | (311) | (0.24) |
| 166 | 15.53 | 34.24 | 5.06 | 100 | (18.02) | (34.45) | (5.27) | (24.86) | (310) | (0.31) |
| 176 | 14.74 | 34.26 | 5.01 | 150 | 17.50 | 34.65 | 5.07 | 25.15 | 283 | (0.46) |
| 195 | 13.22 | 34.02 | 4.91 | 200 | 12.90 | 33.99 | 4.87 | 25.65 | 235 | (0.59) |
| 243 | 10.41 | 33.91 | 4.58 | 250 | 10.19 | 33.92 | 4.47 | 26.10 | 192 | (0.70) |
| 292 | 9.02 | 34.04 | 3.86 | 300 | 8.89 | 34.04 | 3.82 | 26.40 | 164 | (0.80) |
| 389 | 7.31 | 34.04 | 3.52 | 400 | 7.15 | 34.05 | 3.51 | 26.67 | 138 | (0.95) |
| 487 | 6.18 | 34.21 | 1.29 | 500 | 6.08 | 34.24 | 1.05 | 26.96 | 110 | (1.08) |
| 584 | 5.68 | 34.34 | 0.51 | 600 | 5.59 | 34.35 | 0.50 | 27.11 | 96 | (1.19) |
| 781 | 4.70 | 34.45 | 0.50 | 700 | 5.06 | 34.41 | 0.50 | 27.22 | 86 | (1.29) |
| 979 | 4.05 | 34.56 | 0.66 | 800 | 4.64 | 34.46 | 0.50 | 27.31 | 77 | (1.38) |
| | | | | 1000 | (3.99) | (34.57) | (0.68) | (27.47) | (62) | (1.54) |

HORIZON; January 14, 1954; 1511 GCT; 32°49.5'N, 117°31.5'W; sounding, 415 fm; wind, 140°, force 2; weather, clear; sea, smooth; wire angle, 00°.

93.30

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.34 | 33.38 | | 0 | 14.34 | 33.38 | | 24.89 | 307 | 0.00 |
| 10 | 14.32 | 33.39 | | 10 | 14.32 | 33.39 | | 24.90 | 306 | 0.03 |
| 30 | 14.33 | 33.38 | | 20 | 14.32 | 33.38 | | 24.89 | 307 | 0.06 |
| 41 | 14.28 | 33.40 | | 30 | 14.33 | 33.38 | | 24.89 | 307 | 0.09 |
| 51 | 13.14 | 33.30 | | 50 | 13.35 | 33.31 | | 25.04 | 293 | 0.15 |
| 61 | 11.93 | 33.31 | | 75 | 11.10 | 33.40 | | 25.53 | 246 | 0.22 |
| 72 | 11.24 | 33.38 | | 100 | 10.40 | 33.64 | | 25.84 | 217 | 0.28 |
| 82 | 10.84 | 33.45 | | 150 | 9.38 | 33.89 | | 26.21 | 182 | 0.38 |
| 92 | 10.66 | - | | 200 | 8.56 | 34.02 | | 26.44 | 160 | 0.47 |
| 102 | 10.38 | 33.66 | | 250 | 8.20 | 34.13 | | 26.59 | 146 | 0.54 |
| 127 | 10.12 | 33.82 | | 300 | 7.68 | 34.16 | | 26.68 | 137 | 0.62 |
| 158 | 9.17 | 33.91 | | 400 | 6.92 | 34.19 | | 26.81 | 125 | 0.75 |
| 207 | 8.50 | 34.04 | | 500 | 6.53 | 34.28 | | 26.94 | 112 | 0.88 |
| 267 | 8.06 | 34.15 | | 600 | 5.80 | 34.36 | | 27.09 | 98 | 0.99 |
| 373 | 7.04 | 34.17 | | | | | | | | |
| 494 | 6.56 | 34.28 | | | | | | | | |
| 621 | 5.59 | 34.38 | | | | | | | | |

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5401

| | 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 |

93.50

HORIZON; January 15, 1954; 0127 GCT; 32°10'N, 118°56'W; sounding, 850 fm; wind, 290°, force 3; weather, partly cloudy; sea, slight; wire angle, 00°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 13.88 | 33.39 | 0 | 13.88 | 33.39 | 24.99 | 298 | 0.00 |
| 10 | 13.84 | 33.38 | 10 | 13.84 | 33.38 | 24.99 | 298 | 0.03 |
| 31 | 13.74 | 33.40 | 20 | 13.80 | 33.39 | 25.01 | 296 | 0.06 |
| 41 | 13.04 | 33.37 | 30 | 13.76 | 33.40 | 25.02 | 295 | 0.09 |
| 51 | 11.27 | 33.36 | 50 | 11.40 | 33.36 | 25.45 | 254 | 0.14 |
| 62 | 10.29 | 33.49 | 75 | 9.78 | 33.58 | 25.90 | 211 | 0.20 |
| 72 | 9.88 | 33.56 | 100 | 9.28 | 33.76 | 26.12 | 190 | 0.25 |
| 82 | 9.59 | 33.63 | 150 | 8.48 | 33.98 | 26.42 | 162 | 0.34 |
| 92 | 9.38 | - | 200 | 8.02 | 34.12 | 26.60 | 145 | 0.42 |
| 103 | 9.22 | 33.78 | 250 | 7.50 | 34.14 | 26.69 | 136 | 0.49 |
| 128 | 8.78 | 33.92 | 300 | 7.16 | 34.20 | 26.79 | 127 | 0.56 |
| 158 | 8.38 | 34.00 | 400 | 6.50 | 34.29 | 26.95 | 111 | 0.68 |
| 208 | 7.95 | 34.13 | 500 | 5.82 | 34.27 | 27.02 | 105 | 0.80 |
| 268 | 7.34 | 34.15 | 600 | 5.41 | 34.36 | 27.14 | 93 | 0.90 |
| 373 | 6.74 | 34.30 | | | | | | |
| 495 | 5.84 | 34.27 | | | | | | |
| 622 | 5.34 | 34.39 | | | | | | |

97.40

HORIZON; January 15, 1954; 2114 GCT; 31°54.5'N, 117°52'W; sounding, 1090 fm; wind, 360°, force 2; weather, partly cloudy; sea, slight; wire angle, 03°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 14.65 | 33.43 | 0 | 14.65 | 33.43 | 24.86 | 310 | 0.00 |
| 10 | 14.52 | 33.43 | 10 | 14.52 | 33.43 | 24.89 | 307 | 0.03 |
| 31 | 14.47 | 33.39 | 20 | 14.50 | 33.41 | 24.87 | 309 | 0.06 |
| 41 | 13.92 | 33.38 | 30 | 14.47 | 33.39 | 24.87 | 309 | 0.09 |
| 51 | 12.65 | 33.28 | 50 | 12.80 | 33.29 | 25.13 | 284 | 0.15 |
| 61 | 11.76 | 33.26 | 75 | 11.02 | 33.30 | 25.47 | 252 | 0.22 |
| 72 | 11.19 | 33.28 | 100 | 10.03 | 33.55 | 25.84 | 217 | 0.28 |
| 82 | 10.67 | 33.40 | 150 | 9.76 | 34.07 | 26.29 | 174 | 0.38 |
| 92 | 10.23 | - | 200 | 9.77 | 34.38 | 26.53 | 151 | 0.46 |
| 103 | 9.99 | 33.58 | 250 | 9.22 | 34.33 | 26.58 | 146 | 0.54 |
| 128 | 9.58 | 33.86 | 300 | 8.42 | 34.27 | 26.66 | 139 | 0.61 |
| 158 | 9.79 | 34.15 | 400 | 7.06 | 34.24 | 26.83 | 123 | 0.75 |
| 208 | 9.72 | 34.38 | 500 | 6.13 | 34.28 | 26.99 | 108 | 0.87 |
| 268 | 8.94 | 34.31 | 600 | 5.47 | 34.35 | 27.13 | 94 | 0.98 |
| 373 | 7.35 | 34.23 | | | | | | |
| 494 | 6.18 | 34.28 | | | | | | |
| 620 | 5.37 | 34.36 | | | | | | |

97.60

HORIZON; January 15, 1954; 1109 GCT; 31°14.5'N, 119°07.5'W; sounding, 1850 fm; wind, 270°, force 2; weather, partly cloudy; sea, moderate; wire angle, 20°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 14.29 | 33.20 | 0 | 14.29 | 33.20 | 24.76 | 320 | 0.00 |
| 10 | 14.24 | 33.23 | 10 | 14.24 | 33.23 | 24.79 | 317 | 0.03 |
| 29 | 14.10 | 33.22 | 20 | 14.17 | 33.23 | 24.81 | 315 | 0.06 |
| 39 | 13.48 | 33.14 | 30 | 14.07 | 33.22 | 24.82 | 314 | 0.10 |
| 48 | 12.86 | 33.19 | 50 | 12.72 | 33.21 | 25.09 | 289 | 0.15 |
| 58 | 12.16 | 33.27 | 75 | 10.70 | 33.26 | 25.50 | 249 | 0.22 |
| 68 | 11.00 | 33.18 | 100 | 9.08 | 33.54 | 25.98 | 204 | 0.28 |
| 77 | 10.62 | 33.32 | 150 | 8.60 | 33.80 | 26.26 | 177 | 0.38 |
| 86 | 9.90 | - | 200 | 8.16 | 34.03 | 26.51 | 153 | 0.46 |
| 95 | 9.26 | 33.49 | 250 | 7.48 | 34.04 | 26.62 | 143 | 0.54 |
| 119 | 8.90 | 33.68 | 300 | 6.90 | 34.09 | 26.74 | 131 | 0.61 |
| 146 | 8.63 | 33.78 | 400 | 6.22 | 34.24 | 26.95 | 111 | 0.73 |
| 191 | 8.28 | 34.03 | 500 | 5.75 | 34.35 | 27.09 | 98 | 0.84 |
| 245 | 7.54 | 34.04 | | | | | | |
| 339 | 6.60 | 34.13 | | | | | | |
| 453 | 5.96 | 34.31 | | | | | | |
| 577 | 5.46 | 34.40 | | | | | | |

| OBSERVED | | | | INTERPOLATED | | | | COMPUTED | | | SIO CCOFI 5401 |
|----------|---------|--------|------------------------|--------------|---------|--------|------------------------|-----------------------|---|--------------|----------------------|
| 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 | |

N. B. SCOFIELD; January 26, 1954; 1844 GCT; 22°06'N, 137°04'W; sounding, 950+ fm; wind, 080°, force 3; weather, drizzle; sea, moderate; wire angle, 14°.

| | | | | | | | | | | |
|-----|-------|--------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 21.05 | 34.88 | 5.05 | 0 | 21.05 | 34.88 | 5.05 | 24.41 | 353 | 0.00 |
| 88 | 20.36 | 35.04 | 5.10 | 10 | (21.00) | (34.90) | (5.05) | (24.44) | (350) | (0.04) |
| 116 | 18.63 | 34.83 | 5.11 | 20 | (20.94) | (34.93) | (5.06) | (24.45) | (349) | (0.07) |
| 136 | 18.27 | 35.42r | 4.98 | 30 | (20.88) | (34.95) | (5.06) | (24.50) | (344) | (0.10) |
| 155 | 18.22 | 34.81 | 4.92 | 50 | (20.74) | (34.99) | (5.07) | (24.58) | (337) | (0.17) |
| 174 | 17.83 | 34.98u | 4.86 | 75 | (20.54) | (35.03) | (5.09) | (24.67) | (328) | (0.26) |
| 193 | 17.04 | 34.69 | 4.68 | 100 | 19.82 | 34.99 | 5.11 | 24.82 | 314 | (0.34) |
| 212 | 15.15 | 34.34 | 4.66 | 150 | 18.70 | 34.83 | 4.93 | 24.99 | 298 | (0.49) |
| 221 | 13.88 | 34.16 | 4.61 | 200 | 16.50 | 34.59 | 4.65 | 25.34 | 264 | (0.64) |
| 231 | 13.30 | 34.13 | 4.55 | 250 | 12.13 | 34.07 | 4.51 | 25.86 | 215 | (0.76) |
| 240 | 12.88 | 34.14 | 4.58 | 300 | 9.62 | 34.06 | 3.85 | 26.30 | 173 | (0.86) |
| 260 | 11.42 | 34.00 | 4.28 | 400 | 7.89 | 34.24 | 1.20 | 26.71 | 134 | (1.02) |
| 288 | 9.97 | 34.03 | 4.06 | 500 | 6.79 | 34.33 | 0.43 | 26.94 | 112 | (1.15) |
| 382 | 8.16 | 34.22 | 1.68 | 600 | 6.07 | 34.42 | 0.46 | 27.11 | 96 | (1.26) |
| 476 | 7.01 | 34.31 | 0.42 | 700 | 5.47 | 34.44 | 0.47 | 27.20 | 88 | (1.36) |
| 573 | 6.25 | 34.41 | 0.47 | 800 | 4.94 | 34.46 | 0.48 | 27.28 | 80 | (1.45) |
| 763 | 5.12 | 34.45 | 0.48 | 1000 | (4.10) | (34.53) | (0.72) | (27.42) | (67) | (1.62) |
| 958 | 4.27 | 34.51 | 0.64 | | | | | | | |

97335
(17)

HORIZON; January 16, 1954; 0721 GCT; 31°42'N, 116°43.5'W; sounding, 55 fm; wind, 360°, force 1; weather, partly cloudy; sea, calm; wire angle, 02°.

| | | | | | | | | | | |
|----|-------|-------|--|----|-------|-------|--|-------|-----|------|
| 0 | 13.73 | 33.37 | | 0 | 13.73 | 33.37 | | 25.00 | 297 | 0.00 |
| 15 | 13.90 | 33.37 | | 10 | 13.91 | 33.37 | | 24.97 | 300 | 0.03 |
| 26 | 13.52 | - | | 20 | 13.72 | 33.37 | | 25.01 | 296 | 0.06 |
| 36 | 13.45 | 33.39 | | 30 | 13.49 | 33.39 | | 25.07 | 290 | 0.09 |
| 46 | 12.74 | 33.38 | | 50 | 12.68 | 33.40 | | 25.24 | 274 | 0.15 |
| 52 | 12.68 | 33.40 | | 75 | 11.76 | 33.48 | | 25.47 | 252 | 0.21 |
| 57 | 12.62 | 33.37 | | | | | | | | |
| 62 | 12.30 | 33.40 | | | | | | | | |
| 67 | 12.15 | - | | | | | | | | |
| 72 | 11.84 | 33.48 | | | | | | | | |
| 82 | 11.64 | 33.41 | | | | | | | | |

10029

HORIZON; January 16, 1954; 1754 GCT; 30°59'N, 118°10'W; sounding, 970 fm; wind, 360°, force 4; weather, partly cloudy; sea, moderate; wire angle, 22°.

✓ 10050

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 13.67 | 33.43 | | 0 | 13.67 | 33.43 | | 25.06 | 291 | 0.00 |
| 10 | 13.62 | 33.43 | | 10 | 13.62 | 33.43 | | 25.07 | 290 | 0.03 |
| 24 | 13.65 | 33.45 | | 20 | 13.64 | 33.45 | | 25.08 | 289 | 0.06 |
| 48 | 11.46 | 33.36 | | 30 | 13.32 | 33.44 | | 25.14 | 283 | 0.09 |
| 57 | 10.50 | 33.24 | | 50 | 11.22 | 33.34 | | 25.47 | 252 | 0.14 |
| 67 | 9.76 | 33.26 | | 75 | 9.43 | 33.47 | | 25.87 | 214 | 0.20 |
| 76 | 9.42 | 33.51 | | 100 | 9.28 | 33.71 | | 26.08 | 194 | 0.25 |
| 96 | 9.31 | 33.69 | | 150 | 8.50 | 33.87 | | 26.33 | 170 | 0.34 |
| 119 | 9.01 | - | | 200 | 8.00 | 34.08 | | 26.57 | 148 | 0.42 |
| 148 | 8.52 | 33.86 | | 250 | 7.54 | 34.10 | | 26.66 | 139 | 0.50 |
| 195 | 8.04 | 34.07 | | 300 | 7.20 | 34.16 | | 26.75 | 130 | 0.57 |
| 261 | 7.48 | 34.11 | | 400 | 6.48 | 34.24 | | 26.91 | 115 | 0.69 |
| 360 | 6.80 | 34.23 | | 500 | 5.80 | 34.27 | | 27.02 | 105 | 0.81 |
| 482 | 5.92 | 34.26 | | 600 | 5.34 | 34.35 | | 27.14 | 93 | 0.92 |
| 658 | 5.09 | 34.37 | | 700 | 4.90 | 34.39 | | 27.23 | 85 | 1.01 |
| 875 | 4.27 | 34.43 | | 800 | 4.50 | 34.41 | | 27.29 | 79 | 1.10 |
| 1177 | 3.56 | 34.53 | | 1000 | 3.92 | 34.48 | | 27.40 | 69 | 1.27 |

SIO

CCOFI
5401

| 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 | δ _T 10 ⁵ cm ³ /g |

100.70

HORIZON; January 17, 1954; 0409 GCT; 30°19.5'N, 119°27.5'W; sounding, 1410 fm; wind, 320°, force 4; weather, cloudy; sea, slight; wire angle, 05°.

| | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-----|------|
| 0 | 14.59 | 33.30 | 0 | 14.59 | 33.30 | 24.77 | 319 | 0.00 |
| 10 | 14.60 | 33.22 | 10 | 14.60 | 33.22 | 24.71 | 324 | 0.03 |
| 25 | 14.44 | 33.26 | 20 | 14.49 | 33.25 | 24.75 | 320 | 0.06 |
| 51 | 14.22 | 33.21 | 30 | 14.41 | 33.25 | 24.77 | 319 | 0.10 |
| 62 | 14.00 | 33.86 | 50 | 14.24 | 33.21 | 24.78 | 318 | 0.16 |
| 72 | 13.08 | 33.13 | 75 | 12.80 | 33.11 | 24.99 | 298 | 0.24 |
| 82 | 12.12 | 33.03 | 100 | 11.00 | 33.08 | 25.30 | 268 | 0.31 |
| 102 | 10.92 | 33.10 | 150 | 9.40 | 33.51 | 25.91 | 210 | 0.43 |
| 127 | 9.98 | - | 200 | 8.52 | 33.86 | 26.32 | 171 | 0.53 |
| 157 | 9.27 | 33.56 | 250 | 7.67 | 34.03 | 26.58 | 146 | 0.61 |
| 207 | 8.41 | 33.89 | 300 | 7.24 | 34.18 | 26.76 | 129 | 0.68 |
| 277 | 7.38 | 34.11 | 400 | 6.66 | 34.27 | 26.91 | 115 | 0.81 |
| 382 | 6.83 | 34.27 | 500 | 5.81 | 34.27 | 27.02 | 105 | 0.92 |
| 512 | 5.74 | 34.27 | 600 | 5.31 | 34.37 | 27.16 | 92 | 1.03 |
| 697 | 4.92 | 34.46 | 700 | 4.90 | 34.46 | 27.28 | 80 | 1.12 |
| 923 | 4.18 | 34.56 | 800 | 4.55 | 34.52 | 27.37 | 72 | 1.20 |
| 1231 | 3.42 | 34.60 | 1000 | 3.97 | 34.58 | 27.48 | 61 | 1.36 |
| | | | 1200 | 3.48 | 34.60 | 27.54 | 56 | 1.49 |

100.90

HORIZON; January 17, 1954; 1502 GCT; 29°34'N, 120°54'W; sounding, 2250 fm; wind, 240°, force 2; weather, partly cloudy; sea, smooth; wire angle, 07°.

| | | | | | | | | |
|------|-------|-------|------|----------------|-----------------|-----------------|----------------|--------|
| 0 | 15.22 | 33.30 | 0 | 15.22 | 33.30 | 24.64 | 331 | 0.00 |
| 10 | 15.20 | 33.31 | 10 | 15.20 | 33.31 | 24.65 | 330 | 0.03 |
| 25 | 15.22 | 33.31 | 20 | 15.21 | 33.31 | 24.64 | 331 | 0.07 |
| 51 | 15.22 | 33.30 | 30 | 15.23 | 33.31 | 24.64 | 331 | 0.10 |
| 61 | 15.20 | 33.30 | 50 | 15.22 | 33.30 | 24.64 | 331 | 0.17 |
| 72 | 15.02 | 33.27 | 75 | 14.97 | 33.27 | 24.67 | 328 | 0.25 |
| 82 | 14.70 | 33.30 | 100 | 13.04 | 33.15 | 24.97 | 300 | 0.33 |
| 102 | 12.93 | 33.15 | 150 | 9.94 | 33.24 | 25.61 | 239 | 0.46 |
| 127 | 11.52 | - | 200 | 8.15 <i>65</i> | 33.84 <i>BB</i> | 26.32 <i>32</i> | 107 <i>171</i> | 0.57 ✓ |
| 158 | 9.62 | 33.33 | 250 | 7.97 | 34.08 | 26.58 | 146 | 0.65 ✓ |
| 207 | 8.54 | 33.92 | 300 | 7.42 | 34.12 | 26.69 | 136 | 0.72 |
| 276 | 7.69 | 34.11 | 400 | 6.48 | 34.15 | 26.84 | 122 | 0.85 |
| 380 | 6.65 | 34.14 | 500 | 5.72 | 34.24 | 27.01 | 106 | 0.97 |
| 509 | 5.68 | 34.25 | 600 | 5.30 | 34.34 | 27.14 | 93 | 1.08 |
| 693 | 4.98 | 34.41 | 700 | 4.95 | 34.41 | 27.24 | 84 | 1.18 |
| 918 | 4.17 | 34.51 | 800 | 4.57 | 34.47 | 27.33 | 75 | 1.26 |
| 1226 | 3.38 | 34.58 | 1000 | 3.92 | 34.53 | 27.44 | 65 | 1.42 |

100.125
(1)

N. B. SCOFIELD; January 6, 1954; 2236 GCT; 28°30'N, 123°00'W; sounding, 1000+ fm; wind, 290°, force 3; weather, cloudy; sea, rough; wire angle, 25°.

| | | | | | | | | | | |
|-----|-------|--------|------|------|--------|---------|--------|---------|------|--------|
| 0 | 17.63 | 33.74 | 5.22 | 0 | 17.63 | 33.74 | 5.22 | 24.42 | 352 | 0.00 |
| 23 | 17.58 | 34.01u | 5.44 | 10 | 17.61 | 33.75 | 5.27 | 24.43 | 351 | 0.04 |
| 46 | 17.57 | 33.78 | 5.44 | 20 | 17.59 | 33.77 | 5.43 | 24.45 | 349 | 0.07 |
| 68 | 17.52 | 33.75 | 5.42 | 30 | 17.58 | 33.77 | 5.45 | 24.45 | 349 | 0.11 |
| 90 | 17.45 | 33.96u | 5.39 | 50 | 17.55 | 33.77 | 5.44 | 24.46 | 348 | 0.18 |
| 112 | 15.89 | 33.58 | 5.62 | 75 | 17.50 | 33.74 | 5.42 | 24.46 | 348 | 0.26 |
| 203 | 10.20 | 33.75 | 3.91 | 100 | 17.42 | 33.73 | 5.45 | 24.45 | 349 | 0.35 |
| 382 | 6.70 | 34.09 | 1.95 | 150 | 13.50 | 33.60 | 5.09 | 25.23 | 275 | 0.51 |
| 566 | 5.61 | 34.33 | 0.48 | 200 | 10.36 | 33.74 | 4.00 | 25.93 | 208 | 0.63 |
| 752 | 4.74 | 34.42 | 0.40 | 250 | 8.83 | 33.87 | 3.30 | 26.29 | 175 | 0.73 |
| 950 | 4.16 | 34.52 | 0.55 | 300 | 7.70 | 33.98 | 2.77 | 26.54 | 150 | 0.81 |
| | | | | 400 | 6.55 | 34.12 | 1.77 | 26.81 | 125 | 0.96 |
| | | | | 500 | 5.96 | 34.26 | 0.78 | 27.00 | 107 | 1.08 |
| | | | | 600 | 5.44 | 34.34 | 0.43 | 27.12 | 95 | 1.19 |
| | | | | 700 | 4.97 | 34.39 | 0.40 | 27.22 | 86 | 1.28 |
| | | | | 800 | 4.59 | 34.44 | 0.41 | 27.30 | 78 | 1.37 |
| | | | | 1000 | (4.03) | (34.54) | (0.62) | (27.44) | (65) | (1.54) |

| OBSERVED | | | | INTERPOLATED | | | | COMPUTED | | | SIO CCOFI 5401 | |
|--|---------|--------|------------------------|--------------|---------|---------|------------------------|-----------------------|---|-------------|----------------------|----------------|
| 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 | | |
| N. B. SCOFIELD; January 23, 1954; 1914 GCT; 24°03'N, 132°04'W; sounding, 950+ fm; wind, 070°, force 3; weather, overcast; sea, rough; wire angle, 00°. | | | | | | | | | | | | 100265 (15) |
| 0 | 19.02 | 34.75 | 5.03 | 0 | 19.02 | 34.75 | 5.03 | 24.84 | 312 | 0.00 | | |
| 70 | 19.26 | 34.90 | 5.01 | 10 | (19.01) | (34.75) | (5.03) | (24.85) | (311) | (0.03) | | |
| 79 | 19.30 | 34.93 | 5.14 | 20 | (19.00) | (34.75) | (5.03) | (24.85) | (311) | (0.06) | | |
| 89 | 19.25 | 34.88 | 5.20 | 30 | (19.00) | (34.75) | (5.03) | (24.85) | (311) | (0.09) | | |
| 98 | 19.26 | 34.85 | 5.18 | 50 | (19.00) | (34.75) | (5.03) | (24.85) | (311) | (0.16) | | |
| 108 | 19.24 | 34.86 | 5.18 | 75 | 19.30 | 34.93 | 5.06 | 24.91 | 305 | (0.23) | | |
| 118 | 18.04 | 34.60 | 5.20 | 100 | 19.25 | 34.85 | 5.16 | 24.86 | 310 | (0.31) | | |
| 127 | 17.49 | 34.54 | 5.22 | 150 | 17.04 | 34.48 | 5.11 | 25.12 | 285 | (0.46) | | |
| 157 | 16.90 | 34.94r | 5.04 | 200 | 13.20 | 33.99 | 4.83 | 25.59 | 241 | (0.60) | | |
| 176 | 15.22 | 34.29 | 4.97 | 250 | 9.98 | 33.93 | 4.06 | 26.15 | 188 | (0.71) | | |
| 197 | 13.50 | 34.02 | 4.85 | 300 | 8.82 | 34.06 | 3.74 | 26.43 | 161 | (0.80) | | |
| 215 | 12.00 | 33.91 | 4.69 | 400 | 6.82 | 34.21 | 2.38 | 26.84 | 122 | (0.94) | | |
| 244 | 10.14 | 33.91 | 4.15 | 500 | 5.79 | 34.25 | 1.04 | 27.01 | 106 | (1.06) | | |
| 293 | 8.99 | 34.04 | 3.80 | 600 | 5.22 | 34.30 | 0.55 | 27.11 | 96 | (1.17) | | |
| 390 | 6.98 | 34.20 | 2.53 | 700 | 4.87 | 34.38 | 0.58 | 27.22 | 86 | (1.27) | | |
| 586 | 5.28 | 34.29 | 0.54 | 800 | 4.58 | 34.46 | 0.64 | 27.32 | 76 | (1.36) | | |
| 783 | 4.64 | 34.44 | 0.63 | 1000 | (4.04) | (34.53) | (0.77) | (27.43) | (66) | (1.52) | | |
| 992 | 4.06 | 34.69r | 0.78 | | | | | | | | | |
| N. B. SCOFIELD; January 12, 1954; 1855 GCT; 26°07'N, 127°00'W; sounding, 950+ fm; wind, 320°, force 5; weather, partly cloudy; sea, high; wire angle, 14°. | | | | | | | | | | | | 102190 (7) |
| 0 | 17.98 | 34.18 | 5.43 | 0 | 17.98 | 34.18 | 5.43 | 24.67 | 328 | 0.00 | | |
| 77 | 17.96 | 34.10 | 5.44 | 10 | (17.98) | (34.18) | (5.43) | (24.67) | (328) | (0.03) | | |
| 88 | 17.92 | 34.10 | 5.44 | 20 | (17.98) | (34.18) | (5.43) | (24.66) | (329) | (0.07) | | |
| 97 | 16.84 | 34.09 | 5.58 | 30 | (17.98) | (34.18) | (5.43) | (24.66) | (329) | (0.10) | | |
| 107 | 16.98 | 34.22 | 5.45 | 50 | (17.98) | (34.15) | (5.43) | (24.64) | (331) | (0.16) | | |
| 116 | 16.86 | 34.22 | 5.35 | 75 | (17.96) | (34.10) | (5.44) | (24.62) | (333) | (0.25) | | |
| 126 | 16.69 | 34.23 | 5.30 | 100 | 16.88 | 34.13 | 5.56 | 24.90 | 306 | (0.33) | | |
| 135 | 16.34 | 34.25 | 5.20 | 150 | 15.66 | 34.17 | 5.18 | 25.21 | 277 | (0.48) | | |
| 145 | 15.96 | 34.20 | 5.21 | 200 | 11.76 | 33.96 | 4.89 | 25.85 | 216 | (0.60) | | |
| 193 | 12.06 | 33.96 | 4.94 | 250 | 9.64 | 33.96 | 4.49 | 26.23 | 180 | (0.70) | | |
| 288 | 8.56 | 33.99 | 4.03 | 300 | 8.27 | 34.01 | 3.83 | 26.47 | 157 | (0.79) | | |
| 384 | 7.10 | 34.11 | 2.25 | 400 | 6.97 | 34.14 | 2.00 | 26.77 | 129 | (0.94) | | |
| 479 | 6.44 | 34.25 | 1.07 | 500 | 6.26 | 34.26 | 0.90 | 26.95 | 111 | (1.06) | | |
| 566 | 5.73 | 34.29 | 0.55 | 600 | | | | | | | | |
| 759p | 4.88 | 34.69 | 0.41 | | | | | | | | | |
| 966 | 4.08 | 34.66u | 0.62 | | | | | | | | | |
| HORIZON; January 22, 1954; 0848 GCT; 31°05.5'N, 116°26'W; sounding, 48 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 12°. | | | | | | | | | | | | 103.30 |
| 0 | 13.59 | 33.35 | | 0 | 13.59 | 33.35 | | 25.02 | 295 | 0.00 | | |
| 15 | 13.59 | 33.33 | | 10 | 13.61 | 33.33 | | 25.00 | 297 | 0.03 | | |
| 25 | 13.51 | 33.33 | | 20 | 13.58 | 33.33 | | 25.00 | 297 | 0.06 | | |
| 35 | 12.28 | 33.36 | | 30 | 12.79 | 33.34 | | 25.17 | 280 | 0.09 | | |
| 40 | 12.08 | 33.38 | | 50 | 11.88 | 33.40 | | 25.39 | 260 | 0.14 | | |
| 45 | 11.91 | 33.42 | | 75 | (11.00) | (33.50) | | (25.63) | (237) | (0.20) | | |
| 50 | 11.88 | 33.40 | | | | | | | | | | |
| 55 | 11.86 | 33.42 | | | | | | | | | | |
| 60 | 11.84 | 33.40 | | | | | | | | | | |
| 70 | 11.31 | 33.46 | | | | | | | | | | |

SIO

CCOFI
5401

| | 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 |

10340

HORIZON; January 21, 1954; 0416 GCT; 30°45'N, 117°06'W; sounding, 1000 fm; wind, 320°, force 4; weather, partly cloudy; sea, very rough; wire angle, 10°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 15.03 | 33.41 | 0 | 15.03 | 33.41 | 24.76 | 320 | 0.00 |
| 10 | 15.02 | 33.42 | 10 | 15.02 | 33.42 | 24.77 | 319 | 0.03 |
| 30 | 15.00 | 33.42 | 20 | 15.03 | 33.42 | 24.77 | 319 | 0.06 |
| 45 | 14.43 | 33.36 | 30 | 15.00 | 33.42 | 24.78 | 318 | 0.10 |
| 61 | 11.80 | 33.12 | 50 | 13.63 | 33.28 | 24.96 | 300 | 0.16 |
| 71 | 11.22 | 33.20 | 75 | 11.08 | 33.24 | 25.41 | 258 | 0.23 |
| 81 | 10.88 | 33.29 | 100 | 10.38 | 33.54 | 25.77 | 223 | 0.29 |
| 97 | 10.42 | 33.52 | 150 | 9.02 | 33.85 | 26.24 | 179 | 0.39 |
| 107 | 10.30 | 33.57 | 200 | 9.18 | 34.12 | 26.42 | 162 | 0.48 |
| 122 | 9.74 | 33.69 | 250 | 8.34 | 34.19 | 26.61 | 144 | 0.56 |
| 152 | 9.02 | 33.86 | 300 | 7.73 | 34.24 | 26.74 | 131 | 0.63 |
| 182 | 9.30 | 34.07 | 400 | 7.15 | 34.33 | 26.89 | 117 | 0.76 |
| 242 | 8.46 | 34.18 | 500 | 6.20 | 34.34 | 27.03 | 104 | 0.87 |
| 312 | 7.62 | 34.25 | 600 | 5.55 | 34.35 | 27.12 | 95 | 0.98 |
| 431 | 6.90 | 34.34 | 700 | 5.11 | 34.39 | 27.20 | 88 | 1.08 |
| 571 | 5.70 | 34.34 | | | | | | |
| 713 | 5.06 | 34.40 | | | | | | |

10360

HORIZON; January 20, 1954; 1852 GCT; 30°01'N, 118°25'W; sounding, 2000 fm; wind, 290°, force 6; weather, cloudy; sea, high; wire angle, 32°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 14.56 | 33.32 | 0 | 14.56 | 33.32 | 24.79 | 317 | 0.00 |
| 9 | 14.54 | 33.37 | 10 | 14.55 | 33.37 | 24.83 | 313 | 0.03 |
| 26 | 14.54 | - | 20 | 14.55 | 33.34 | 24.81 | 315 | 0.06 |
| 40 | 14.54 | 33.31 | 30 | 14.55 | 33.32 | 24.79 | 317 | 0.09 |
| 52 | 14.53 | 33.31 | 50 | 14.55 | 33.31 | 24.79 | 317 | 0.16 |
| 61 | 13.95 | 33.24 | 75 | 11.32 | 33.20 | 25.34 | 264 | 0.23 |
| 70 | 11.89 | 33.19 | 100 | 11.12 | 33.69 | 25.75 | 225 | 0.29 |
| 82 | 11.20 | 33.33 | 150 | 10.57 | 34.14 | 26.20 | 183 | 0.40 |
| 91 | 11.27 | - | 200 | 10.04 | 34.24 | 26.37 | 166 | 0.48 |
| 104 | 11.07 | 33.77 | 250 | 9.43 | 34.33 | 26.54 | 150 | 0.57 |
| 129 | 11.02 | 34.02 | 300 | 8.72 | 34.34 | 26.67 | 138 | 0.64 |
| 155 | 10.63 | 34.16 | 400 | 7.72 | 34.34 | 26.82 | 124 | 0.78 |
| 207 | 9.99 | 34.25 | 500 | 6.78 | 34.34 | 26.95 | 111 | 0.90 |
| 269 | 9.21 | 34.34 | 600 | 5.98 | 34.35 | 27.06 | 101 | 1.02 |
| 376 | 7.98 | 34.34 | | | | | | |
| 515 | 6.66 | 34.34 | | | | | | |
| 669 | 5.51 | 34.36 | | | | | | |

10735

HORIZON; January 19, 1954; 2149 GCT; 30°20.5'N, 116°22'W; sounding, 1000 fm; wind, 220°, force 6; weather, cloudy; sea, slight; wire angle, 34°.

| | | | | | | | | |
|-----|-------|-------|-----|--------|---------|---------|-------|--------|
| 0 | 14.67 | 33.48 | 0 | 14.67 | 33.48 | 24.89 | 307 | 0.00 |
| 9 | 14.58 | 33.40 | 10 | 14.56 | 33.39 | 24.85 | 311 | 0.03 |
| 25 | 14.21 | 33.29 | 20 | 14.32 | 33.31 | 24.84 | 312 | 0.06 |
| 33 | 14.21 | 33.38 | 30 | 14.20 | 33.34 | 24.88 | 308 | 0.09 |
| 42 | 14.25 | 33.37 | 50 | 14.21 | 33.45 | 24.97 | 300 | 0.15 |
| 50 | 14.21 | 33.45 | 75 | 11.70 | 33.25 | 25.31 | 267 | 0.22 |
| 58 | 13.31 | 33.35 | 100 | 10.28 | 33.44 | 25.71 | 229 | 0.29 |
| 66 | 12.50 | 33.28 | 150 | 9.11 | 33.81 | 26.19 | 184 | 0.39 |
| 74 | 11.81 | - | 200 | 9.57 | 34.25 | 26.46 | 158 | 0.48 |
| 81 | 11.08 | 33.25 | 250 | 9.21 | 34.34 | 26.59 | 146 | 0.56 |
| 99 | 10.30 | 33.42 | 300 | 8.70 | 34.35 | 26.68 | 137 | 0.63 |
| 121 | 9.94 | 33.67 | 400 | 7.51 | 34.36 | 26.86 | 120 | 0.77 |
| 154 | 9.09 | 33.84 | 500 | (6.25) | (34.40) | (27.07) | (100) | (0.88) |
| 191 | 9.58 | 34.21 | | | | | | |
| 266 | 9.05 | 34.35 | | | | | | |
| 363 | 8.00 | 34.35 | | | | | | |
| 474 | 6.54 | 34.39 | | | | | | |

| 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 |

HORIZON; January 20, 1954; 0703 GCT; 29°48'N, 117°23'W; sounding, 1500 fm; wind, 200°, force 6; weather, partly cloudy; sea, very rough; wire angle, 22°.

| | | | | | | | | | | |
|-----|-------|---------------------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 14.46 | 33.41 | | 0 | 14.46 | 33.41 | | 24.88 | 308 | 0.00 |
| 9 | 14.44 | 33.40 | | 10 | 14.43 | 33.40 | | 24.88 | 308 | 0.03 |
| 28 | 14.46 | 33.36 | | 20 | 14.44 | 33.37 | | 24.86 | 310 | 0.06 |
| 43 | 14.40 | 33.39 | | 30 | 14.46 | 33.36 | | 24.84 | 312 | 0.09 |
| 57 | 12.58 | 33.22 | | 50 | 13.73 | 33.34 | | 24.98 | 299 | 0.15 |
| 67 | 11.58 | 33.18 | | 75 | 10.98 | 33.33 | | 25.50 | 249 | 0.22 |
| 76 | 10.92 | 33.34 | | 100 | 10.05 | 33.46 | | 25.76 | 224 | 0.28 |
| 90 | 10.44 | 33.40 | | 150 | 9.01 | 33.81 | | 26.21 | 182 | 0.38 |
| 99 | 10.08 | - | | 200 | 8.91 | 34.12 | | 26.46 | 158 | 0.47 |
| 113 | 9.86 | 33.56 | | 250 | 8.79 | 34.29 | | 26.62 | 143 | 0.55 |
| 140 | 9.17 | 33.75 | | 300 | 8.26 | 34.31 | | 26.71 | 134 | 0.62 |
| 168 | 8.86 | 33.93 | | 400 | 7.12 | 34.26 | | 26.84 | 122 | 0.75 |
| 222 | 8.92 | 34.23 | | 500 | 6.25 | 34.30 | | 26.99 | 108 | 0.88 |
| 286 | 8.42 | 34.31 | | 600 | 5.58 | 34.36 | | 27.12 | 95 | 0.98 |
| 396 | 7.18 | 34.26 | | | | | | | | |
| 528 | 6.06 | 34.96 ^{a)} | | | | | | | | |
| 661 | 5.20 | 34.40 | | | | | | | | |

N. B. SCOFIELD; January 24, 1954; 1906, 1932 GCT; 22°05'N, 132°03'W; sounding, 950+ fm; wind, 070°, force 2; weather, cloudy; sea, moderate; wire angle, 10°, 14°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 19.22 | 34.74 | 5.25 | 0 | 19.22 | 34.74 | 5.25 | 24.79 | 317 | 0.00 |
| 79 | 19.32 | 34.82 | 5.23 | 10 | (19.24) | (34.74) | (5.25) | (24.79) | (317) | (0.03) |
| 118 | 18.46 | 34.71 | 5.17 | 20 | (19.26) | (34.76) | (5.25) | (24.79) | (317) | (0.06) |
| 128 | 18.19 | 34.88 | 5.06 | 30 | (19.28) | (34.78) | (5.25) | (24.80) | (316) | (0.10) |
| 138 | 18.17 | 34.79 | 5.02 | 50 | (19.30) | (34.79) | (5.25) | (24.80) | (316) | (0.16) |
| 177 | 17.34 | 34.80 | 4.87 | 75 | (19.33) | (34.81) | (5.25) | (24.81) | (315) | (0.24) |
| 197 | 15.56 | 34.68 | 4.84 | 100 | 19.32 | 34.82 | 5.21 | 24.82 | 314 | (0.32) |
| | | | | 150 | 18.10 | 34.79 | 4.98 | 25.10 | 287 | (0.47) |
| 208 | 14.36 | 34.36 | 4.81 | 200 | 15.20 | 34.59 | 4.84 | 25.63 | 237 | (0.60) |
| 227 | 12.16 | 34.00 | 4.64 | 250 | 10.26 | 34.01 | 3.83 | 26.15 | 187 | (0.71) |
| 246 | 10.39 | 33.98 | 3.96 | 300 | 8.96 | 34.16 | 2.85 | 26.49 | 155 | (0.80) |
| 265 | 9.90 | 34.09 | 3.49 | 400 | 7.54 | 34.34 | 2.17 | 26.84 | 122 | (0.94) |
| 282 | 9.41 | 34.14 | 3.03 | 500 | 6.47 | 34.35 | 0.52 | 27.00 | 107 | (1.06) |
| 330 | 8.36 | 34.20 | 2.65 | 600 | 5.70 | 34.40 | 0.46 | 27.14 | 93 | (1.17) |
| 377 | 7.78 | 34.34 | 1.42 | 700 | 5.33 | 34.48 | 0.51 | 27.25 | 83 | (1.27) |
| 471 | 6.82 | 34.34 | 0.65 | 800 | 4.96 | 34.51 | 0.58 | 27.32 | 76 | (1.36) |
| 566 | 5.84 | 34.38 | 0.42 | 1000 | (4.23) | (34.52) | (0.73) | (27.40) | (69) | (1.52) |
| 760 | 5.10 | 34.51 | 0.55 | | | | | | | |
| 958 | 4.38 | 34.52 | 0.70 | | | | | | | |

HORIZON; January 19, 1954; 1504 GCT; 29°51'N, 115°51.5'W; sounding, 35 fm; wind, 240°, force 4; weather, drizzle; sea, moderate; wire angle, 00°.

| | | | | | | | | | | |
|----|-------|-------|--|----|-------|-------|--|-------|-----|------|
| 0 | 14.68 | 33.41 | | 0 | 14.68 | 33.41 | | 24.84 | 312 | 0.00 |
| 10 | 14.63 | 33.47 | | 10 | 14.63 | 33.47 | | 24.89 | 307 | 0.03 |
| 15 | 14.55 | 33.47 | | 20 | 14.50 | 33.48 | | 24.93 | 303 | 0.06 |
| 20 | 14.50 | 33.48 | | 30 | 13.81 | 33.36 | | 24.98 | 299 | 0.09 |
| 26 | 14.16 | 33.41 | | 50 | 12.59 | 33.44 | | 25.29 | 269 | 0.15 |
| 31 | 13.76 | 33.35 | | | | | | | | |
| 36 | 13.65 | 33.35 | | | | | | | | |
| 41 | 13.24 | 33.36 | | | | | | | | |
| 51 | 12.52 | 33.45 | | | | | | | | |

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

SIO
CCOFI
5401

107.50

108.280
(16)

110.33

SIO

CCOFI
5401

| 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 |

II040

HORIZON; January 19, 1954; 1034 GCT; 29°37'N, 116°18.5'W; sounding, 1400 fm; wind, 240°, force 2; weather, rain; sea, slight; wire angle, 16°.

| | | | | | | | | | |
|------|-------|--------|------|-------|-------|--|-------|-----|------|
| 0 | 15.57 | 33.48 | 0 | 15.57 | 33.48 | | 24.70 | 325 | 0.00 |
| 9 | 15.56 | 33.45 | 10 | 15.57 | 33.45 | | 24.67 | 328 | 0.03 |
| 25 | 15.56 | 33.48 | 20 | 15.57 | 33.47 | | 24.69 | 326 | 0.06 |
| 50 | 15.54 | 33.48 | 30 | 15.55 | 33.48 | | 24.70 | 325 | 0.10 |
| 60 | 15.54 | 33.44 | 50 | 15.54 | 33.48 | | 24.70 | 325 | 0.16 |
| 70 | 15.06 | 33.35 | 75 | 14.25 | 33.28 | | 24.83 | 313 | 0.24 |
| 81 | 12.98 | 33.22 | 100 | 12.45 | 33.31 | | 25.21 | 277 | 0.32 |
| 101 | 12.42 | 33.32 | 150 | 9.76 | 34.25 | | 26.43 | 161 | 0.43 |
| 124 | 10.81 | 33.68 | 200 | 9.90 | 34.27 | | 26.42 | 162 | 0.51 |
| 153 | 9.76 | 34.25u | 250 | 9.33 | 34.38 | | 26.60 | 145 | 0.59 |
| 202 | 9.89 | 34.27 | 300 | 8.66 | 34.39 | | 26.71 | 134 | 0.66 |
| 271 | 8.99 | 34.40 | 400 | 7.62 | 34.35 | | 26.84 | 122 | 0.80 |
| 373 | 7.96 | - | 500 | 6.52 | 34.34 | | 26.99 | 108 | 0.92 |
| 498 | 6.54 | 34.34 | 600 | 5.81 | 34.38 | | 27.11 | 96 | 1.03 |
| 680 | 5.36 | 34.40 | 700 | 5.27 | 34.40 | | 27.19 | 89 | 1.13 |
| 901 | 4.34 | 34.43 | 800 | 4.79 | 34.41 | | 27.25 | 83 | 1.22 |
| 1207 | 3.42 | 34.51 | 1000 | 4.02 | 34.45 | | 27.37 | 72 | 1.39 |

II060

HORIZON; January 18-19, 1954; 2342, 0008 GCT; 28°56'N, 117°39.5'W; sounding, 2000 fm; wind, 320°, force 1; weather, cloudy; sea, moderate; wire angle, 12°, 10°.

| | | | | | | | | | |
|------|-------|--------|------|-------|-------|--|-------|-----|------|
| 0 | 15.47 | 33.44 | 0 | 15.47 | 33.44 | | 24.69 | 326 | 0.00 |
| 10 | 15.30 | 33.61r | 10 | 15.30 | 33.43 | | 24.72 | 323 | 0.03 |
| 24 | 15.24 | 33.42 | 20 | 15.25 | 33.42 | | 24.72 | 323 | 0.06 |
| 50 | 15.24 | 33.53 | 30 | 15.24 | 33.44 | | 24.74 | 321 | 0.10 |
| 60 | 14.62 | 33.40 | 50 | 15.24 | 33.53 | | 24.81 | 315 | 0.16 |
| 70 | 12.53 | 33.12r | 75 | 12.41 | 33.39 | | 25.28 | 270 | 0.24 |
| 80 | 12.24 | 33.39 | 100 | 11.06 | 33.45 | | 25.58 | 242 | 0.30 |
| 101 | 11.00 | 33.46 | 150 | 9.04 | 33.80 | | 26.19 | 184 | 0.41 |
| 125 | 9.60 | - | 200 | 8.95 | 34.06 | | 26.41 | 163 | 0.50 |
| 154 | 9.02 | 34.82 | 250 | 8.53 | 34.18 | | 26.57 | 148 | 0.57 |
| 202 | 8.96 | 34.07 | 300 | 7.80 | 34.20 | | 26.70 | 135 | 0.65 |
| | | | 400 | 6.89 | 34.22 | | 26.84 | 122 | 0.78 |
| 268 | 8.32 | 34.20 | 500 | 6.47 | 34.37 | | 27.02 | 105 | 0.90 |
| 371 | 7.04 | 34.20 | 600 | 5.77 | 34.42 | | 27.14 | 93 | 1.01 |
| 499 | 6.48 | 34.37 | 700 | 5.22 | 34.46 | | 27.24 | 84 | 1.10 |
| 680 | 5.32 | 34.45 | 800 | 4.79 | 34.49 | | 27.32 | 76 | 1.19 |
| 904 | 4.39 | 34.51 | 1000 | 4.08 | 34.52 | | 27.42 | 67 | 1.35 |
| 1213 | 3.46 | 34.52 | | | | | | | |

| 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 |

HORIZON; January 18, 1954; 1400 GCT; 28°19.5'N, 118°54'W; sounding, 1650 fm; wind, 310°, force 2; weather, cloudy; sea, slight; wire angle, 07°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 14.62 | 33.23 | | 0 | 14.62 | 33.23 | | 24.71 | 324 | 0.00 |
| 10 | 14.62 | 33.29 | | 10 | 14.62 | 33.29 | | 24.76 | 319 | 0.03 |
| 25 | 14.63 | 33.22 | | 20 | 14.62 | 33.23 | | 24.71 | 324 | 0.06 |
| 51 | 14.62 | 33.24 | | 30 | 14.62 | 33.22 | | 24.70 | 325 | 0.10 |
| 61 | 14.45 | 33.27 | | 50 | 14.62 | 33.24 | | 24.72 | 323 | 0.16 |
| 71 | 14.20 | 33.22 | | 75 | 13.82 | 33.20 | | 24.86 | 310 | 0.24 |
| 82 | 12.88 | 33.18 | | 100 | 11.44 | 33.16 | | 25.29 | 269 | 0.32 |
| 102 | 11.37 | 33.16 | | 150 | 9.55 | 33.60 | | 25.96 | 205 | 0.44 |
| 127 | 10.60 | - | | 200 | 8.42 | 33.96 | | 26.42 | 162 | 0.53 |
| 157 | 9.30 | 33.68 | | 250 | 7.91 | 34.10 | | 26.60 | 145 | 0.61 |
| 206 | 8.36 | 33.99 | | 300 | 7.43 | 34.13 | | 26.69 | 136 | 0.68 |
| 275 | 7.69 | 34.12 | | 400 | 6.61 | 34.16 | | 26.83 | 123 | 0.81 |
| 379 | 6.79 | 34.14 | | 500 | 5.97 | 34.34 | | 27.06 | 101 | 0.93 |
| 508 | 5.92 | 34.35 | | 600 | 5.40 | 34.39 | | 27.17 | 91 | 1.04 |
| 692 | 5.00 | 34.42 | | 700 | 4.98 | 34.42 | | 27.24 | 84 | 1.13 |
| 917 | 4.29 | 34.48 | | 800 | 4.65 | 34.45 | | 27.30 | 78 | 1.22 |
| 1223 | 3.41 | 34.57 | | 1000 | 4.04 | 34.50 | | 27.41 | 68 | 1.38 |
| | | | | 1200 | 3.45 | 34.56 | | 27.51 | 58 | 1.53 |

II0.80 ✓

HORIZON; January 18, 1954; 0435 GCT; 27°31'N, 120°05.5'W; sounding, 1650 fm; wind, 090°, force 2; weather, partly cloudy; sea, slight; wire angle, 12°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 16.3 | 33.44 | | 0 | 16.3 | 33.44 | | 24.50 | 344 | 0.00 |
| 10 | 16.31 | 33.45 | | 10 | 16.31 | 33.45 | | 24.51 | 343 | 0.03 |
| 25 | 16.30 | 33.40 | | 20 | 16.30 | 33.40 | | 24.47 | 347 | 0.07 |
| 50 | 16.30 | 33.40 | | 30 | 16.30 | 33.40 | | 24.47 | 347 | 0.10 |
| 60 | 16.28 | 33.40 | | 50 | 16.30 | 33.40 | | 24.47 | 347 | 0.17 |
| 70 | 16.24 | 33.44 | | 75 | 16.28 | 33.44 | | 24.51 | 343 | 0.26 |
| 80 | 16.29 | 33.42 | | 100 | 14.57 | 33.34 | | 24.81 | 315 | 0.34 |
| 100 | 14.57 | 33.34 | | 150 | 11.01 | 33.50 | | 25.63 | 237 | 0.48 |
| 125 | 12.84 | - | | 200 | 10.08 | 33.94 | | 26.13 | 189 | 0.59 |
| 154 | 10.90 | 33.53 | | 250 | 9.13 | 34.17 | | 26.47 | 157 | 0.68 |
| 203 | 10.02 | 33.96 | | 300 | 8.70 | 34.26 | | 26.61 | 144 | 0.76 |
| 271 | 8.92 | 34.22 | | 400 | 7.71 | 34.33 | | 26.81 | 125 | 0.90 |
| 374 | 8.13 | 34.32 | | 500 | 6.55 | 34.35 | | 26.99 | 108 | 1.02 |
| 502 | 6.54 | 34.35 | | 600 | 5.92 | 34.39 | | 27.10 | 97 | 1.13 |
| 685 | 5.44 | 34.42 | | 700 | 5.36 | 34.46 | | 27.23 | 85 | 1.23 |
| 908 | 4.46 | 34.51 | | 800 | 4.89 | 34.47 | | 27.29 | 79 | 1.32 |
| 1214 | 3.54 | 34.59 | | 1000 | 4.15 | 34.54 | | 27.43 | 66 | 1.48 |

II0100

N. B. SCOFIELD; January 7, 1954; 1305 GCT; 26°29'N, 122°45'W; sounding, 1000+ fm; wind, 290°, force 3; weather, clear; sea, slight; wire angle, 07°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 17.70 | 33.68 | 5.48 | 0 | 17.70 | 33.68 | 5.48 | 24.36 | 358 | 0.00 |
| 79 | 17.78 | 33.68 | 5.45 | 10 | (17.72) | (33.68) | (5.48) | (24.35) | (359) | (0.04) |
| 89 | 17.64 | 33.68 | 5.46 | 20 | (17.73) | (33.68) | (5.47) | (24.35) | (359) | (0.07) |
| 99 | 15.04 | 33.47 | 5.75 | 30 | (17.75) | (33.68) | (5.46) | (24.34) | (360) | (0.11) |
| 108 | 14.56 | 33.45 | 5.69 | 50 | (17.78) | (33.68) | (5.46) | (24.34) | (360) | (0.18) |
| 118 | 13.79 | 33.45 | 5.48 | 75 | (17.80) | (33.68) | (5.45) | (24.33) | (360) | (0.27) |
| 147 | 11.54 | 33.73 | 4.72 | 100 | 15.05 | 33.47 | 5.74 | 24.80 | 316 | (0.36) |
| 172 | 10.32 | 33.73 | 3.81 | 150 | 11.39 | 33.73 | 4.60 | 25.74 | 226 | (0.49) |
| 196 | 9.98 | 34.00 | 2.84 | 200 | 9.87 | 34.02 | 2.79 | 26.23 | 180 | (0.60) |
| 245 | 9.08 | 34.16 | 2.39 | 250 | 9.02 | 34.17 | 2.30 | 26.49 | 155 | (0.68) |
| 391 | 7.68 | 34.33 | 0.76 | 300 | 8.54 | 34.24 | 2.49 | 26.62 | 143 | (0.76) |
| 488 | 6.70 | 34.36 | 0.48 | 400 | 7.60 | 34.34 | 0.72 | 26.83 | 123 | (0.90) |
| 586 | 5.94 | 34.38 | 0.34 | 500 | 6.59 | 34.36 | 0.43 | 26.99 | 108 | (1.02) |
| 781 | 4.98 | 34.42 | 0.37 | 600 | 5.86 | 34.38 | 0.33 | 27.10 | 97 | (1.13) |
| 978 | 4.23 | 34.52 | 0.55 | 700 | 5.33 | 34.40 | 0.33 | 27.18 | 90 | (1.23) |
| | | | | 800 | 4.90 | 34.43 | 0.37 | 27.26 | 82 | (1.32) |
| | | | | 1000 | (4.15) | (34.53) | (0.57) | (27.42) | (67) | (1.49) |

II0140 (2)

SIO

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5401

| 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 |

II0205
(6)

N. B. SCOFIELD; January 11, 1954; 1813 GCT; 24°07'N, 127°00'W; sounding, 950+ fm; wind, 020°, force 3; weather, cloudy; sea, rough; wire angle, 10°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 19.12 | 34.65 | 5.14 | 0 | 19.12 | 34.65 | 5.14 | 24.74 | 321 | 0.00 |
| 138 | 16.68 | 34.12 | 5.33 | 10 | (19.10) | (34.65) | (5.16) | (24.75) | (320) | (0.03) |
| 148 | 16.07 | 34.09 | 5.26 | 20 | (19.09) | (34.65) | (5.17) | (24.75) | (320) | (0.06) |
| 157 | 15.46 | 34.01 | 5.23 | 30 | (19.08) | (34.64) | (5.20) | (24.75) | (320) | (0.10) |
| 167 | 14.32 | 33.89 | 5.09 | 50 | (19.05) | (34.64) | (5.23) | (24.75) | (320) | (0.16) |
| 177 | 13.37 | 33.86 | 4.95 | 75 | (19.02) | (34.63) | (5.27) | (24.75) | (320) | (0.24) |
| 186 | 12.78 | 33.86 | 4.91 | 100 | (18.98) | (34.62) | (5.32) | (24.76) | (320) | (0.32) |
| 196 | 11.90 | 33.86 | 4.71 | 150 | 15.95 | 34.08 | 5.23 | 25.07 | 290 | (0.48) |
| 216 | 10.84 | 33.81 | 4.36 | 200 | 11.68 | 33.85 | 4.61 | 25.78 | 222 | (0.61) |
| 244 | 9.74 | 33.96 | 3.46 | 250 | 9.68 | (33.97) | 3.25 | (26.23) | (180) | (0.71) |
| 293 | 9.06 | | 2.22 | 300 | 8.97 | | | 2.17 | | |
| 391 | 7.77 | | 1.58 | 400 | 7.66 | | | 1.48 | | |
| 489 | 6.62 | | 0.59 | 500 | 6.51 | | | 0.53 | | |
| 587 | 5.74 | | 0.32 | 600 | 5.66 | | | 0.33 | | |
| 782 | 4.75 | | 0.46 | 700 | 5.11 | | | 0.39 | | |
| 982 | 4.06 | | 0.65 | 800 | 4.67 | | | 0.47 | | |
| | | | | 1000 | (3.99) | | | (0.67) | | |

II335

CREST; January 20, 1954; 1203 GCT; 29°12'N, 115°39'W; sounding, 750 fm; wind, 250°, force 5; weather, partly cloudy; sea, high; wire angle, 19°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 15.3 | 33.40 | | 0 | 15.3 | 33.40 | | 24.69 | 326 | 0.00 |
| 10 | 15.10 | 33.40 | | 10 | 15.10 | 33.40 | | 24.74 | 321 | 0.03 |
| 29 | 14.26 | 33.43 | | 20 | 14.70 | 33.41 | | 24.83 | 313 | 0.06 |
| 44 | 14.00 | 33.49 | | 30 | 14.25 | 33.43 | | 24.94 | 302 | 0.10 |
| 53 | 14.02 | 33.53 | | 50 | 14.02 | 33.52 | | 25.06 | 291 | 0.15 |
| 63 | 14.00 | 33.51 | | 75 | 13.43 | 33.51 | | 25.17 | 280 | 0.23 |
| 73 | 13.63 | 33.51 | | 100 | 11.90 | 33.66 | | 25.59 | 240 | 0.29 |
| 83 | 12.34 | 33.38 | | 150 | 10.34 | 34.01 | | 26.14 | 188 | 0.40 |
| 97 | 12.08 | 33.66 | | 200 | 9.40 | 34.13 | | 26.39 | 164 | 0.49 |
| 106 | 11.50 | 33.66 | | 250 | 9.24 | 34.26 | | 26.52 | 152 | 0.57 |
| 130 | 10.88 | 33.89 | | 300 | 8.96 | 34.34 | | 26.63 | 142 | 0.65 |
| 158 | 10.14 | 34.04 | | 400 | 7.86 | 34.38 | | 26.83 | 123 | 0.79 |
| 209 | 9.33 | 34.15 | | 500 | 6.78 | 34.36 | | 26.97 | 110 | 0.91 |
| 271 | 9.16 | 34.31 | | 600 | 6.00 | 34.37 | | 27.08 | 99 | 1.02 |
| 379 | 8.12 | 34.38 | | | | | | | | |
| 505 | 6.74 | 34.36 | | | | | | | | |
| 638 | 5.78 | 34.38 | | | | | | | | |

II350

CREST; January 20, 1954; 0504 GCT; 28°42'N, 116°37'W; sounding, 1900 fm; wind, 250°, force 5; weather, rain showers; sea, rough; wire angle, 23°.

| | | | | | | | | | | |
|-----|-------|--------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 16.0 | 33.43 | | 0 | 16.0 | 33.43 | | 24.56 | 339 | 0.00 |
| 10 | 15.78 | 33.63r | | 10 | 15.78 | 33.45 | | 24.63 | 332 | 0.03 |
| 28 | 15.82 | 33.46 | | 20 | 15.82 | 33.46 | | 24.63 | 332 | 0.07 |
| 43 | 15.82 | 33.45 | | 30 | 15.83 | 33.46 | | 24.62 | 333 | 0.10 |
| 52 | 15.82 | 33.47 | | 50 | 15.83 | 33.46 | | 24.62 | 333 | 0.17 |
| 62 | 15.81 | 33.46 | | 75 | 14.70 | 33.36 | | 24.79 | 317 | 0.25 |
| 72 | 15.29 | 33.41 | | 100 | 12.30 | 33.11 | | 25.09 | 288 | 0.32 |
| 82 | 13.76 | 33.17 | | 150 | 9.90 | 33.40 | | 25.74 | 226 | 0.46 |
| 96 | 12.64 | 33.11 | | 200 | 9.15 | 33.87 | | 26.23 | 180 | 0.56 |
| 105 | 11.90 | 33.11 | | 250 | 8.94 | 34.20 | | 26.52 | 152 | 0.64 |
| 128 | 10.94 | 33.24 | | 300 | 8.40 | 34.23 | | 26.63 | 142 | 0.72 |
| 156 | 9.02 | 33.45 | | 400 | 6.75 | 34.16 | | 26.81 | 125 | 0.86 |
| 207 | 9.12 | 33.96 | | 500 | 5.92 | 34.21 | | 26.96 | 110 | 0.98 |
| 269 | 8.86 | 34.23 | | 600 | 5.66 | 34.36 | | 27.11 | 96 | 1.09 |
| 378 | 7.00 | 34.16 | | | | | | | | |
| 499 | 5.93 | 34.21 | | | | | | | | |
| 631 | 5.59 | 34.38 | | | | | | | | |

| 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 |

| | | | | | | | | | | |
|---|-------|-------|--|----|-------|-------|--|-------|-----|------|
| CREST; January 19, 1954; 1416 GCT; 28°46'N, 114°55'W; sounding, 55 fm; wind, 180°, force 2; weather, rain showers; sea, slight; wire angle, 00°. | | | | | | | | 11730 | | |
| 0 | 15.88 | 33.64 | | 0 | 15.88 | 33.64 | | 24.75 | 320 | 0.00 |
| 10 | 15.89 | 33.63 | | 10 | 15.89 | 33.63 | | 24.74 | 321 | 0.03 |
| 15 | 15.88 | 33.63 | | 20 | 15.90 | 33.62 | | 24.73 | 322 | 0.06 |
| 20 | 15.90 | 33.62 | | 30 | 15.89 | 33.64 | | 24.75 | 320 | 0.10 |
| 25 | 15.89 | 33.63 | | 50 | 15.90 | 33.64 | | 24.75 | 320 | 0.16 |
| 30 | 15.89 | 33.64 | | 75 | 14.90 | 33.60 | | 24.94 | 302 | 0.24 |
| 36 | 15.90 | 33.62 | | | | | | | | |
| 41 | 15.88 | 33.64 | | | | | | | | |
| 56 | 15.88 | 33.64 | | | | | | | | |
| 67 | 15.50 | 33.62 | | | | | | | | |
| 82 | 14.04 | 33.58 | | | | | | | | |

| | | | | | | | | | | |
|---|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| CREST; January 19, 1954; 1933 GCT; 28°28.5'N, 115°35'W; sounding, 380 fm; wind, 220°, force 4; weather, cloudy; sea, rough; wire angle, 09°. | | | | | | | | 11740 | | |
| 0 | 16.1 | 33.49 | | 0 | 16.1 | 33.49 | | 24.58 | 337 | 0.00 |
| 11 | 15.96 | 33.49 | | 10 | 15.97 | 33.49 | | 24.61 | 334 | 0.03 |
| 30 | 15.96 | 33.49 | | 20 | 15.94 | 33.49 | | 24.62 | 333 | 0.07 |
| 46 | 15.86 | 33.48 | | 30 | 15.96 | 33.49 | | 24.62 | 333 | 0.10 |
| 56 | 15.83 | 33.38 | | 50 | 15.85 | 33.47 | | 24.63 | 332 | 0.17 |
| 65 | 14.67 | 33.26 | | 75 | 13.38 | 33.40 | | 25.10 | 287 | 0.24 |
| 76 | 13.37 | 33.45 | | 100 | 11.58 | 33.55 | | 25.56 | 243 | 0.31 |
| 86 | 13.16 | 33.54 | | 150 | 9.80 | 33.80 | | 26.07 | 195 | 0.42 |
| 100 | 11.58 | 33.55 | | 200 | 9.93 | 34.30 | | 26.44 | 160 | 0.51 |
| 111 | 10.40 | 33.46 | | 250 | 9.50 | 34.38 | | 26.57 | 148 | 0.59 |
| 135 | 9.70 | 33.60 | | 300 | 8.93 | 34.39 | | 26.67 | 138 | 0.67 |
| 165 | 10.02 | 34.04 | | 400 | 7.88 | 34.37 | | 26.82 | 124 | 0.80 |
| 219 | 9.82 | 34.35 | | 500 | 6.80 | 34.46 | | 27.04 | 103 | 0.92 |
| 282 | 9.12 | 34.39 | | 600 | 5.98 | 34.43 | | 27.13 | 94 | 1.03 |
| 396 | 7.94 | 34.37 | | | | | | | | |
| 524 | 6.58 | 34.46 | | | | | | | | |
| 659 | 5.50 | 34.41 | | | | | | | | |

| | | | | | | | | | | |
|--|-------|-------|--|----|-------|-------|--|--------|-----|------|
| CREST; January 19, 1954; 0837 GCT; 28°23'N, 114°14'W; sounding, 33 fm; wind, calm; weather, cloudy; sea, calm; wire angle, 00°. | | | | | | | | 120.25 | | |
| 0 | 15.73 | 33.67 | | 0 | 15.73 | 33.67 | | 24.81 | 315 | 0.00 |
| 10 | 15.76 | 33.68 | | 10 | 15.76 | 33.68 | | 24.81 | 315 | 0.03 |
| 16 | 15.73 | 33.62 | | 20 | 15.67 | 33.62 | | 24.78 | 318 | 0.06 |
| 21 | 15.64 | 33.62 | | 30 | 15.32 | 33.58 | | 24.83 | 313 | 0.10 |
| 26 | 15.32 | 33.60 | | | | | | | | |
| 31 | 15.32 | 33.58 | | | | | | | | |
| 36 | 15.23 | 33.61 | | | | | | | | |
| 42 | 14.83 | 33.60 | | | | | | | | |

| | | | | | | | | | | |
|---|-------|-------|--|----|---------|---------|--|---------|-------|--------|
| CREST; January 19, 1954; 0402 GCT; 28°03'N, 114°54'W; sounding, 45 fm; wind, 160°, force 1; weather, cloudy; sea, smooth; wire angle, 00°. | | | | | | | | 120.35 | | |
| 0 | 15.90 | 33.65 | | 0 | 15.90 | 33.65 | | 24.75 | 320 | 0.00 |
| 10 | 15.91 | 33.62 | | 10 | 15.91 | 33.62 | | 24.73 | 322 | 0.03 |
| 15 | 15.84 | 33.57 | | 20 | 15.84 | 33.60 | | 24.73 | 322 | 0.06 |
| 20 | 15.84 | 33.60 | | 30 | 15.82 | 33.66 | | 24.78 | 318 | 0.10 |
| 25 | 15.82 | 33.58 | | 50 | 15.79 | 33.69 | | 24.81 | 315 | 0.16 |
| 30 | 15.82 | 33.66 | | 75 | (15.63) | (33.62) | | (24.79) | (317) | (0.24) |
| 41 | 15.81 | 33.66 | | | | | | | | |
| 46 | 15.79 | 33.69 | | | | | | | | |
| 56 | 15.78 | 33.68 | | | | | | | | |
| 72 | 15.66 | 33.63 | | | | | | | | |

SIO

CCOFI
5401

| | 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 |

12050

| |
|--|
| CREST; January 18, 1954; 2047 GCT; 27°33.5'N, 115°52'W; sounding, 2000 fm; wind, 330°, force 1; weather, cloudy; sea, moderate; wire angle, 15°. |
| 0 15.9 33.44 0 15.9 33.44 24.59 336 0.00 |
| 10 15.56 33.40 10 15.56 33.40 24.64 331 0.03 |
| 25 15.56 33.37 20 15.56 33.37 24.61 334 0.07 |
| 49 15.22 33.40 30 15.53 33.38 24.63 332 0.10 |
| 60 14.64 33.34 50 15.18 33.40 24.72 323 0.17 |
| 69 13.81 33.37 75 12.80 33.30 25.14 283 0.24 |
| 79 12.44 33.21 100 12.88 33.70 25.43 256 0.31 |
| 98 12.81 33.69 150 10.84 34.04 26.08 194 0.42 |
| 122 10.54 33.64 200 9.77 34.13 26.33 170 0.58 52 |
| 151 10.82 34.05 250 9.54 34.34 26.53 151 0.60 |
| 198 9.78 34.13 300 9.19 34.42 26.65 140 0.68 |
| 265 9.47 34.38 400 7.76 34.40 26.86 120 0.81 |
| 365 8.24 34.43 500 6.66 34.34 26.97 110 0.93 |
| 489 6.76 34.34 600 5.92 34.34 27.06 101 1.05 |
| 667 5.50 34.34 700 5.30 34.35 27.15 92 1.15 |
| 886 4.38 34.42 800 4.72 34.38 27.24 84 1.25 |
| 1190 3.60 34.56 1000 4.04 34.48 27.39 70 1.42 |

12070

| |
|---|
| CREST; January 18, 1954; 1025, 1047 GCT; 26°54'N, 117°14'W; sounding, 2100 fm; wind, 320°, force 2; weather, cloudy; sea, moderate; wire angle, 02°, 07°. |
| 0 16.3 33.73 0 16.3 33.73 24.72 323 0.00 |
| 10 16.15 33.69 10 16.15 33.69 24.73 322 0.03 |
| 26 16.17 33.69 20 16.15 33.69 24.73 322 0.06 |
| 30 16.20 33.70 24.72 323 0.10 |
| 44 16.62 33.84 50 16.80 33.95 24.78 318 0.16 |
| 55 16.90 33.98 75 13.46 33.61 25.24 274 0.24 |
| 66 15.91 33.84 100 13.00 33.97 25.62 238 0.30 |
| 76 13.45 33.61 150 11.14 34.19 26.14 188 0.41 |
| 95 13.48 33.93 200 9.99 34.32 26.44 160 0.50 |
| 120 11.60 34.04 250 9.28 34.35 26.58 146 0.58 |
| 150 11.14 34.19 300 8.80 34.41 26.71 134 0.65 |
| 200 9.99 34.32 400 7.90 34.45 26.88 118 0.78 |
| 270 9.07 34.36 500 6.86 34.45 27.03 104 0.90 |
| 376 8.18 34.45 600 6.10 34.44 27.12 95 1.01 |
| 504 6.80 34.45 700 5.48 34.43 27.19 89 1.11 |
| 690 5.52 34.43 800 4.92 34.44 27.26 82 1.20 |
| 914 4.38 34.46 1000 4.08 34.48 27.39 70 1.37 |
| 1222 3.44 34.52 |

120120

| |
|---|
| CREST; January 7, 1954; 2128 GCT; 25°21.5'N, 120°22'W; sounding, 2150 fm; wind, 360°, force 5; weather, cloudy; sea, very rough; wire angle, 16°. |
| 0 17.3 33.48 0 17.3 33.48 24.30 363 0.00 |
| 10 17.25 33.47 10 17.25 33.47 24.30 363 0.04 |
| 25 17.24 33.49 20 17.24 33.48 24.31 362 0.07 |
| 54 17.24 33.51 30 17.24 33.49 24.32 361 0.11 |
| 63 17.28 33.57 50 17.24 33.51 24.34 360 0.18 |
| 72 17.30 33.56 75 17.30 33.55 24.35 359 0.27 |
| 86 15.30 33.37 100 14.62 33.47 24.90 306 0.36 |
| 106 14.34 33.48 150 10.79 33.53 25.69 231 0.49 |
| 130 11.78 33.42 200 10.16 34.04 26.20 183 0.60 |
| 158 10.45 33.63 250 10.02 34.32 26.44 160 0.68 |
| 208 10.10 34.11 300 9.30 34.38 26.60 145 0.76 |
| 280 9.65 34.38 400 7.76 34.32 26.80 126 0.90 |
| 377 8.05 34.33 500 6.74 34.31 26.93 113 1.03 |
| 503 6.78 34.31 600 5.99 34.33 27.05 102 1.15 |
| 675 5.50 34.35 700 5.33 34.36 27.15 92 1.25 |
| 896 4.34 34.43 800 4.77 34.39 27.24 84 1.35 |
| 1189 3.57 34.51 1000 4.33 34.46 27.34 74 1.52 |

| 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 |

N. B. SCOFIELD; January 8, 1954; 0726 GCT; 24°00'N, 123°00'W; sounding, 950+ fm; wind, 020°, force 4; weather, clear; sea, moderate; wire angle, 08°.

I20160
(3)

| | | | | | | | | | | |
|-----|-------|--------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 19.30 | 34.38 | 5.35 | 0 | 19.30 | 34.38 | 5.35 | 24.49 | 345 | 0.00 |
| 70 | 19.30 | 34.36 | 5.25 | 10 | (19.30) | (34.37) | (5.34) | (24.48) | (346) | (0.04) |
| 89 | 19.26 | 34.36 | 5.26 | 20 | (19.30) | (34.37) | (5.33) | (24.48) | (346) | (0.07) |
| 109 | 18.14 | 34.14 | 5.40 | 30 | (19.30) | (34.37) | (5.30) | (24.48) | (346) | (0.10) |
| 128 | 16.72 | 34.00 | 5.43 | 50 | (19.30) | (34.36) | (5.27) | (24.48) | (346) | (0.17) |
| 148 | 14.81 | 33.79 | 5.23 | 75 | 19.30 | 34.36 | 5.24 | 24.47 | 347 | (0.26) |
| 167 | 12.27 | 33.69 | 4.80 | 100 | 19.00 | 34.31 | 5.33 | 24.52 | 342 | (0.35) |
| 196 | 10.90 | 33.68 | 4.03 | 150 | 14.50 | 33.77 | 5.20 | 25.15 | 282 | (0.50) |
| 244 | 9.64 | 34.03 | 2.96 | 200 | 10.73 | 33.69 | 3.92 | 25.82 | 219 | (0.63) |
| 292 | 8.73 | 34.16 | 2.32 | 250 | 9.54 | 34.05 | 2.83 | 26.32 | 172 | (0.73) |
| 341 | 7.79 | 34.18 | 1.93 | 300 | 8.58 | 34.16 | 2.28 | 26.54 | 150 | (0.82) |
| 389 | 7.28 | 34.22 | 1.16 | 400 | 7.15 | 34.23 | 1.04 | 26.81 | 125 | (0.96) |
| 486 | 6.34 | 34.29 | 0.51 | 500 | 6.23 | 34.31 | 0.46 | 27.00 | 107 | (1.08) |
| 583 | 5.68 | 34.42 | 0.37 | 600 | 5.59 | 34.43 | 0.35 | 27.18 | 90 | (1.19) |
| 778 | 4.96 | 34.47 | 0.41 | 700 | 5.23 | 34.45 | 0.37 | 27.23 | 85 | (1.28) |
| 975 | 4.25 | 34.61u | 0.55 | 800 | 4.87 | 34.47 | 0.42 | 27.28 | 80 | (1.37) |
| | | | | 1000 | (4.16) | (34.51) | (0.56) | (27.40) | (69) | (1.53) |

N. B. SCOFIELD; January 10, 1954; 1759 GCT; 21°55'N, 126°50'W; sounding, 950+ fm; wind, 040°, force 4; weather, overcast; sea, very rough; wire angle, 12°.

I20220
(5)

| | | | | | | | | | | |
|-----|-------|---------------------|------|-----|---------|---------|--------|---------|-------|--------|
| 0 | 19.68 | 34.60 | 5.16 | 0 | 19.68 | 34.60 | 5.16 | 24.56 | 339 | 0.00 |
| 107 | 19.66 | 34.57 | 5.22 | 10 | (19.68) | (34.60) | (5.17) | (24.56) | (339) | (0.03) |
| 118 | 18.88 | 34.40 | 5.29 | 20 | (19.68) | (34.60) | (5.17) | (24.56) | (339) | (0.07) |
| 126 | 17.66 | 34.22 | 5.30 | 30 | (19.68) | (34.60) | (5.18) | (24.56) | (339) | (0.10) |
| 135 | 17.10 | 34.22 | 5.19 | 50 | (19.68) | (34.60) | (5.18) | (24.56) | (339) | (0.17) |
| 144 | 16.65 | 34.15 | 5.15 | 75 | (19.68) | (34.60) | (5.20) | (24.56) | (339) | (0.26) |
| 155 | 15.45 | 34.03 | 4.88 | 100 | (19.67) | (34.58) | (5.24) | (24.55) | (340) | (0.34) |
| 174 | 13.63 | 33.89 | 4.52 | 150 | 16.00 | 34.08 | 5.05 | 25.06 | 291 | (0.50) |
| 193 | 11.88 | 33.87 | 4.01 | 200 | 11.44 | 33.89 | 3.80 | 25.85 | 216 | (0.63) |
| 242 | 9.82 | 34.12 | 2.79 | 250 | 9.73 | 34.14 | 2.63 | 26.34 | 169 | (0.73) |
| 291 | 9.22 | 34.26 | 1.83 | 300 | 9.13 | 34.28 | 1.67 | 26.55 | 149 | (0.81) |
| 387 | 8.18 | 34.41 | 0.66 | 400 | 8.03 | 34.41 | 0.58 | 26.83 | 123 | (0.95) |
| 485 | 7.10 | 34.45 | 0.34 | 500 | 6.97 | 34.46 | 0.33 | 27.03 | 104 | (1.07) |
| 581 | 6.29 | 34.52 | 0.30 | 600 | (6.16) | (34.52) | (0.30) | (27.18) | (90) | (1.18) |
| 777 | 5.16 | 34.53 ^{a)} | 0.37 | | | | | | | |
| 974 | 4.38 | 34.78r | - | | | | | | | |

CREST; January 17, 1954; 1055 GCT; 27°18'N, 114°51.5'W; sounding, 270 fm; wind, 300°, force 2; weather, partly cloudy; sea, slight; wire angle, 14°.

I2340

| | | | | | | | | | | |
|-----|-------|-------|--|-----|--------|---------|--|---------|-------|--------|
| 0 | 17.8 | 34.33 | | 0 | 17.8 | 34.33 | | 24.83 | 313 | 0.00 |
| 9 | 17.70 | 34.31 | | 10 | 17.70 | 34.31 | | 24.84 | 312 | 0.03 |
| 15 | 17.73 | 34.40 | | 20 | 17.72 | 34.29 | | 24.82 | 314 | 0.06 |
| 19 | 17.73 | 34.29 | | 30 | 17.67 | 34.27 | | 24.81 | 315 | 0.09 |
| 25 | 17.72 | 34.31 | | 50 | 13.97 | 33.79 | | 25.28 | 270 | 0.15 |
| 30 | 17.67 | 34.27 | | 75 | 11.46 | 33.71 | | 25.71 | 229 | 0.22 |
| 40 | 15.86 | 34.02 | | 100 | 11.10 | 33.79 | | 25.84 | 217 | 0.27 |
| 50 | 13.97 | 33.79 | | 150 | 10.54 | 34.21 | | 26.26 | 177 | 0.37 |
| 65 | 12.06 | 33.68 | | 200 | 10.22 | 34.40 | | 26.47 | 157 | 0.46 |
| 80 | 11.32 | 33.73 | | 250 | 9.60 | 34.41 | | 26.59 | 146 | 0.53 |
| 99 | 11.10 | 33.78 | | 300 | 9.04 | 34.42 | | 26.68 | 137 | 0.61 |
| 123 | 10.71 | 34.06 | | 400 | (8.21) | (34.42) | | (26.81) | (125) | (0.75) |
| 163 | 10.48 | 34.27 | | | | | | | | |
| 201 | 10.20 | 34.40 | | | | | | | | |
| 251 | 9.56 | 34.41 | | | | | | | | |
| 322 | 8.83 | 34.42 | | | | | | | | |
| 397 | 8.23 | 34.42 | | | | | | | | |

a) Alternate value of 34.62‰.

SIO

CCOFI
5401

| 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 | δT ₃ 10 ⁻⁵ cm ³ /g | ΔD dyn. m |

12360

CREST; January 17, 1954; 2020 GCT; 26°37'N, 116°08.5'W; sounding, 2060 fm; wind, 340°, force 3; weather, cloudy; sea, rough; wire angle, 11°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 17.2 | 33.86 | | 0 | 17.2 | 33.86 | | 24.61 | 334 | 0.00 |
| 10 | 17.12 | 33.89 | | 10 | 17.12 | 33.89 | | 24.65 | 330 | 0.03 |
| 31 | 17.13 | 33.89 | | 20 | 17.12 | 33.89 | | 24.65 | 330 | 0.07 |
| 45 | 17.20 | 34.05 | | 30 | 17.12 | 33.89 | | 24.65 | 330 | 0.10 |
| 56 | 17.13 | 34.04 | | 50 | 17.18 | 34.05 | | 24.76 | 320 | 0.16 |
| 66 | 14.85 | 33.86 | | 75 | 13.12 | 33.73 | | 25.41 | 258 | 0.24 |
| 76 | 13.02 | 33.73 | | 100 | 11.84 | 33.83 | | 25.73 | 227 | 0.30 |
| 86 | 12.32 | 33.75 | | 150 | 10.22 | 34.01 | | 26.16 | 186 | 0.40 |
| 102 | 11.80 | 33.84 | | 200 | 10.25 | 34.39 | | 26.45 | 159 | 0.49 |
| 112 | 11.40 | 33.88 | | 250 | 9.60 | 34.42 | | 26.59 | 146 | 0.57 |
| 137 | 10.24 | 33.84 | | 300 | 9.00 | 34.41 | | 26.68 | 137 | 0.64 |
| 167 | 10.48 | 34.22 | | 400 | 7.88 | 34.43 | | 26.86 | 120 | 0.78 |
| 221 | 10.00 | 34.42 | | 500 | 6.81 | 34.42 | | 27.01 | 106 | 0.90 |
| 286 | 9.18 | 34.41 | | 600 | 6.00 | 34.42 | | 27.12 | 95 | 1.01 |
| 399 | 7.90 | 34.43 | | | | | | | | |
| 528 | 6.55 | 34.42 | | | | | | | | |
| 664 | 5.55 | 34.42 | | | | | | | | |

127.34

CREST; January 16, 1954; 2112 GCT; 26°55'N, 114°05.5'W; sounding, 44 fm; wind, 270°, force 4; weather, partly cloudy; sea, moderate; wire angle, 00°.

| | | | | | | | | | | |
|----|-------|-------|--|----|-------|-------|--|-------|-----|------|
| 0 | 18.23 | 34.38 | | 0 | 18.23 | 34.38 | | 24.76 | 320 | 0.00 |
| 10 | 18.15 | 34.42 | | 10 | 18.15 | 34.42 | | 24.81 | 315 | 0.03 |
| 15 | 18.12 | 34.34 | | 20 | 18.12 | 34.42 | | 24.82 | 314 | 0.06 |
| 21 | 18.12 | 34.42 | | 30 | 18.10 | 34.40 | | 24.81 | 315 | 0.10 |
| 26 | 18.11 | 34.38 | | 50 | 17.55 | 34.27 | | 24.84 | 312 | 0.16 |
| 31 | 18.10 | 34.40 | | | | | | | | |
| 36 | 18.10 | 34.38 | | | | | | | | |
| 42 | 18.11 | 34.40 | | | | | | | | |
| 52 | 16.86 | 34.20 | | | | | | | | |
| 62 | 14.49 | 34.02 | | | | | | | | |

127.50

CREST; January 16, 1954; 1310 GCT; 26°22'N, 115°10.5'W; sounding, 1930 fm; wind, 350°, force 5; weather, clear; sea, moderate; wire angle, 17°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 18.5 | 34.32 | | 0 | 18.5 | 34.32 | | 24.65 | 330 | 0.00 |
| 10 | 18.39 | 34.30 | | 10 | 18.39 | 34.30 | | 24.66 | 329 | 0.03 |
| 30 | 18.42 | 34.29 | | 20 | 18.42 | 34.29 | | 24.64 | 331 | 0.07 |
| 44 | 18.40 | 34.28 | | 30 | 18.42 | 34.29 | | 24.64 | 331 | 0.10 |
| 54 | 15.42 | 33.76 | | 50 | 17.30 | 34.20 | | 24.85 | 311 | 0.16 |
| 64 | 13.41 | 33.46 | | 75 | 13.19 | 33.71 | | 25.38 | 260 | 0.24 |
| 74 | 13.20 | 33.69 | | 100 | 11.28 | 33.69 | | 25.73 | 227 | 0.30 |
| 84 | 12.96 | 33.78 | | 150 | 10.48 | 34.30 | | 26.34 | 169 | 0.40 |
| 98 | 11.32 | 33.69 | | 200 | 10.60 | 34.33 | | 26.35 | 168 | 0.48 |
| 107 | 11.10 | 33.83 | | 250 | 9.20 | 34.36 | | 26.61 | 144 | 0.56 |
| 131 | 10.58 | 33.95 | | 300 | 8.82 | 34.38 | | 26.68 | 137 | 0.64 |
| 160 | 10.88 | 34.33 | | 400 | 7.44 | 34.31 | | 26.83 | 123 | 0.77 |
| 213 | 9.46 | 34.33 | | 500 | 6.62 | 34.38 | | 27.00 | 107 | 0.89 |
| 274 | 9.06 | 34.38 | | 600 | 6.00 | 34.37 | | 27.08 | 99 | 1.00 |
| 386 | 7.58 | 34.31 | | | | | | | | |
| 511 | 6.54 | 34.38 | | | | | | | | |
| 643 | 5.76 | 34.36 | | | | | | | | |

| OBSERVED | | | | INTERPOLATED | | | | COMPUTED | | | SIO CCOFI 5401 |
|--|---------|---------------------|------------------------|--------------|---------|---------|------------------------|-----------------------|--|----------------|----------------------|
| 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 | |
| N. B. SCOFIELD; January 8, 1954; 2242 GCT; 22°00'N, 123°00'W; sounding, 950+ fm; wind, 040°, force 4; weather, cloudy; sea, rough; wire angle, 15°. | | | | | | | | | | 128.175 (4) | |
| 0 | 19.80 | 34.50 | 5.30 | 0 | 19.80 | 34.50 | 5.30 | 24.45 | 349 | 0.00 | |
| 77 | 19.41 | 34.58 | 5.40 | 10 | (19.76) | (34.51) | (5.31) | (24.47) | (347) | (0.04) | |
| 87 | 19.22 | 34.36 ^{a)} | 5.42 | 20 | (19.74) | (34.52) | (5.32) | (24.48) | (346) | (0.07) | |
| 96 | 18.49 | 34.54 | 5.37 | 30 | (19.69) | (34.53) | (5.33) | (24.50) | (344) | (0.10) | |
| 105 | 17.14 | 34.13 | 5.40 | 50 | (19.60) | (34.56) | (5.35) | (24.55) | (340) | (0.17) | |
| 116 | 16.73 | 33.98 | 5.34 | 75 | (19.45) | (34.58) | (5.40) | (24.60) | (335) | (0.26) | |
| 144 | 14.32 | 33.95 | 4.17 | 100 | 17.50 | 34.21 | 5.36 | 24.81 | 315 | (0.34) | |
| 168 | 11.86 | 33.79 | 3.93 | 150 | 13.50 | 33.89 | 4.10 | 25.47 | 253 | (0.48) | |
| 191 | 10.58 | 33.84 | 3.86 | 200 | 10.24 | 33.89 | 3.72 | 26.06 | 196 | (0.60) | |
| 239 | 9.33 | 34.12 | 2.78 | 250 | 9.24 | 34.14 | 2.51 | 26.43 | 161 | (0.69) | |
| 288 | 9.00 | 34.23 | 1.83 | 300 | 8.91 | 34.26 | 1.65 | 26.57 | 148 | (0.77) | |
| 385 | 8.08 | 34.38 | 0.61 | 400 | 7.90 | 34.39 | 0.55 | 26.83 | 123 | (0.91) | |
| 479 | 7.01 | 34.41 | 0.33 | 500 | 6.84 | 34.42 | 0.32 | 27.01 | 106 | (1.03) | |
| 577 | 6.28 | 34.45 | 0.30 | 600 | 6.11 | 34.46 | 0.30 | 27.13 | 94 | (1.14) | |
| 771 | 5.12 | 34.49 | 0.38 | 700 | 5.48 | 34.48 | 0.32 | 27.23 | 85 | (1.24) | |
| 968 | 4.41 | 34.52 | 0.52 | 800 | 5.00 | 34.49 | 0.38 | 27.29 | 79 | (1.33) | |
| | | | | 1000 | (4.33) | (34.52) | (0.57) | (27.39) | (69) | (1.50) | |
| CREST; January 15, 1954; 1414, 1422 GCT; 26°26.5'N, 113°29'W; sounding, 45 fm; wind, 020°, force 3; weather, clear; sea, moderate; wire angle, 03°, 04°. | | | | | | | | | | 130.30 | ✓ |
| 0 | 18.78 | 34.45 | | 0 | 18.78 | 34.45 | | 24.68 | 327 | 0.00 | |
| 10 | 18.84 | 34.46 | | 10 | 18.84 | 34.46 | | 24.67 | 328 | 0.03 | |
| | | | | 20 | 18.84 | 34.48 | | 24.68 | 327 | 0.07 | |
| 15 | 18.82 | 34.49 | | 30 | 18.82 | 34.47 | | 24.68 | 327 | 0.10 | |
| 21 | 18.84 | 34.48 | | 50 | 18.80 | 34.45 | | 24.67 | 328 | 0.16 | |
| 26 | 18.84 | 34.45 | | | | | | | | | |
| 31 | 18.82 | 34.47 | | | | | | | | | |
| 36 | 18.84 | 34.45 | | | | | | | | | |
| 41 | 18.82 | 34.44 | | | | | | | | | |
| 52 | 18.79 | 34.45 | | | | | | | | | |
| 62 | 18.68 | 34.44 | | | | | | | | | |
| CREST; January 15, 1954; 1910 GCT; 26°11.5'N, 114°08.5'W; sounding, 1380 fm; wind, 010°, force 3; weather, clear; sea, rough; wire angle, 19°. | | | | | | | | | | 130.40 | ✓ |
| 0 | 18.1 | 34.15 | | 0 | 18.10 | 34.15 | | 24.62 | 333 | 0.00 | |
| 10 | 17.98 | 34.14 | | 10 | 17.98 | 34.14 | | 24.64 | 331 | 0.03 | |
| 24 | 18.02 | 34.14 | | 20 | 18.01 | 34.14 | | 24.63 | 332 | 0.07 | |
| 53 | 14.02 | 33.60 | | 30 | 17.99 | 34.13 | | 24.63 | 332 | 0.10 | |
| 62 | 13.42 | 33.68 | | 50 | 14.70 | 33.61 | | 24.99 | 298 | 0.16 | |
| 72 | 12.73 | 33.77 | | 75 | 12.50 | 33.77 | | 25.56 | 243 | 0.23 | |
| 87 | 11.53 | 33.66 | | 100 | 11.12 | 33.77 | | 25.82 | 219 | 0.29 | |
| 105 | 11.09 | 33.87 | | 150 | 11.15 | 34.36 | | 26.27 | 176 | 0.39 | |
| 129 | 11.56 | 34.22 | | 200 | 10.77 | 34.46 | | 26.42 | 162 | 0.48 | |
| 156 | 11.10 | 34.38 | | 250 | 10.05 | 34.50 | | 26.57 | 148 | 0.56 | |
| 207 | 10.64 | 34.47 | | 300 | 9.36 | 34.50 | | 26.69 | 136 | 0.63 | |
| 280 | 9.62 | 34.51 | | 400 | 8.18 | 34.44 | | 26.83 | 123 | 0.77 | |
| 381 | 8.40 | 34.44 | | 500 | 7.10 | 34.46 | | 27.00 | 107 | 0.89 | |
| 516 | 6.95 | 34.46 | | 600 | 6.15 | 34.46 | | 27.13 | 94 | 1.00 | |
| 699 | 5.47 | 34.46 | | 700 | 5.42 | 34.46 | | 27.22 | 86 | 1.10 | |
| 927 | 4.46 | 34.53 | | 800 | 4.95 | 34.49 | | 27.30 | 78 | 1.19 | |
| 1231 | 3.62 | 34.56 | | 1000 | 4.24 | 34.54 | | 27.42 | 67 | 1.35 | |
| | | | | 1200 | 3.70 | 34.67 | | 27.58 | 52 | 1.49 | |

a) Loose cap on bottle; value not used in interpolation.

SIO

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5401

| 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 | δ _T 10 ⁵ cm ³ /g | ΔD dyn. m |

13060

CREST; January 16, 1954; 0349 GCT; 25°31'N, 115°25'W; sounding, 2050 fm; wind, 360°, force 4; weather, clear; sea, moderate; wire angle, 15°.

| | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-----|------|
| 0 | 17.4 | 34.04 | 0 | 17.4 | 34.04 | 24.70 | 325 | 0.00 |
| 9 | 17.02 | 34.04 | 10 | 17.02 | 34.04 | 24.79 | 317 | 0.03 |
| 25 | 16.99 | 34.09 | 20 | 17.00 | 34.08 | 24.83 | 313 | 0.06 |
| 55 | 13.46 | 33.67 | 30 | 17.00 | 34.08 | 24.83 | 313 | 0.10 |
| 65 | 12.22 | 33.55 | 50 | 15.80 | 33.84 | 24.92 | 304 | 0.16 |
| 75 | 12.36 | 33.75 | 75 | 12.36 | 33.75 | 25.57 | 242 | 0.23 |
| 89 | 11.08 | 33.72 | 100 | 10.38 | 33.73 | 25.92 | 209 | 0.28 |
| 108 | 10.18 | 33.77 | 150 | 10.05 | 34.11 | 26.27 | 176 | 0.38 |
| 134 | 10.06 | 33.98 | 200 | 9.78 | 34.32 | 26.48 | 156 | 0.46 |
| 163 | 10.02 | 34.19 | 250 | 9.35 | 34.40 | 26.61 | 144 | 0.54 |
| 216 | 9.62 | 34.35 | 300 | 8.92 | 34.42 | 26.70 | 135 | 0.62 |
| 294 | 8.98 | 34.42 | 400 | 7.58 | 34.39 | 26.88 | 118 | 0.75 |
| 402 | 7.52 | 34.39 | 500 | 6.55 | 34.39 | 27.02 | 105 | 0.87 |
| 545 | 6.19 | 34.40 | 600 | 5.81 | 34.41 | 27.13 | 94 | 0.97 |
| 734 | 5.10 | 34.44 | 700 | 5.28 | 34.43 | 27.21 | 87 | 1.07 |
| 973 | 4.14 | 34.52 | 800 | 4.80 | 34.47 | 27.30 | 78 | 1.16 |
| 1284 | 3.33 | 34.54 | 1000 | 4.07 | 34.52 | 27.42 | 67 | 1.33 |

130.IIO

CREST; January 8, 1954; 1140 GCT; 23°48'N, 118°33.5'W; sounding, 2250 fm; wind, 270°, force 5; weather, partly cloudy; sea, very rough; wire angle, 16°.

| | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-----|------|
| 0 | 18.2 | 33.86 | 0 | 18.2 | 33.86 | 24.37 | 357 | 0.00 |
| 10 | 18.08 | 33.82 | 10 | 18.08 | 33.82 | 24.37 | 357 | 0.04 |
| 25 | 18.10 | 33.80 | 20 | 18.10 | 33.80 | 24.35 | 359 | 0.07 |
| 52 | 18.10 | 33.82 | 30 | 18.10 | 33.80 | 24.35 | 359 | 0.11 |
| 61 | 18.10 | 33.82 | 50 | 18.10 | 33.82 | 24.36 | 358 | 0.18 |
| 70 | 18.10 | 33.81 | 75 | 18.10 | 33.82 | 24.36 | 358 | 0.27 |
| 85 | 16.30 | 33.86 | 100 | 15.00 | 33.70 | 24.99 | 298 | 0.35 |
| 101 | 14.88 | 33.69 | 150 | 12.10 | 33.95 | 25.77 | 223 | 0.48 |
| 124 | 12.56 | 33.54 | 200 | 11.58 | 34.43 | 26.24 | 179 | 0.59 |
| 149 | 12.03 | 33.91 | 250 | 10.50 | 34.42 | 26.43 | 161 | 0.67 |
| 194 | 11.62 | 34.39 | 300 | 9.30 | 34.36 | 26.59 | 146 | 0.75 |
| 221 | 11.36 | 34.51 | 400 | 8.10 | 34.41 | 26.82 | 124 | 0.89 |
| 351 | 8.56 | 34.36 | 500 | 7.12 | 34.45 | 26.99 | 108 | 1.02 |
| 471 | 7.44 | 34.45 | 600 | 6.06 | 34.39 | 27.08 | 99 | 1.13 |
| 633 | 5.85 | 34.40 | 700 | 5.42 | 34.49 | 27.24 | 84 | 1.23 |
| 838 | 4.75 | 34.55 | 800 | 4.92 | 34.54 | 27.34 | 74 | 1.32 |
| 1119 | 3.77 | 34.57 | 1000 | 4.12 | 34.57 | 27.45 | 64 | 1.47 |

133.30

CREST; January 15, 1954; 0647 GCT; 25°55'N, 113°07'W; sounding, 100 fm; wind, 010°, force 4; weather, partly cloudy; sea, very rough; wire angle, 10°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 18.78 | 34.24 | 0 | 18.78 | 34.24 | 24.52 | 342 | 0.00 |
| 10 | 18.82 | 34.25 | 10 | 18.82 | 34.25 | 24.51 | 343 | 0.03 |
| 15 | 18.78 | 34.24 | 20 | 18.79 | 34.24 | 24.51 | 343 | 0.07 |
| 20 | 18.79 | 34.24 | 30 | 18.77 | 34.26 | 24.53 | 341 | 0.10 |
| 25 | 18.79 | 34.26 | 50 | 17.13 | 33.92 | 24.68 | 327 | 0.17 |
| 30 | 18.77 | 34.26 | 75 | 14.30 | 34.09 | 25.44 | 255 | 0.24 |
| 35 | 18.75 | 34.25 | 100 | 13.67 | 34.32 | 25.75 | 225 | 0.30 |
| 45 | 17.78 | 34.06 | 150 | 12.00 | 34.57 | 26.27 | 176 | 0.41 |
| 55 | 16.36 | 33.87 | | | | | | |
| 65 | 14.86 | 33.99 | | | | | | |
| 80 | 14.32 | 34.13 | | | | | | |
| 99 | 13.70 | 34.31 | | | | | | |
| 118 | 13.02 | 34.46 | | | | | | |
| 151 | 11.98 | 34.57 | | | | | | |

| 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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5401

CREST; January 14, 1954; 2113 GCT; 25°13'N, 114°27'W; sounding, 1950 fm; wind, 320°, force 4;
weather, partly cloudy; sea, very rough; wire angle, 22°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 18.0 | 34.00 | 0 | 18.0 | 34.00 | 24.53 | 341 | 0.00 |
| 10 | 18.00 | 34.00 | 10 | 18.00 | 34.00 | 24.53 | 341 | 0.03 |
| 29 | 18.02 | 34.02 | 20 | 18.01 | 34.01 | 24.53 | 341 | 0.07 |
| 44 | 17.98 | 33.99 | 30 | 18.02 | 34.02 | 24.54 | 340 | 0.10 |
| 53 | 17.92 | 34.03 | 50 | 17.94 | 34.02 | 24.56 | 339 | 0.17 |
| 62 | 14.36 | 33.37 | 75 | 13.75 | 33.37 | 25.00 | 297 | 0.25 |
| 71 | 13.88 | 33.42 | 100 | 11.75 | 33.58 | 25.55 | 244 | 0.32 |
| 81 | 13.54 | 33.36 | 150 | 12.14 | 34.32 | 26.05 | 197 | 0.43 |
| 94 | 12.03 | 33.51 | 200 | 11.26 | 34.54 | 26.39 | 164 | 0.52 |
| 103 | 11.68 | 33.62 | 250 | 10.48 | 34.53 | 26.52 | 152 | 0.60 |
| 126 | 11.68 | 33.95 | 300 | 9.50 | 34.48 | 26.65 | 140 | 0.68 |
| 153 | 12.14 | 34.36 | 400 | 7.80 | 34.34 | 26.81 | 125 | 0.82 |
| 200 | 11.26 | 34.54 | 500 | 6.74 | 34.40 | 27.00 | 107 | 0.94 |
| 260 | 10.30 | 34.52 | | | | | | |
| 357 | 8.49 | 34.37 | | | | | | |
| 455 | 7.10 | 34.36 | | | | | | |
| 562 | 6.42 | 34.43 | | | | | | |

✓ 133.50

CREST; January 14, 1954; 0319 GCT; 25°34'N, 112°18.5'W; sounding, 43 fm; wind, 210°, force 2;
weather, cloudy; sea, rough; wire angle, 00°.

| | | | | | | | | |
|----|-------|-------|----|-------|-------|-------|-----|------|
| 0 | 19.68 | 34.43 | 0 | 19.68 | 34.43 | 24.43 | 351 | 0.00 |
| 10 | 19.70 | 34.46 | 10 | 19.70 | 34.46 | 24.45 | 349 | 0.04 |
| 15 | 19.70 | 34.45 | 20 | 19.70 | 34.42 | 24.42 | 352 | 0.07 |
| 21 | 19.70 | 34.42 | 30 | 19.65 | 34.43 | 24.44 | 350 | 0.11 |
| 26 | 19.70 | 34.45 | 50 | 18.10 | 34.21 | 24.66 | 329 | 0.17 |
| 31 | 19.64 | 34.42 | | | | | | |
| 36 | 19.70 | 34.38 | | | | | | |
| 41 | 19.66 | 34.38 | | | | | | |
| 52 | 17.70 | 34.17 | | | | | | |
| 62 | 15.88 | 34.05 | | | | | | |

✓ 137.23

CREST; January 14, 1954; 1204 GCT; 25°02.5'N, 113°25'W; sounding, 1600 fm; wind, 300°, force 4;
weather, cloudy; sea, moderate; wire angle, 10°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 19.5 | 34.18 | 0 | 19.5 | 34.18 | 24.29 | 364 | 0.00 |
| 10 | 19.54 | 34.19 | 10 | 19.54 | 34.19 | 24.28 | 365 | 0.04 |
| 30 | 19.48 | 34.23 | 20 | 19.51 | 34.21 | 24.31 | 362 | 0.07 |
| 45 | 19.48 | 34.27 | 30 | 19.48 | 34.23 | 24.33 | 360 | 0.11 |
| 56 | 15.28 | 33.53 | 50 | 19.47 | 34.05 | 24.20 | 373 | 0.18 |
| 66 | 13.94 | 33.65 | 75 | 12.93 | 33.62 | 25.36 | 263 | 0.26 |
| 76 | 12.89 | 33.62 | 100 | 12.62 | 33.90 | 25.64 | 236 | 0.33 |
| 87 | 12.74 | 33.69 | 150 | 11.00 | 34.14 | 26.13 | 189 | 0.43 |
| 101 | 12.62 | 33.91 | 200 | 10.60 | 34.25 | 26.28 | 175 | 0.53 |
| 111 | 12.12 | 34.00 | 250 | 10.36 | 34.53 | 26.54 | 150 | 0.61 |
| 136 | 11.62 | 34.14 | 300 | 9.88 | 34.54 | 26.63 | 142 | 0.69 |
| 166 | 10.33 | 34.14 | 400 | 8.36 | 34.45 | 26.81 | 125 | 0.83 |
| 221 | 10.53 | 34.47 | 500 | 6.90 | 34.38 | 26.97 | 110 | 0.95 |
| 286 | 10.07 | 34.54 | 600 | 6.05 | 34.40 | 27.09 | 98 | 1.06 |
| 399 | 8.40 | 34.45 | | | | | | |
| 528 | 6.62 | 34.38 | | | | | | |
| 662 | 5.66 | 34.42 | | | | | | |

✓ 137.40

SIO

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5401

| 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 | δ _T 10 ⁻⁵ cm ³ /g | ΔD dyn.m |

137.140

CREST; January 9, 1954; 0321 GCT; 21°40'N, 119°41'W; sounding, 2200 fm; wind, 290°, force 4; weather, cloudy; sea, very rough; wire angle, 23°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 19.2 | 34.16 | | 0 | 19.2 | 34.16 | | 24.35 | 359 | 0.00 |
| 9 | 19.24 | 34.16 | | 10 | 19.24 | 34.16 | | 24.34 | 360 | 0.04 |
| 24 | 19.24 | 34.14 | | 20 | 19.24 | 34.14 | | 24.32 | 361 | 0.07 |
| 52 | 19.27 | 34.15 | | 30 | 19.24 | 34.14 | | 24.32 | 361 | 0.11 |
| 61 | 19.28 | 34.18 | | 50 | 19.24 | 34.15 | | 24.33 | 360 | 0.18 |
| 71 | 19.28 | 34.14 | | 75 | 19.30 | 34.04 | | 24.23 | 370 | 0.27 |
| 84 | 17.44 | 33.89 | | 100 | 16.00 | 33.78 | | 24.83 | 313 | 0.36 |
| 102 | 15.86 | 33.77 | | 150 | 12.00 | 33.74 | | 25.63 | 237 | 0.50 |
| 125 | 14.00 | 33.73 | | 200 | 10.36 | 34.26 | | 26.33 | 170 | 0.60 |
| 151 | 11.93 | 33.74 | | 250 | 9.24 | 34.24 | | 26.51 | 153 | 0.68 |
| 199 | 10.40 | 34.26 | | 300 | 8.55 | 34.35 | | 26.70 | 135 | 0.76 |
| 270 | 8.91 | 34.25 | | 400 | 7.60 | 34.42 | | 26.90 | 116 | 0.89 |
| 366 | 7.94 | 34.42 | | 500 | 6.62 | 34.43 | | 27.04 | 103 | 1.01 |
| 496 | 6.66 | 34.43 | | 600 | 6.02 | 34.47 | | 27.15 | 92 | 1.11 |
| 671 | 5.68 | 34.51 | | 700 | 5.53 | 34.52 | | 27.25 | 83 | 1.21 |
| 896 | 4.69 | 34.56 | | 800 | 5.08 | 34.55 | | 27.33 | 75 | 1.30 |
| 1197 | 3.70 | 34.56 | | 1000 | 4.32 | 34.56 | | 27.42 | 67 | 1.46 |

140.35

CREST; January 13, 1954; 1910, 1924 GCT; 24°35.5'N, 112°43'W; sounding, 460 fm; wind, 260°, force 1; weather, cloudy; sea, rough; wire angle, 05°, 05°.

| | | | | | | | | | | |
|-----|-------|-------|--|-----|-------|-------|--|-------|-----|------|
| 0 | 19.6 | 34.14 | | 0 | 19.6 | 34.14 | | 24.23 | 370 | 0.00 |
| 10 | 19.56 | 34.14 | | 10 | 19.56 | 34.14 | | 24.24 | 369 | 0.04 |
| 31 | 19.52 | 34.14 | | 20 | 19.53 | 34.14 | | 24.25 | 368 | 0.07 |
| 41 | 19.47 | 34.14 | | 30 | 19.52 | 34.14 | | 24.25 | 368 | 0.11 |
| | | | | 50 | 19.20 | 34.11 | | 24.31 | 362 | 0.18 |
| 51 | 19.05 | 34.10 | | 75 | 14.71 | 33.49 | | 24.89 | 307 | 0.27 |
| 63 | 16.42 | 33.68 | | 100 | 13.30 | 33.89 | | 25.49 | 250 | 0.34 |
| 73 | 14.86 | 33.49 | | 150 | 12.42 | 34.44 | | 26.09 | 193 | 0.45 |
| 83 | 14.28 | 33.76 | | 200 | 11.80 | 34.66 | | 26.38 | 166 | 0.54 |
| 103 | 13.10 | 33.90 | | 250 | 11.17 | 34.60 | | 26.45 | 159 | 0.63 |
| 129 | 11.74 | 33.95 | | 300 | 10.55 | 34.56 | | 26.53 | 151 | 0.71 |
| 158 | 12.22 | 34.54 | | 400 | 9.08 | 34.53 | | 26.76 | 129 | 0.85 |
| 207 | 11.73 | 34.66 | | 500 | 7.34 | 34.49 | | 26.99 | 108 | 0.98 |
| 277 | 10.86 | 34.57 | | 600 | 6.30 | 34.44 | | 27.09 | 98 | 1.09 |
| 381 | 9.44 | 34.54 | | 700 | 5.60 | 34.43 | | 27.17 | 91 | 1.19 |
| 509 | 7.24 | 34.49 | | 800 | 5.12 | 34.46 | | 27.26 | 82 | 1.29 |
| 664 | 5.80 | 34.43 | | | | | | | | |
| 820 | 5.02 | 34.47 | | | | | | | | |

140.50

CREST; January 13, 1954; 1214 GCT; 24°08.5'N, 113°41'W; sounding, 1800 fm; wind, 270°, force 3; weather, partly cloudy; sea, slight; wire angle, 05°.

| | | | | | | | | | | |
|------|-------|-------|--|------|-------|-------|--|-------|-----|------|
| 0 | 19.3 | 34.25 | | 0 | 19.3 | 34.25 | | 24.39 | 355 | 0.00 |
| 10 | 19.26 | 34.25 | | 10 | 19.26 | 34.25 | | 24.40 | 354 | 0.04 |
| 25 | 19.28 | 34.26 | | 20 | 19.27 | 34.26 | | 24.41 | 353 | 0.07 |
| 51 | 19.22 | 34.26 | | 30 | 19.27 | 34.26 | | 24.41 | 353 | 0.11 |
| 62 | 16.05 | 33.99 | | 50 | 19.23 | 34.26 | | 24.42 | 352 | 0.18 |
| 72 | 15.44 | 34.14 | | 75 | 15.32 | 34.19 | | 25.30 | 268 | 0.26 |
| 82 | 15.10 | 34.29 | | 100 | 14.58 | 34.49 | | 25.69 | 231 | 0.32 |
| 102 | 14.54 | 34.51 | | 150 | 12.77 | 34.77 | | 26.28 | 175 | 0.42 |
| 127 | 13.66 | 34.70 | | 200 | 11.50 | 34.71 | | 26.48 | 156 | 0.51 |
| 157 | 12.54 | 34.77 | | 250 | 10.40 | 34.66 | | 26.64 | 141 | 0.58 |
| 206 | 11.39 | 34.70 | | 300 | 9.30 | 34.62 | | 26.79 | 127 | 0.65 |
| 276 | 9.86 | 34.64 | | 400 | 7.40 | 34.53 | | 27.01 | 106 | 0.78 |
| 378 | 7.72 | 34.54 | | 500 | 6.38 | 34.50 | | 27.13 | 94 | 0.88 |
| 506 | 6.32 | 34.50 | | 600 | 5.80 | 34.48 | | 27.19 | 89 | 0.98 |
| 690 | 5.34 | 34.48 | | 700 | 5.30 | 34.48 | | 27.25 | 83 | 1.08 |
| 911 | 4.44 | 34.49 | | 800 | 4.86 | 34.48 | | 27.30 | 78 | 1.16 |
| 1216 | 3.52 | 34.58 | | 1000 | 4.15 | 34.51 | | 27.40 | 69 | 1.33 |

| 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 5401 |
| CREST; January 9, 1954; 1758 GCT; 22°06'N, 117°25'W; sounding, 2250 fm; wind, 010°, force 4; weather, cloudy; sea, high; wire angle, 26°. | | | | | | | | | | | |
| 0 | 19.5 | 34.25 | | 0 | 19.5 | 34.25 | | 24.34 | 360 | 0.00 | 140110 |
| 10 | 19.54 | 34.27 | | 10 | 19.54 | 34.27 | | 24.35 | 359 | 0.04 | |
| 23 | 19.56 | 34.27 | | 20 | 19.56 | 34.27 | | 24.34 | 360 | 0.07 | |
| 52 | 19.56 | 34.23 | | 30 | 19.57 | 34.26 | | 24.33 | 360 | 0.11 | |
| 60 | 19.54 | 34.23 | | 50 | 19.56 | 34.23 | | 24.31 | 362 | 0.18 | |
| 70 | 19.53 | 34.25 | | 75 | 19.40 | 34.23 | | 24.35 | 359 | 0.27 | |
| 83 | 16.73 | 33.80 | | 100 | 13.92 | 33.51 | | 25.07 | 290 | 0.35 | |
| 100 | 13.92 | 33.51 | | 150 | 13.34 | 34.42 | | 25.89 | 212 | 0.48 | |
| 122 | 12.98 | 33.95 | | 200 | 12.51 | 34.57 | | 26.18 | 184 | 0.58 | |
| 147 | 13.34 | 34.41 | | 250 | 11.60 | 34.64 | | 26.40 | 164 | 0.67 | |
| 192 | 12.66 | 34.55 | | 300 | 10.36 | 34.56 | | 26.57 | 148 | 0.75 | |
| 257 | 11.46 | 34.64 | | 400 | 8.28 | 34.45 | | 26.82 | 124 | 0.90 | |
| 345 | 9.38 | 34.48 | | 500 | 7.00 | 34.44 | | 27.00 | 107 | 1.02 | |
| 462 | 7.40 | 34.44 | | 600 | 6.20 | 34.45 | | 27.11 | 96 | 1.13 | |
| 623 | 6.04 | 34.45 | | 700 | 5.60 | 34.46 | | 27.20 | 88 | 1.23 | |
| 833 | 4.90 | 34.49 | | 800 | 5.05 | 34.48 | | 27.28 | 80 | 1.32 | |
| 1125 | 3.82 | 34.54 | | 1000 | 4.25 | 34.52 | | 27.40 | 69 | 1.49 | |
| CREST; January 12, 1954; 1345 GCT; 24°13'N, 112°04.5'W; sounding, 126 fm; wind, 270°, force 2; weather, cloudy; sea, rough; wire angle, 08°. | | | | | | | | | | | |
| 0 | 19.93 | 34.35 | | 0 | 19.93 | 34.35 | | 24.30 | 363 | 0.00 | 143.30 |
| 10 | 19.96 | 34.40 | | 10 | 19.96 | 34.40 | | 24.33 | 360 | 0.04 | |
| 15 | 19.96 | 34.35 | | 20 | 19.96 | 34.34 | | 24.29 | 364 | 0.07 | |
| 20 | 19.96 | 34.34 | | 30 | 19.96 | 34.39 | | 24.33 | 360 | 0.11 | |
| 25 | 19.96 | 34.34 | | 50 | 19.18 | 34.20 | | 24.38 | 356 | 0.18 | |
| 30 | 19.96 | 34.39 | | 75 | 14.77 | 33.69 | | 25.03 | 294 | 0.26 | |
| 36 | 19.96 | 34.34 | | 100 | 12.85 | 34.03 | | 25.69 | 231 | 0.33 | |
| 46 | 19.64 | 34.26 | | 150 | 12.75 | 34.63 | | 26.18 | 184 | 0.43 | |
| 56 | 18.26 | 34.04 | | 200 | 11.76 | 34.68 | | 26.41 | 163 | 0.52 | |
| 66 | 15.56 | 33.73 | | | | | | | | | |
| 76 | 14.70 | 33.69 | | | | | | | | | |
| 96 | 13.02 | 33.92 | | | | | | | | | |
| 110 | 13.22 | 34.34 | | | | | | | | | |
| 139 | 12.96 | 34.62 | | | | | | | | | |
| 168 | 12.42 | 34.64 | | | | | | | | | |
| 203 | 11.71 | 34.69 | | | | | | | | | |
| CREST; January 12, 1954; 0014 GCT; 23°55.5'N, 111°06.5'W; sounding, 110 fm; wind, 270°, force 2; weather, cloudy; sea, moderate; wire angle, 02°. | | | | | | | | | | | |
| 0 | 20.84 | 34.62 | | 0 | 20.84 | 34.62 | | 24.27 | 366 | 0.00 | 147.20 |
| 10 | 20.84 | 34.63 | | 10 | 20.84 | 34.63 | | 24.28 | 365 | 0.04 | |
| 15 | 20.80 | 34.60 | | 20 | 20.79 | 34.60 | | 24.27 | 366 | 0.07 | |
| 20 | 20.79 | 34.60 | | 30 | 20.76 | 34.54 | | 24.23 | 370 | 0.11 | |
| 25 | 20.79 | 34.61 | | 50 | 19.10 | 34.43 | | 24.58 | 337 | 0.18 | |
| 30 | 20.76 | 34.54 | | 75 | 13.82 | 33.90 | | 25.39 | 260 | 0.26 | |
| 36 | 20.72 | 34.58 | | 100 | 13.78 | 34.20 | | 25.63 | 237 | 0.32 | |
| 46 | 20.31 | 34.54 | | 150 | 12.44 | 34.64 | | 26.24 | 179 | 0.42 | |
| 56 | 16.88 | 33.95 | | | | | | | | | |
| 66 | 15.40 | 34.02 | | | | | | | | | |
| 82 | 13.53 | 33.80 | | | | | | | | | |
| 102 | 13.67 | 34.33 | | | | | | | | | |
| 122 | 12.96 | 34.43 | | | | | | | | | |
| 156 | 12.36 | 34.67 | | | | | | | | | |

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5401

| | 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 |

147.30

CREST; January 12, 1954; 0540, 0554 GCT; 23°38'N, 111°47'W; sounding, 440 fm; wind, 270°, force 3; weather, cloudy; sea, moderate; wire angle, 08°, 07°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 21.6 | 34.86 | 0 | 21.6 | 34.86 | 24.24 | 369 | 0.00 |
| 10 | 21.60 | 34.85 | 10 | 21.60 | 34.85 | 24.24 | 369 | 0.04 |
| 30 | 21.64 | 34.85 | 20 | 21.64 | 34.85 | 24.22 | 371 | 0.07 |
| 46 | 21.64 | 34.87 | 30 | 21.64 | 34.85 | 24.22 | 371 | 0.11 |
| 56 | 21.05 | 34.72 | 50 | 21.63 | 34.85 | 24.23 | 370 | 0.19 |
| 66 | 20.07 | 34.57 | 75 | 18.70 | 34.39 | 24.65 | 330 | 0.27 |
| | | | 100 | 13.78 | 33.89 | 25.40 | 259 | 0.35 |
| 78 | 18.09 | 34.27 | 150 | 12.60 | 34.61 | 26.19 | 184 | 0.46 |
| 88 | 15.20 | 33.74 | 200 | 11.80 | 34.68 | 26.40 | 164 | 0.55 |
| 103 | 13.52 | 34.06 | 250 | 10.88 | 34.68 | 26.57 | 148 | 0.63 |
| 114 | 13.40 | 34.33 | 300 | 10.30 | 34.63 | 26.63 | 142 | 0.70 |
| 139 | 12.75 | 34.57 | 400 | 8.90 | 34.57 | 26.82 | 124 | 0.84 |
| 171 | 12.32 | 34.65 | 500 | 7.96 | 34.53 | 26.93 | 113 | 0.97 |
| 226 | 11.23 | 34.69 | 600 | 7.76 | 34.51 | 26.95 | 111 | 1.09 |
| 290 | 10.44 | 34.64 | | | | | | |
| 405 | 8.80 | 34.57 | | | | | | |
| 536 | 7.85 | 34.52 | | | | | | |
| 671 | 7.72 | 34.51 | | | | | | |

147.90

CREST; January 10, 1954; 0839 GCT; 21°36'N, 115°25'W; sounding, 2250 fm; wind, 360°, force 3; weather, partly cloudy; sea, high; wire angle, 20°.

| | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-----|------|
| 0 | 21.6 | 34.53 | 0 | 21.6 | 34.53 | 23.99 | 393 | 0.00 |
| 10 | 21.60 | 34.53 | 10 | 21.60 | 34.53 | 23.99 | 393 | 0.04 |
| 24 | 21.60 | 34.54 | 20 | 21.60 | 34.54 | 24.00 | 392 | 0.08 |
| 53 | 21.53 | 34.51 | 30 | 21.59 | 34.54 | 24.00 | 392 | 0.12 |
| 62 | 12.07 | 34.37 | 50 | 21.53 | 34.52 | 24.00 | 392 | 0.20 |
| 71 | 16.80 | 33.67 | 75 | 16.10 | 33.67 | 24.72 | 323 | 0.29 |
| 85 | 15.24 | 33.73 | 100 | 14.35 | 33.93 | 25.31 | 267 | 0.36 |
| 104 | 14.12 | 33.93 | 150 | 11.16 | 34.03 | 26.01 | 201 | 0.48 |
| 128 | 12.39 | 33.94 | 200 | 10.96 | 34.48 | 26.40 | 164 | 0.57 |
| 156 | 11.13 | 34.09 | 250 | 10.40 | 34.52 | 26.53 | 151 | 0.65 |
| 207 | 10.92 | 34.49 | 300 | 9.46 | 34.52 | 26.69 | 136 | 0.73 |
| 283 | 9.82 | 34.52 | 400 | 8.08 | 34.48 | 26.87 | 119 | 0.86 |
| 385 | 8.20 | 34.48 | 500 | 7.32 | 34.52 | 27.02 | 105 | 0.98 |
| 521 | 7.15 | 34.52 | 600 | 6.50 | 34.52 | 27.13 | 94 | 1.09 |
| 704 | 5.72 | 34.52 | 700 | 5.75 | 34.52 | 27.23 | 85 | 1.19 |
| 933 | 4.59 | 34.52 | 800 | 5.19 | 34.52 | 27.29 | 79 | 1.28 |
| 1234 | 3.54 | 34.58 | 1000 | 4.32 | 34.53 | 27.40 | 69 | 1.45 |

150.25

CREST; January 11, 1954; 1613 GCT; 23°13'N, 111°02'W; sounding, 690 fm; wind, 040°, force 3; weather, cloudy; sea, slight; wire angle, 16°.

| | | | | | | | | |
|-----|-------|-------|-----|-------|-------|-------|-----|------|
| 0 | 21.3 | 35.13 | 0 | 21.3 | 35.13 | 24.53 | 341 | 0.00 |
| 10 | 21.39 | 35.14 | 10 | 21.39 | 35.14 | 24.51 | 343 | 0.03 |
| 30 | 21.41 | 35.15 | 20 | 21.42 | 35.15 | 24.51 | 343 | 0.07 |
| 45 | 21.14 | 35.16 | 30 | 21.41 | 35.15 | 24.52 | 342 | 0.10 |
| 55 | 20.64 | 35.12 | 50 | 20.95 | 35.14 | 24.63 | 332 | 0.17 |
| 65 | 19.16 | 34.95 | 75 | 17.92 | 34.83 | 25.18 | 280 | 0.25 |
| 75 | 17.92 | 34.83 | 100 | 15.20 | 34.62 | 25.65 | 235 | 0.31 |
| 84 | 16.48 | 34.68 | 150 | 12.60 | 34.62 | 26.20 | 183 | 0.42 |
| 99 | 15.33 | 34.63 | 200 | 11.84 | 34.68 | 26.39 | 164 | 0.51 |
| 109 | 14.28 | 34.60 | 250 | 11.20 | 34.67 | 26.50 | 154 | 0.59 |
| 133 | 13.36 | 34.63 | 300 | 10.50 | 34.63 | 26.60 | 145 | 0.67 |
| 162 | 12.30 | 34.61 | 400 | 9.08 | 34.55 | 26.77 | 128 | 0.81 |
| 216 | 11.64 | 34.69 | 500 | 7.40 | 34.50 | 26.99 | 108 | 0.94 |
| 278 | 10.82 | 34.65 | 600 | 6.36 | 34.51 | 27.14 | 93 | 1.05 |
| 388 | 9.30 | 34.56 | | | | | | |
| 515 | 7.19 | 34.50 | | | | | | |
| 649 | 6.00 | 34.51 | | | | | | |

| 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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5401

CREST; January 11, 1954; 0850 GCT; 22°43'N, 111°58'W; sounding, 1900 fm; wind, 300°, force 2;
weather, clear; sea, rough; wire angle, 05°.

| | | | | | | | | | | |
|------|-------|--|--|------|-------|--|--|--|--|--|
| 0 | 20.5 | | | 0 | 20.5 | | | | | |
| 10 | 20.54 | | | 10 | 20.54 | | | | | |
| 25 | 20.54 | | | 20 | 20.55 | | | | | |
| 51 | 20.44 | | | 30 | 20.52 | | | | | |
| 62 | 20.53 | | | 50 | 20.43 | | | | | |
| 72 | 19.70 | | | 75 | 19.10 | | | | | |
| 82 | 17.18 | | | 100 | 15.00 | | | | | |
| 102 | 14.77 | | | 150 | 11.48 | | | | | |
| 127 | 12.43 | | | 200 | 10.74 | | | | | |
| 156 | 11.44 | | | 250 | 10.46 | | | | | |
| 205 | 10.74 | | | 300 | 9.50 | | | | | |
| 273 | 9.97 | | | 400 | 8.24 | | | | | |
| 374 | 8.48 | | | 500 | 7.49 | | | | | |
| 500 | 7.49 | | | 600 | 6.68 | | | | | |
| 679 | 6.00 | | | 700 | 5.82 | | | | | |
| 898 | 4.66 | | | 800 | 5.15 | | | | | |
| 1200 | 3.70 | | | 1000 | 4.28 | | | | | |
| | | | | 1200 | 3.70 | | | | | |

15040

CREST; January 10, 1954; 2238, 2252 GCT; 22°05'N, 113°17'W; sounding, 2100 fm; wind, 020°,
force 3; weather, partly cloudy; sea, very rough; wire angle, 15°, 16°.

| | | | | | | | | |
|------|-------|-------|------|--------|---------|---------|-------|--------|
| 0 | 21.4 | 34.46 | 0 | (21.4) | (34.46) | (23.99) | (393) | (0.00) |
| 10 | 21.28 | 34.45 | 10 | 21.28 | 34.45 | 24.02 | 390 | 0.04 |
| 25 | 21.24 | 34.46 | 20 | 21.24 | 34.46 | 24.04 | 388 | 0.08 |
| 55 | 21.12 | 34.43 | 30 | 21.22 | 34.46 | 24.04 | 388 | 0.12 |
| 65 | 16.84 | 33.64 | 50 | 21.15 | 34.44 | 24.05 | 387 | 0.20 |
| 75 | 15.71 | - | 75 | 15.71 | | | | |
| 90 | 15.70 | - | 100 | 14.80 | | | | |
| 110 | 12.62 | - | 150 | 12.50 | | | | |
| 133 | 12.85 | - | 200 | 11.70 | | | | |
| 160 | 12.29 | - | 250 | 10.85 | | | | |
| 212 | 11.56 | - | 300 | 9.85 | | | | |
| 287 | 10.03 | - | 400 | 8.62 | | | | |
| 390 | 8.77 | - | 500 | 7.42 | | | | |
| 526 | 7.18 | - | 600 | 6.55 | | | | |
| 710 | 5.79 | - | 700 | 5.85 | | | | |
| 942 | 4.61 | - | 800 | 5.28 | | | | |
| 1247 | 3.62 | - | 1000 | 4.38 | | | | |
| | | | 1200 | 3.72 | | | | |

15060

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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 |

486155
(8)

N. B. SCOFIELD; January 14, 1954; 1830 GCT; 29°58'N, 126°52'W; sounding, 950+ fm; wind, 320°, force 2; weather, overcast; sea, rough; wire angle, 10°.

| | | | | | | | | | | |
|-----|-------|-------|------|------|---------|---------|--------|---------|-------|--------|
| 0 | 16.58 | 33.60 | 5.68 | 0 | 16.58 | 33.60 | 5.68 | 24.56 | 339 | 0.00 |
| 78 | 16.62 | 33.62 | 5.63 | 10 | (16.58) | (33.61) | (5.67) | (24.57) | (338) | (0.03) |
| 87 | 16.56 | 33.62 | 5.62 | 20 | (16.59) | (33.61) | (5.66) | (24.56) | (339) | (0.07) |
| 97 | 15.00 | 33.41 | 5.87 | 30 | (16.60) | (33.61) | (5.66) | (24.56) | (339) | (0.10) |
| 106 | 15.24 | 33.60 | 5.78 | 50 | (16.62) | (33.62) | (5.65) | (24.57) | (338) | (0.17) |
| 116 | 14.94 | 33.60 | 5.75 | 75 | (16.63) | (33.62) | (5.65) | (24.56) | (339) | (0.26) |
| 135 | 14.33 | 33.58 | 5.65 | 100 | 15.01 | 33.43 | 5.86 | 24.78 | 318 | (0.34) |
| 154 | 13.32 | 33.53 | 5.55 | 150 | 13.60 | 33.55 | 5.58 | 25.17 | 280 | (0.49) |
| 174 | 12.08 | 33.46 | 5.50 | 200 | 10.58 | 33.50 | 5.21 | 25.70 | 230 | (0.62) |
| 194 | 10.74 | 33.48 | 5.29 | 250 | 9.10 | 33.80 | 4.55 | 26.19 | 184 | (0.72) |
| 290 | 8.10 | 33.96 | 4.02 | 300 | 7.90 | 33.97 | 3.90 | 26.50 | 154 | (0.80) |
| 387 | 6.48 | 34.00 | 2.58 | 400 | 6.29 | 34.01 | 2.35 | 26.76 | 129 | (0.95) |
| 485 | 5.46 | 34.12 | 1.24 | 500 | 5.34 | 34.14 | 1.12 | 26.98 | 109 | (1.08) |
| 582 | 4.89 | 34.22 | 0.66 | 600 | 4.81 | 34.25 | 0.60 | 27.12 | 95 | (1.18) |
| 777 | 4.28 | 34.39 | 0.45 | 700 | 4.49 | 34.34 | 0.46 | 27.22 | 85 | (1.28) |
| 975 | 3.76 | 34.47 | 0.64 | 800 | 4.21 | 34.41 | 0.45 | 27.32 | 76 | (1.37) |
| | | | | 1000 | (3.70) | (34.48) | (0.68) | (27.43) | (66) | (1.53) |

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 |
| 77.50-H | 10 | 0725 | 35°03.5' | 120°53.0' | 95 | 320° | 6 | clear | slight | 12.54 | 33.02 | | |
| 80.51-H | 10 | 1205 | 34°26.5' | 120°32.0' | 55 | 330° | 2 | clear | slight | 13.22 | 33.37 | ✓ | |
| 80.60-H | 10 | 1750 | 34°09.5' | 121°08.5' | 1100 | 320° | 4 | partly cloudy | moderate | 12.71 | 33.25 | ✓ | |
| 80.80-H | 11 | 0450 | 33°21.5' | 122°31.5' | 2400 | 320° | 2 | partly cloudy | slight | 12.95 | 33.17 | ✓ | |
| 80.100-H | 11 | 1535 | 32°32.0' | 123°56.0' | 2300 | 270° | 7 | sky obscured | very rough | 14.66 | 32.99 | | |
| 83.40-H | 9 | 0107 | 34°13.5' | 119°22.0' | 11 | 280° | 3 | partly cloudy | slight | 14.35 | 33.40 | | |
| 83.48-H | 9 | 0835 | 33°58.0' | 119°54.5' | 110 | 320° | 5 | clear | slight | 12.86 | 33.36 | | |
| 83.55-H | 9 | 1400 | 33°41.0' | 120°27.5' | 610 | 320° | 6 | clear | very rough | 12.56 | 33.42 | ✓ | |
| 85.39-H | 8 | 2247 | 34°00.0' | 119°04.5' | 245 | 290° | 3 | partly cloudy | slight | 14.44 | 33.33 | | |
| 85.40-H | 8 | 2130 | 33°57.0' | 119°11.0' | 425 | 320° | 2 | cloudy | slight | 14.74 | 33.46 | | |
| 85.50-H | 8 | 1455 | 33°27.5' | 119°55.0' | 485 | 310° | 6 | missing | very rough | 13.56 | 33.41 | | |
| 85.60-H | 8 | 0800 | 33°16.5' | 120°33.5' | 1313 | 300° | 6 | clear | rough | 12.83 | 33.23 | | |
| 87.35-H | 6 | 0650 | 33°50.0' | 118°37.5' | 330 | 360° | 2 | partly cloudy | calm | 14.24 | 33.42 | ✓ | |
| 87.45-H | 6 | 1334 | 33°28.5' | 119°21.5' | 720 | 270° | 3 | cloudy | moderate | 14.82 | 33.40 | | |
| 87.55-H | 8 | 0118 | 33°10.0' | 120°00.5' | 640 | 280° | 6 | partly cloudy | rough | 14.04 | 33.39 | | |
| 90.30-H | 14 | 0645 | 33°24.5' | 117°55.5' | 325 | 300° | 2 | clear | smooth | 14.22 | 33.35 | ✓ | |
| 90.45-H | 13 | 2240 | 32°54.5' | 118°56.0' | 940 | 090° | 3 | clear | moderate | 14.44 | 33.34 | ✓ | |
| 90.60-H | 13 | 1415 | 32°27.0' | 120°01.5' | 580 | 090° | 4 | partly cloudy | moderate | 13.13 | 33.38 | ✓ | |
| 90.80-H | 13 | 0255 | 31°44.0' | 121°19.0' | 1450 | 320° | 4 | cloudy | rough | 14.36 | 33.22 | ✓ | |
| 90.100-H | 12 | 1615 | 31°03.5' | 122°37.0' | 2260 | 320° | 6 | cloudy | very rough | 15.38 | 33.12 | | |

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 |
| 93.27-H | 14 | 1305 | 32°57.0' | 117°19.0' | 80 | 040° | 2 | clear | calm | 14.04 | 33.36 | ✓ | |
| 93.40-H | 14 | 2020 | 32°28.0' | 118°14.0' | 850 | 270° | 3 | partly cloudy | slight | 13.94 | 33.34 | ✓ | |
| 93.60-H | 15 | 0625 | 31°48.5' | 119°32.0' | 1900 | 270° | 3 | cloudy | slight | 13.68 | 33.37 | ✓ | |
| 97.30-H | 16 | 0305 | 32°15.0' | 117°08.5' | 27 | 300° | 3 | partly cloudy | slight | 13.86 | 33.35 | ✓ | |
| 97.32-H | 16 | 0145 | 32°11.5' | 117°19.0' | 680 | 290° | 2 | partly cloudy | moderate | 14.24 | 33.29 | ✓ | |
| 97.50-H | 15 | 1615 | 31°28.0' | 118°28.0' | 1400 | 270° | 3 | cloudy | slight | 13.63 | 33.54 | ✓ | |
| 100.30-H | 16 | 0825 | 31°40.5' | 116°47.0' | 235 | 290° | 2 | partly cloudy | slight | 13.90 | 33.32 | ✓ | |
| 100.40-H | 16 | 1255 | 31°21.0' | 117°28.0' | 1060 | 290° | 3 | partly cloudy | slight | 15.34 | 33.40 | ✓ | |
| 100.60-H | 16 | 2300 | 30°39.0' | 118°47.0' | 1600 | 300° | 3 | cloudy | moderate | 14.12 | 33.18 | ✓ | |
| 100.80-H | 17 | 0940 | 29°59.0' | 120°07.0' | 2225 | 270° | 4 | cloudy | slight | 14.25 | 33.18 | ✓ | |
| 103.35-H | 22 | 0600 | 30°55.0' | 116°45.0' | 1050 | 320° | 3 | clear | moderate | 13.94 | 33.39 | ✓ | |
| 103.50-H | 20 | 2300 | 30°23.0' | 117°51.0' | - | 290° | 6 | overcast | high | 13.61 | 33.24 | ✓ | |
| 107.32-H | 19 | 1940 | 30°27.0' | 116°11.5' | 340 | 240° | 4 | drizzle | moderate | 14.10 | 33.29 | ✓ | |
| 107.40-H | 20 | 0120 | 30°11.0' | 116°43.5' | 1520 | 220° | 7 | drizzle | rough | 14.54 | 33.37 | ✓ | |
| 107.60-H | 20 | 1240 | 29°26.5' | 118°02.0' | 2550 | 320° | 6 | partly cloudy | very rough | 14.20 | 33.35 | ✓ | |
| 110.35-H | 19 | 1335 | 29°46.5' | 116°00.5' | 530 | 220° | 3 | overcast | slight | 15.36 | 33.32 | ✓ | |
| 110.50-H | 19 | 0500 | 29°14.5' | 117°01.0' | 1650 | 290° | 2 | overcast | moderate | 15.40 | 33.33 | ✓ | |
| 110.70-H | 18 | 1845 | 28°35.0' | 118°19.0' | 1920 | 330° | 3 | cloudy | moderate | 15.24 | 33.35 | ✓ | |
| 110.90-H | 18 | 0905 | 27°58.0' | 119°35.0' | 2200 | 040° | 2 | partly cloudy | calm | 15.74 | 33.30 | ✓ | |

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