

CORRECTIONS MADE :
STATION POSITIONS 748

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI Cruise 5601
5-18 January 1956

and

CCOFI Cruise 5602
3-21 February 1956

SIO Reference 60-5
27 August 1959

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI CRUISE 5601
5-18 January 1956

and

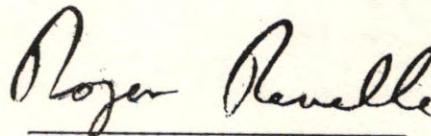
CCOFI CRUISE 5602
3-21 February 1956

Sponsored by

Marine Research Committee

SIO Reference 60-5
10 November 1959

Approved for distribution:



Roger Revelle, Director

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DISTRIBUTION LIST 57

Robert S. Reynolds
Director

INTRODUCTION

The data presented in this report were collected on the eightieth and eighty-first consecutive cruises of the California Cooperative Oceanic Fisheries Investigations program. The R/V Horizon and the R/V Stranger of the Scripps Institution participated in the eightieth cruise, and the R/V Black Douglas of the U. S. Fish and Wildlife Service and the R/V Spencer F. Baird and the R/V Stranger of the Scripps Institution participated in the eighty-first cruise.

The data are tabulated at observed depths, and the interpolated and computed values are tabulated at standard depths. They are accompanied by charts of horizontal distribution. The presentation of data in this report does not constitute publication; however, the data contained in this report have been carefully edited and no modifications should be necessary before final publication.

STANDARD PROCEDURES

Processing of the Cruise 5602 data was carried out using the method described by Klein,^{1/} Certain approximations have been introduced for the determination of the integrated pressure terms which may result in errors whose maximum values are less than 0.5 dynamic centimeter at 0 over 200 decibars, 1.0 dynamic centimeter at 0 over 500 decibars, and 2.0 dynamic centimeters at 0 over 1000 decibars. The 125-meter level was introduced into the integration to obtain greater accuracy in the determination of ΔD . The interpolated values at 125 meters are not tabulated.

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

FOOTNOTES

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

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

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

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

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

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

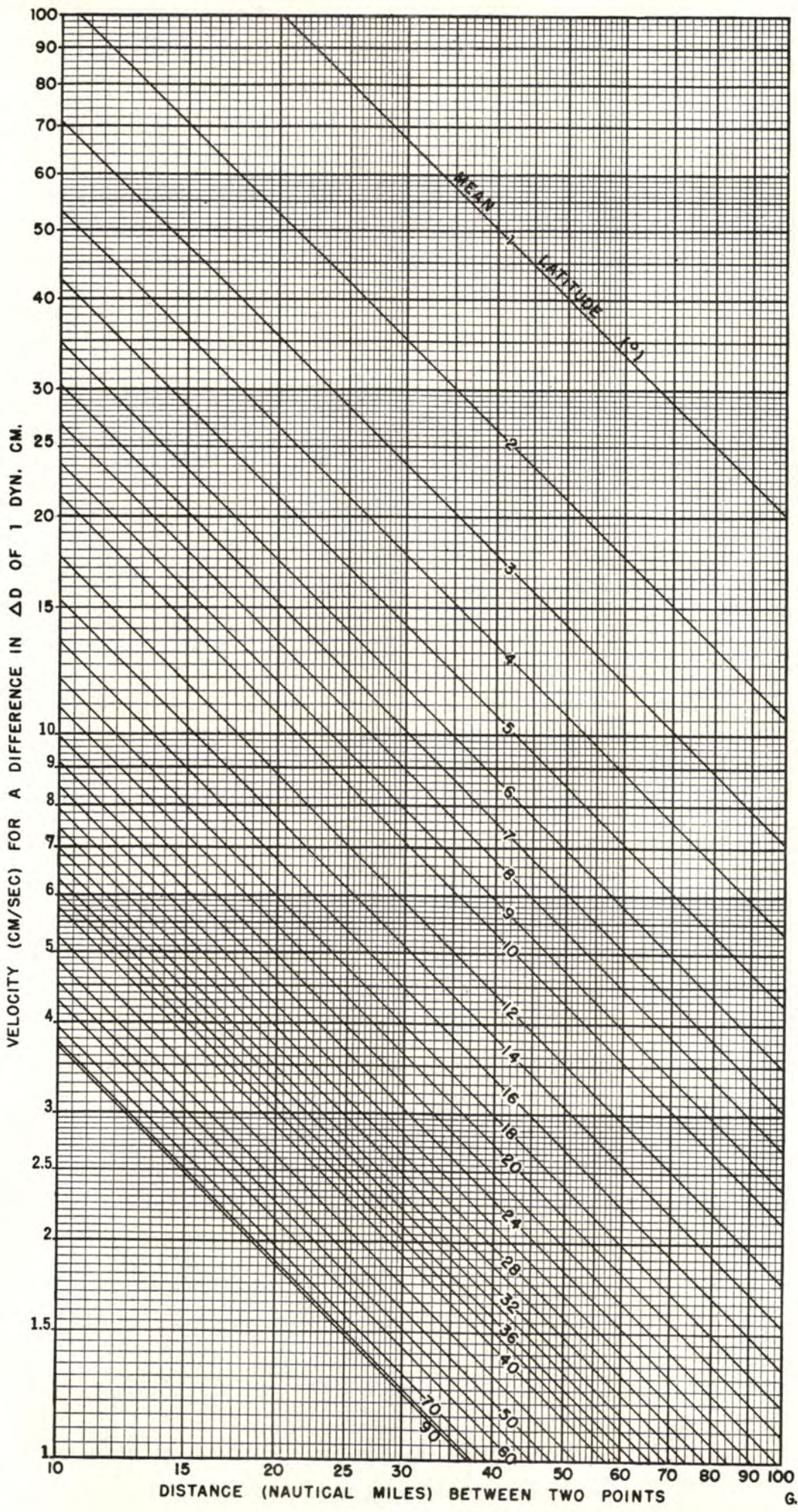
To indicate a premature or a delayed reversal of the water-sampling device which results in certain depth and property errors, the following notation is used.

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).



VELOCITY OF GEOSTROPHIC FLOW

56
 1981

TEMPERATURE AND SALINITY AT 10 METERS AT STATIONS

FIGURES

1. CCOFI Cruise 5602, 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

| Station | 05N | 10N | 15N | 20N | 25N | 30N | 35N | 40N | 45N | 50N | 55N | 60N | 65N | 70N | 75N | 80N | 85N | 90N | 95N | 100N |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 | 100-10-0 |
| 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 | 100-10-1 |
| 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 | 100-10-2 |
| 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 | 100-10-3 |
| 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 | 100-10-4 |
| 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 | 100-10-5 |
| 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 | 100-10-6 |
| 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 | 100-10-7 |
| 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 | 100-10-8 |
| 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 | 100-10-9 |
| 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 | 100-10-10 |

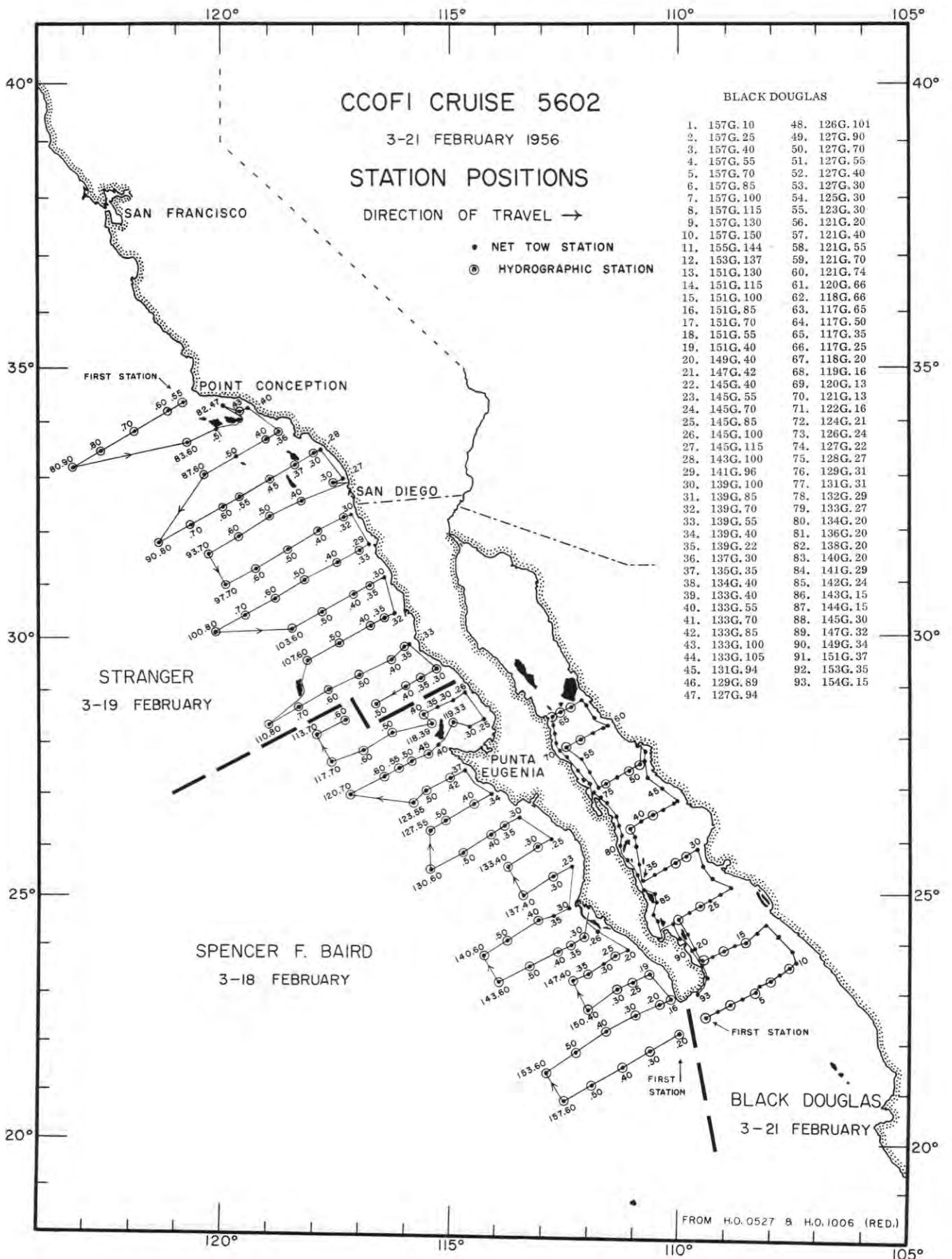


FIGURE 1

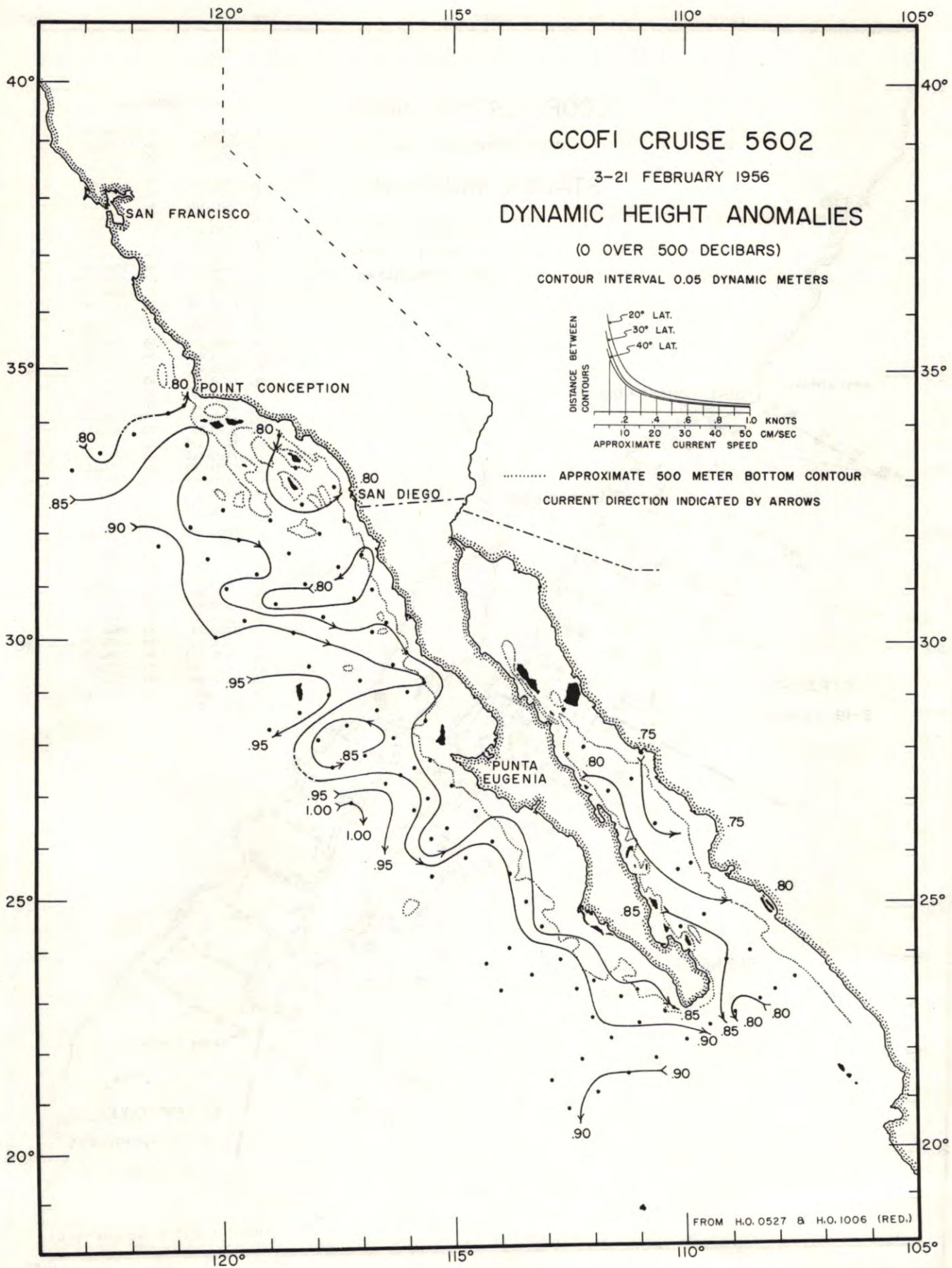


FIGURE 2

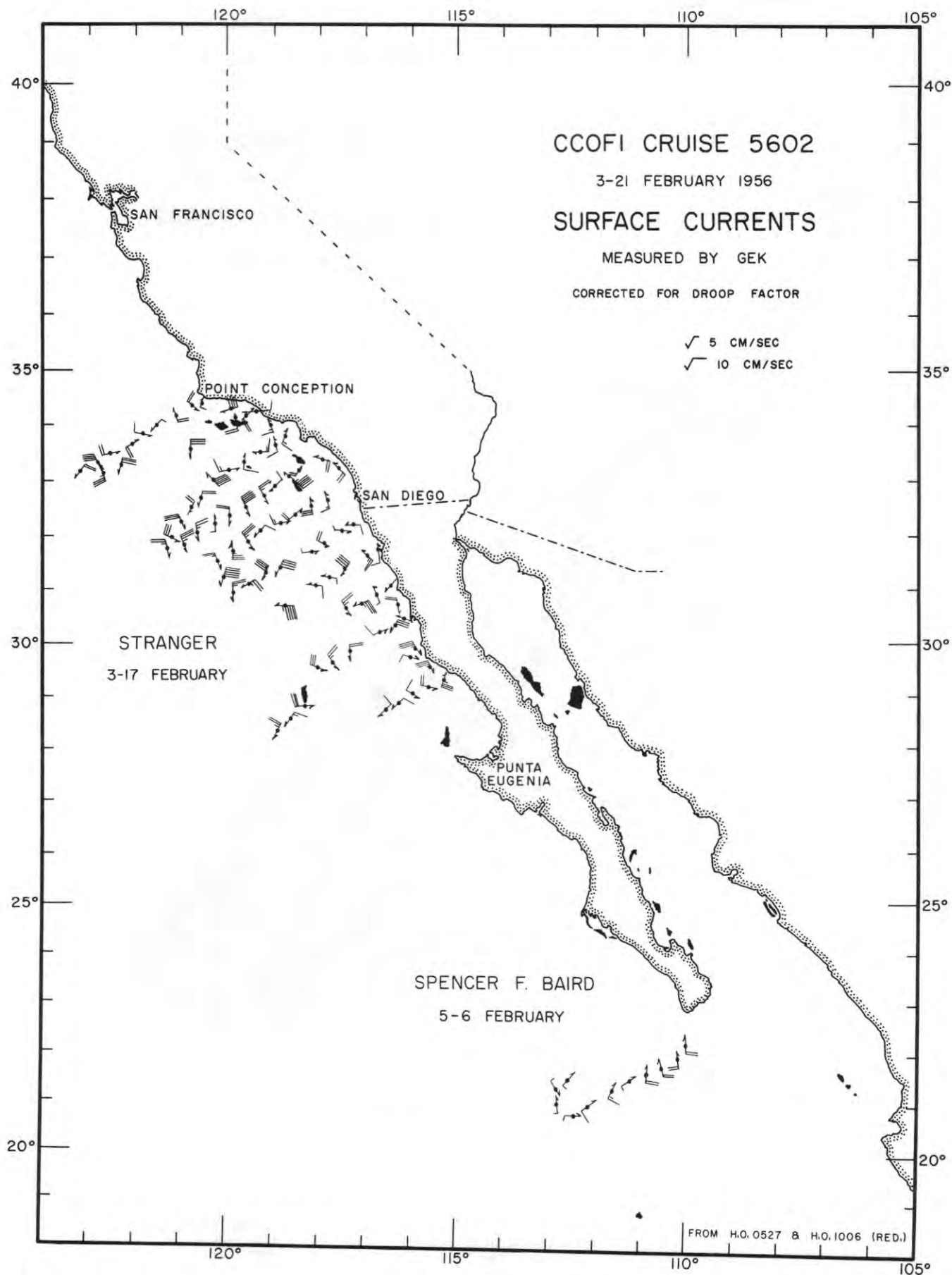


FIGURE 3

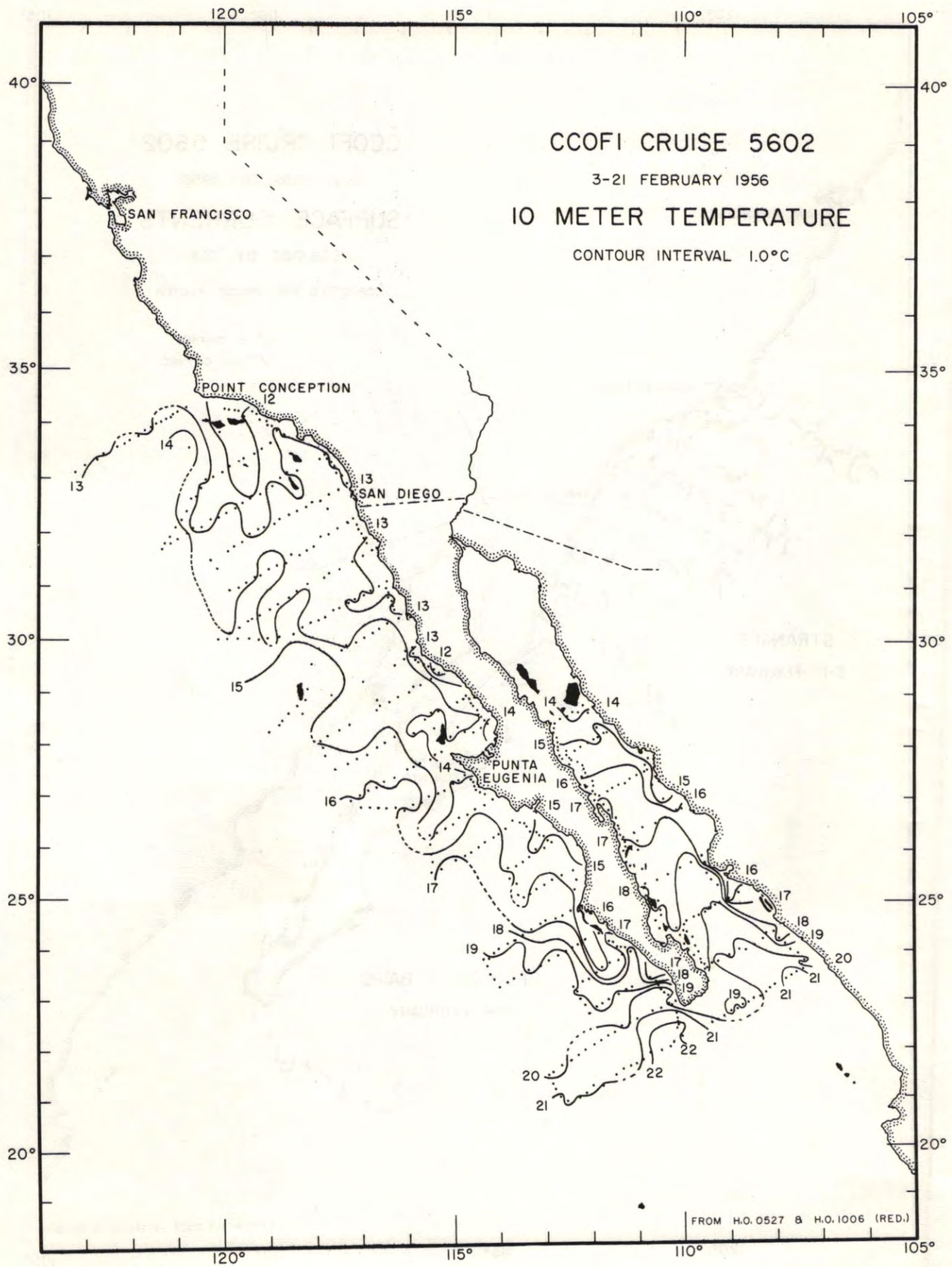


FIGURE 4

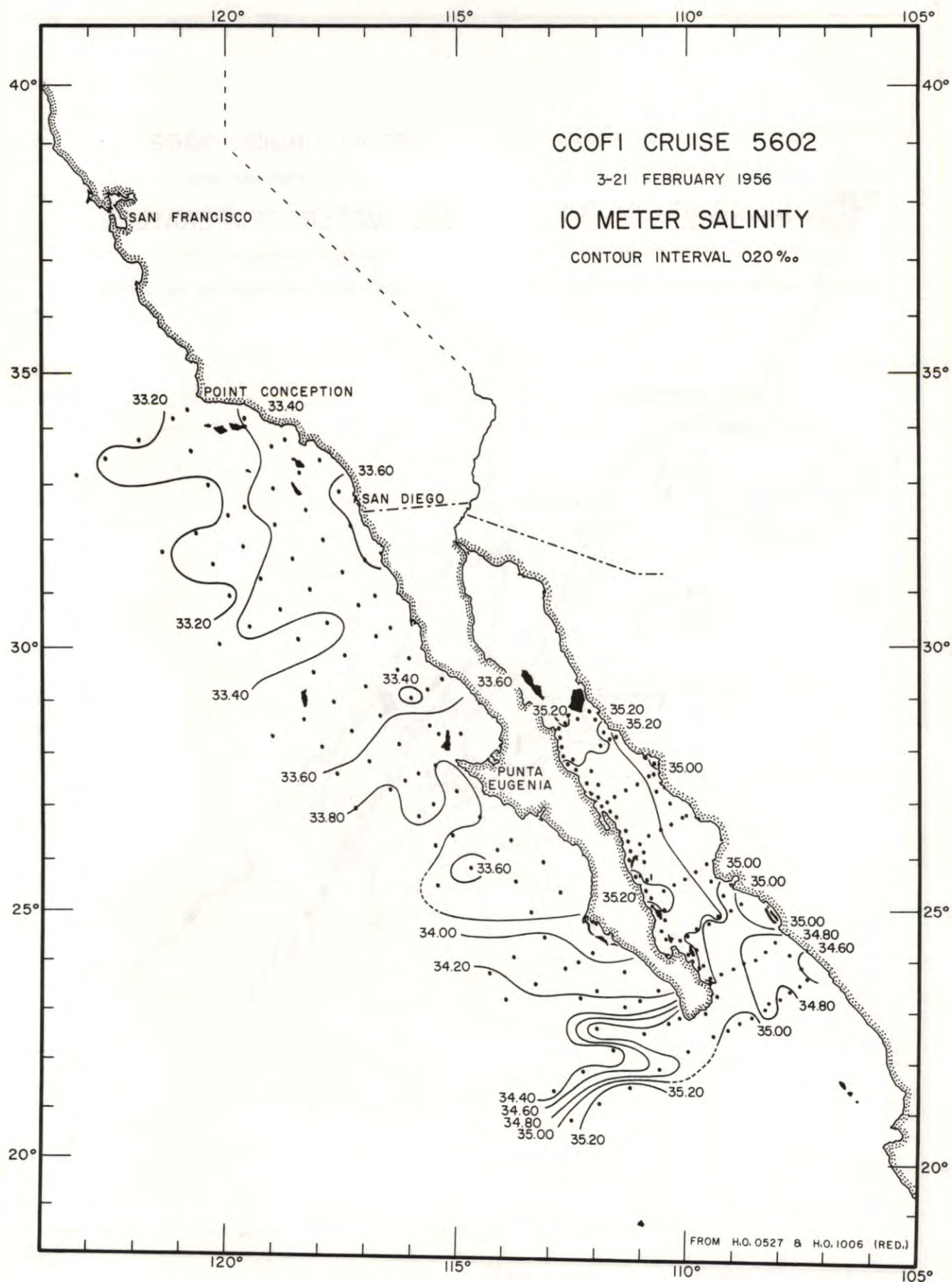
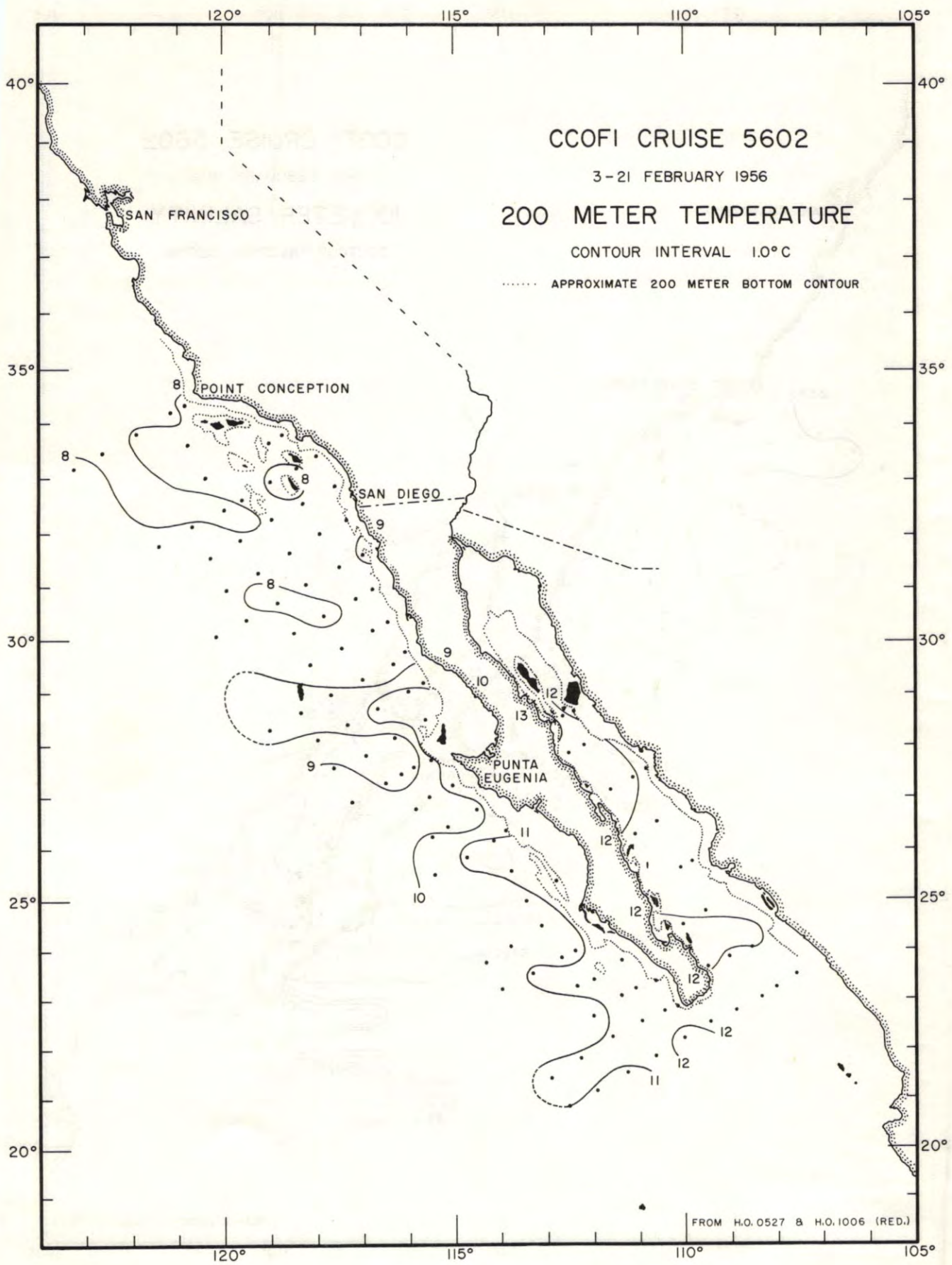


FIGURE 5



FROM H.O. 0527 & H.O. 1006 (RED.)

FIGURE 6

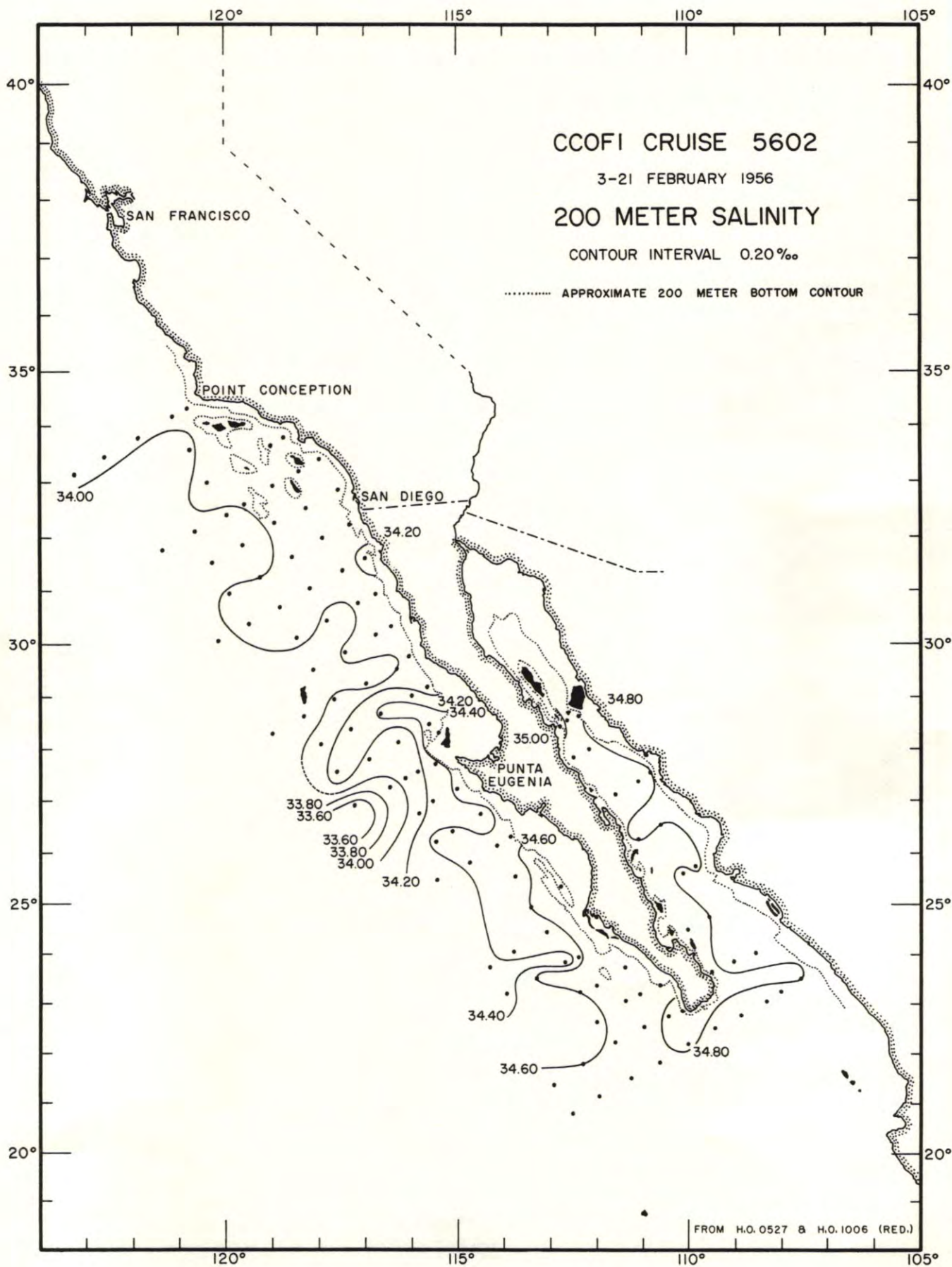


FIGURE 7

PERSONNEL
Cruise 5602

SHIPS' CAPTAINS

Cole, Walter C., R/V Spencer F. Baird
Davis, Laurence E., R/V Stranger
Forster, Charles W., R/V Black Douglas

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

R/V Black Douglas

Counts, Robert C., Fishery Research Biologist, U. S. Fish and Wildlife Service
Counts, Charles A., Visiting Observer
Hapgood, William F., Fishery Aid, U. S. Fish and Wildlife Service
Simpson, John G., Junior Scientist, Inter-American Tropical Tuna Commission
Vroomann, Andrew M., Fishery Research Biologist, U. S. Fish and Wildlife Service

R/V Spencer F. Baird

Linn, Robert J., Senior Marine Technician
Bower, Donald R., Fishery Aid, U. S. Fish and Wildlife Service
Jaynes, John M., Marine Technician
Reith, A. Dougall, Senior Marine Technician

R/V Stranger

Worrall, Charles G., Senior Marine Technician
*Cunningham, Leonard M., Jr., Senior Marine Technician
Gibson, Tom, Fishery Aid, U. S. Fish and Wildlife Service
**Kaye, Hugh R., Marine Technician

-
- * Participated in cruise 9-19 February.
** Participated in cruise 3-9 February.

SIO
CCOFI
5602

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

80.55 STRANGER; February 3, 1956; 2025 GCT; 34°18.5'N, 120°49.5'W; sounding, 400 fm; wind, 320°, force 3; weather, partly cloudy; sea, slight; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 12.95 | 33.18 | 6.10 | 295 | 0 | 12.95 | 33.18 | 6.10 | 25.02 | 295 | 0.00 |
| 10 | 12.60 | 33.30 | 6.38 | 280 | 10 | 12.60 | 33.30 | 6.38 | 25.18 | 280 | 0.03 |
| 31 | 12.42 | 33.44 | 5.98 | 267 | 20 | 12.52 | 33.39 | 6.12 | 25.26 | 272 | 0.06 |
| 41 | 12.02 | 33.46 | 5.98 | 258 | 30 | 12.45 | 33.44 | 6.00 | 25.31 | 267 | 0.08 |
| 50 | 10.76 | 33.44 | 4.90 | 237 | 50 | 10.76 | 33.44 | 4.90 | 25.63 | 237 | 0.13 |
| 60 | 10.60 | 33.48 | 4.84 | 232 | 75 | 9.68 | 33.52 | 4.23 | 25.87 | 214 | 0.19 |
| 70 | 9.88 | 33.50 | 4.35 | 218 | 100 | 9.03 | 33.68 | 3.92 | 26.10 | 192 | 0.24 |
| 79 | 9.59 | 33.54 | 4.16 | 211 | 150 | 8.76 | 33.96 | 2.54 | 26.36 | 167 | 0.33 |
| 90 | 9.26 | 33.61 | 3.95 | 201 | 200 | 8.40 | 34.05 | 2.17 | 26.49 | 155 | 0.41 |
| 98 | 9.08 | 33.67 | 3.95 | 193 | 250 | 7.72 | 34.11 | 1.96 | 26.64 | 141 | 0.49 |
| 122 | 8.76 | 33.80 | 3.52 | 178 | 300 | 7.14 | 34.16 | 1.39 | 26.76 | 129 | 0.56 |
| 151 | 8.76 | 33.96 | 2.54 | 167 | 400 | 6.46 | 34.28 | 0.76 | 26.94 | 112 | 0.68 |
| 198 | 8.42 | 34.05 | 2.19 | 155 | 500 | 6.14 | 34.32 | 0.59 | 27.03 | 104 | 0.80 |
| 255 | 7.64 | 34.11 | 1.92 | 140 | 600 | (5.61) | (34.33) | (0.44) | (27.10) | (97) | (0.90) |
| 355 | 6.70 | 34.21 | 0.90 | 120 | | | | | | | |
| 470 | 6.23 | 34.32 | 0.63 | 106 | | | | | | | |
| 590 | 5.63 | 34.33 | 0.44 | 98 | | | | | | | |

80.60 STRANGER; February 3, 1956; 2358 GCT; 34°08.5'N, 121°09.5'W; sounding, 1200 fm; wind, 310°, force 3; weather, clear; sea, slight; wire angle, 05°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.70 | 33.30 | 6.26 | 301 | 0 | 13.70 | 33.30 | 6.26 | 24.95 | 301 | 0.00 |
| 10 | 13.70 | 33.24 | 6.17 | 305 | 10 | 13.70 | 33.24 | 6.17 | 24.91 | 305 | 0.03 |
| 30 | 12.26 | 33.15 | 6.01 | 285 | 20 | 13.15 | 33.20 | 6.03 | 25.00 | 297 | 0.06 |
| 39 | 11.28 | 33.12 | 6.06 | 270 | 30 | 12.26 | 33.15 | 6.01 | 25.12 | 285 | 0.09 |
| 50 | 11.10 | 33.27 | 5.65 | 256 | 50 | 11.10 | 33.27 | 5.65 | 25.43 | 256 | 0.14 |
| 59 | 9.94 | 33.24 | 5.53 | 238 | 75 | 9.66 | 33.45 | 5.70 | 25.82 | 219 | 0.20 |
| 69 | 9.50 | 33.25 | 5.32 | 231 | 100 | 9.28 | 33.65 | 4.07 | 26.04 | 198 | 0.26 |
| 79 | 9.69 | 33.47 | 4.55 | 217 | 150 | 8.43 | 33.89 | 3.10 | 26.36 | 167 | 0.35 |
| 88 | 9.45 | 33.56 | 4.14 | 207 | 200 | 7.60 | 34.05 | 2.50 | 26.61 | 144 | 0.43 |
| 98 | 9.33 | 33.63 | 4.11 | 200 | 250 | 7.00 | 34.06 | 2.09 | 26.70 | 135 | 0.50 |
| 123 | 8.96 | 33.78 | 3.10 | 183 | 300 | 6.43 | 34.08 | 1.70 | 26.80 | 126 | 0.56 |
| 152 | 8.40 | 33.90 | 3.11 | 166 | 400 | 5.63 | 34.16 | 1.03 | 26.96 | 110 | 0.68 |
| 201 | 7.59 | 34.05 | 2.48 | 143 | 500 | 5.29 | 34.23 | 0.64 | 27.05 | 102 | 0.80 |
| 259 | 6.87 | 34.06 | 2.01 | 133 | 600 | 5.18 | 34.33 | 0.45 | 27.14 | 93 | 0.90 |
| 362 | 5.82 | 34.14 | 1.21 | 115 | | | | | | | |
| 480 | 5.36 | 34.21 | 0.79 | 104 | | | | | | | |
| 605 | 5.18 | 34.33 | 0.44 | 92 | | | | | | | |

80.70 STRANGER; February 4, 1956; 0711 GCT; 33°47'N, 121°53'W; sounding, 2000 fm; wind, 350°, force 3; weather, clear; sea, moderate; wire angle, 13°.

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 13.16 | 33.17 | | 299 | 0 | 13.16 | 33.17 | | 24.98 | 299 | 0.00 |
| 10 | 13.18 | 33.18 | | 299 | 10 | 13.18 | 33.18 | | 24.98 | 299 | 0.03 |
| 24 | 13.17 | 33.18 | | 299 | 20 | 13.18 | 33.18 | | 24.98 | 299 | 0.06 |
| 47 | 12.87 | 33.28 | | 286 | 30 | 13.10 | 33.23 | | 25.03 | 294 | 0.09 |
| 57 | 12.75 | 33.31 | | 282 | 50 | 12.84 | 33.29 | | 25.13 | 284 | 0.15 |
| 65 | 11.72 | 33.44 | | 254 | 75 | 11.05 | 33.45 | | 25.58 | 241 | 0.21 |
| 75 | 11.05 | 33.45 | | 241 | 100 | 9.80 | 33.62 | | 25.92 | 209 | 0.27 |
| 93 | 10.12 | 33.57 | | 217 | 150 | 8.82 | 33.81 | | 26.24 | 179 | 0.37 |
| 116 | 9.30 | 33.69 | | 195 | 200 | 8.12 | 34.02 | | 26.50 | 154 | 0.45 |
| 143 | 8.90 | 33.79 | | 182 | 250 | 7.55 | 34.11 | | 26.66 | 139 | 0.53 |
| 188 | 8.26 | 33.98 | | 159 | 300 | 7.20 | 34.16 | | 26.75 | 130 | 0.60 |
| 252 | 7.54 | 34.11 | | 138 | 400 | 6.54 | 34.26 | | 26.92 | 114 | 0.72 |
| 348 | 6.84 | 34.21 | | 122 | 500 | 5.85 | 34.33 | | 27.06 | 101 | 0.83 |
| 466 | 6.10 | 34.32 | | 104 | 600 | 5.32 | 34.35 | | 27.16 | 92 | 0.94 |
| 635 | 5.03 | 34.37 | | 89 | 700 | 4.80 | 34.40 | | 27.24 | 84 | 1.03 |
| 841 | 4.06 | 34.47 | | 71 | 800 | 4.30 | 34.45 | | 27.34 | 74 | 1.12 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-------------------------------------|--------------|----|---|----------------|------------|-------------------------------------|------------|--|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD | |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm ³ /g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm ³ /g | dyn. m | |

SIO
CCOFI
5602

STRANGER; February 4, 1956; 1520 GCT; 33°26.5'N, 122°36.5'W; sounding, 2000 fm; wind, 330°, force 4; weather, cloudy; sea, moderate; wire angle, 06°.

80.80

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 12.69 | 33.40 | 6.30 | 274 | 0 | 12.69 | 33.40 | 6.30 | 25.24 | 274 | 0.00 |
| 10 | 12.64 | 33.35 | 5.90 | 277 | 10 | 12.64 | 33.35 | 5.90 | 25.21 | 277 | 0.03 |
| 24 | 12.70 | 33.40 | 5.54 | 274 | 20 | 12.70 | 33.39 | 5.65 | 25.23 | 275 | 0.06 |
| 48 | 12.20 | 33.50 | 5.39 | 258 | 30 | 12.64 | 33.42 | 5.50 | 25.27 | 271 | 0.08 |
| 59 | 11.07 | 33.48 | 4.91 | 239 | 50 | 12.01 | 33.50 | 5.31 | 25.44 | 255 | 0.13 |
| 68 | 10.69 | 33.55 | 4.51 | 228 | 75 | 10.09 | 33.62 | 3.98 | 25.88 | 213 | 0.19 |
| 77 | 10.02 | 33.63 | 3.94 | 211 | 100 | 9.00 | 33.74 | 3.07 | 26.15 | 187 | 0.24 |
| 95 | 9.16 | 33.70 | 3.15 | 192 | 150 | 8.41 | 33.98 | 2.54 | 26.44 | 160 | 0.33 |
| 117 | 8.74 | 33.86 | 2.89 | 174 | 200 | 7.99 | 34.08 | 2.12 | 26.58 | 147 | 0.41 |
| 147 | 8.42 | 33.98 | 2.56 | 161 | 250 | 7.52 | 34.14 | 1.51 | 26.69 | 136 | 0.48 |
| 193 | 8.02 | 34.07 | 2.21 | 148 | 300 | 7.07 | 34.15 | 1.28 | 26.76 | 129 | 0.55 |
| 258 | 7.46 | 34.15 | 1.49 | 135 | 400 | 6.23 | 34.19 | 0.83 | 26.90 | 116 | 0.67 |
| 356 | 6.54 | 34.16 | 1.05 | 121 | 500 | 5.68 | 34.29 | 0.50 | 27.06 | 101 | 0.79 |
| 478 | 5.80 | 34.27 | 0.58 | 104 | 600 | 5.20 | 34.35 | 0.45 | 27.16 | 91 | 0.89 |
| 650 | 4.94 | 34.38 | 0.45 | 86 | 700 | 4.80 | 34.40 | 0.47 | 27.24 | 84 | 0.98 |
| 862 | 4.21 | 34.46 | 0.60 | 73 | 800 | 4.48 | 34.43 | 0.57 | 27.30 | 78 | 1.07 |
| 1159 | 3.45 | 34.52 | 0.77 | 61 | 1000 | 3.80 | 34.49 | 0.70 | 27.43 | 66 | 1.23 |

STRANGER; February 4, 1956; 2030, 2106 GCT; 33°08.5'N, 123°14'W; sounding, 2000 fm; wind, 320°, force 4; weather, cloudy; sea, moderate; wire angle, 17°, 17°.

80.90

| | | | | | | | | | | | |
|-------|-------|--------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 12.79 | 33.16 | 6.33 | 293 | 0 | 12.79 | 33.16 | 6.33 | 25.04 | 293 | 0.00 |
| 9 | 12.76 | 33.12 | 6.42 | 295 | 10 | 12.76 | 33.12 | 6.40 | 25.02 | 295 | 0.03 |
| 23 | 12.76 | 33.13 | 6.27 | 295 | 20 | 12.76 | 33.12 | 6.32 | 25.02 | 295 | 0.06 |
| | | | | | 30 | 12.76 | 33.31 | 6.33 | 25.15 | 282 | 0.09 |
| 37p | 12.74 | 33.37 | 6.34 | 277 | 50 | 12.43 | 33.40 | 6.24 | 25.28 | 270 | 0.14 |
| 47p | 12.67 | 33.40 | 6.29 | 274 | 75 | 10.79 | 33.50 | 4.92 | 25.67 | 233 | 0.21 |
| 56p | 11.72 | 33.40 | 6.24 | 257 | 100 | 9.77 | 33.58 | 4.01 | 25.90 | 211 | 0.26 |
| 64p | 11.42 | 33.29u | 5.90 | - | 150 | 8.58 | 33.91 | 2.78 | 26.35 | 168 | 0.36 |
| 80p | 10.47 | 33.53 | 4.59 | 226 | 200 | 8.05 | 34.02 | 2.23 | 26.52 | 152 | 0.44 |
| 102p | 9.70 | 33.58 | 3.97 | 210 | 250 | 7.52 | 34.09 | 1.94 | 26.65 | 140 | 0.51 |
| 128p | 8.87 | 33.78 | 3.22 | 182 | 300 | 7.06 | 34.15 | 1.68 | 26.76 | 129 | 0.58 |
| 172p | 8.34 | 33.98 | 2.47 | 159 | 400 | 6.16 | 34.21 | 1.03 | 26.92 | 114 | 0.71 |
| 231p | 7.72 | 34.06 | 2.06 | 145 | 500 | 5.49 | 34.27 | 0.82 | 27.07 | 100 | 0.82 |
| 322p | 6.82 | 34.18 | 1.53 | 124 | 600 | 5.02 | 34.34 | 0.76 | 27.18 | 90 | 0.92 |
| 433p | 5.90 | 34.22 | 0.89 | 109 | 700 | 4.72 | 34.39 | 0.57 | 27.25 | 83 | 1.01 |
| 593p | 5.08 | 34.34 | 0.78 | 91 | 800 | 4.38 | 34.44 | 0.51 | 27.32 | 76 | 1.10 |
| 792p | 4.40 | 34.43 | 0.50 | 77 | 1000 | 3.80 | 34.49 | 0.76 | 27.43 | 66 | 1.25 |
| 1078p | 3.62 | 34.51 | 0.85 | 63 | | | | | | | |

STRANGER; February 6, 1956; 2045 GCT; 34°08'N, 119°35'W; sounding, 126 fm; wind, 320°, force 2; weather, clear; sea, moderate; wire angle, 05°.

83.43

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 12.35 | 33.41 | 5.82 | 267 | 0 | 12.35 | 33.41 | 5.82 | 25.31 | 267 | 0.00 |
| 10 | 12.06 | 33.42 | 5.86 | 261 | 10 | 12.06 | 33.42 | 5.86 | 25.38 | 261 | 0.03 |
| 15 | 12.02 | 33.44 | 5.82 | 259 | 20 | 12.02 | 33.45 | 5.70 | 25.40 | 259 | 0.05 |
| 20 | 12.02 | 33.45 | 5.70 | 259 | 30 | 11.98 | 33.48 | 5.45 | 25.44 | 255 | 0.08 |
| 25 | 11.98 | 33.46 | 5.66 | 256 | 50 | 11.18 | 33.51 | 4.78 | 25.61 | 239 | 0.13 |
| 30 | 11.98 | 33.48 | 5.45 | 255 | 75 | 9.90 | 33.71 | 2.99 | 25.98 | 203 | 0.18 |
| 35 | 11.89 | 33.51 | 5.28 | 252 | 100 | 9.62 | 33.91 | 2.24 | 26.18 | 184 | 0.23 |
| 44 | 11.58 | 33.50 | 4.93 | 246 | 150 | 9.07 | 34.05 | 2.01 | 26.38 | 165 | 0.32 |
| 54 | 10.87 | 33.54 | 4.64 | 232 | | | | | | | |
| 65 | 10.50 | 33.64 | 3.77 | 218 | | | | | | | |
| 79 | 9.78 | 33.74 | 2.78 | 199 | | | | | | | |
| 98 | 9.63 | 33.90 | 2.22 | 185 | | | | | | | |
| 117 | 9.36 | 33.94 | 2.29 | 178 | | | | | | | |
| 150 | 9.07 | 34.05 | 2.01 | 165 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-----------------------------------|--------------|----|---|----------------|------------|-----------------------------------|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | m | °C | ‰ | ml/L | g/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | dyn. m | |

STRANGER; February 7, 1956; 1601 GCT; 32°59.5'N, 120°21.5'W; sounding, 390 fm; wind, 300°, force 2; weather, clear; sea, moderate; wire angle, 00°.

87.60

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.13 | 33.15 | 6.29 | 300 | 0 | 13.13 | 33.15 | 6.29 | 24.96 | 300 | 0.00 |
| 10 | 13.13 | 33.15 | 6.23 | 300 | 10 | 13.13 | 33.15 | 6.23 | 24.96 | 300 | 0.03 |
| 31 | 12.98 | 33.17 | 6.28 | 296 | 20 | 13.05 | 33.16 | 6.24 | 24.98 | 299 | 0.06 |
| 40 | 13.00 | 33.47 | 5.56 | 275 | 30 | 12.98 | 33.17 | 6.28 | 25.01 | 296 | 0.09 |
| 50 | 11.80 | 33.37 | 5.27 | 260 | 50 | 11.80 | 33.37 | 5.27 | 25.38 | 260 | 0.15 |
| 59 | 11.11 | 33.35 | 5.17 | 250 | 75 | 10.14 | 33.42 | 4.76 | 25.72 | 228 | 0.21 |
| 69 | 10.52 | 33.38 | 4.87 | 238 | 100 | 9.18 | 33.60 | 4.20 | 26.02 | 200 | 0.26 |
| 78 | 10.07 | 33.43 | 4.75 | 226 | 150 | 8.53 | 33.96 | 2.37 | 26.40 | 164 | 0.35 |
| 88 | 9.34 | 33.54 | 4.43 | 207 | 200 | 8.20 | 34.10 | 1.91 | 26.55 | 149 | 0.43 |
| 97 | 9.20 | 33.58 | 4.23 | 202 | 250 | 7.70 | 34.17 | 1.35 | 26.69 | 136 | 0.51 |
| 120 | 8.97 | 33.68 | 4.00 | 190 | 300 | 7.19 | 34.20 | 1.11 | 26.79 | 127 | 0.57 |
| 151 | 8.53 | 33.96 | 2.37 | 164 | 400 | 6.19 | 34.24 | 0.78 | 26.94 | 112 | 0.70 |
| 197 | 8.22 | 34.09 | 1.98 | 150 | 500 | 5.50 | 34.28 | 0.65 | 27.07 | 100 | 0.82 |
| 255 | 7.62 | 34.18 | 1.31 | 135 | 600 | (5.23) | (34.35) | (0.65) | (27.16) | (92) | (0.91) |
| 355 | 6.60 | 34.22 | 0.92 | 118 | | | | | | | |
| 472 | 5.63 | 34.26 | 0.64 | 103 | | | | | | | |
| 593 | 5.29 | 34.34 | 0.65 | 93 | | | | | | | |

STRANGER; February 9, 1956; 0955, 1030 GCT; 33°24.5'N, 117°54.5'W; sounding, 300 fm; wind, 040°, force 3; weather, clear; sea, moderate; wire angle, 08°, 08°.

90.30

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|-------|--------|
| 0 | 13.10 | 33.55 | 6.03 | 271 | 0 | 13.10 | 33.55 | 6.03 | 25.27 | 271 | 0.00 |
| 10 | 13.10 | 33.55 | 6.42 | 271 | 10 | 13.10 | 33.55 | 6.42 | 25.27 | 271 | 0.03 |
| 15 | 13.12 | 33.54 | 6.29 | 272 | 20 | 13.07 | 33.55 | 6.27 | 25.28 | 270 | 0.05 |
| 20 | 13.07 | 33.55 | 6.27 | 270 | 30 | 12.23 | 33.55 | 5.43 | 25.43 | 256 | 0.08 |
| 26 | 12.96 | 33.55 | 5.90 | 268 | 50 | 10.78 | 33.59 | 4.11 | 25.74 | 226 | 0.13 |
| 30 | 12.23 | 33.55 | 5.43 | 256 | 75 | 10.20 | 33.68 | 3.39 | 25.90 | 211 | 0.18 |
| 40 | 11.23 | 33.57 | 4.54 | 236 | 100 | 9.70 | 33.73 | 2.93 | 26.04 | 198 | 0.24 |
| 50 | 10.78 | 33.59 | 4.11 | 226 | 150 | 9.31 | 34.07 | 2.09 | 26.36 | 167 | 0.33 |
| 64 | 10.43 | 33.64 | 3.55 | 217 | 200 | 8.83 | 34.16 | 1.90 | 26.51 | 153 | 0.41 |
| 78 | 10.12 | 33.68 | 3.32 | 209 | 250 | 8.20 | 34.20 | 1.91 | 26.64 | 141 | 0.48 |
| 97 | 9.76 | 33.72 | 3.02 | 200 | 300 | 7.68 | 34.23 | 1.31 | 26.73 | 132 | 0.55 |
| 119 | 9.44 | 33.87 | 2.64 | 184 | 400 | (7.02) | (34.27) | (0.81) | (26.87) | (119) | (0.68) |
| 158 | 9.26 | 34.10 | 2.01 | 165 | | | | | | | |
| 195 | 8.91 | 34.16 | 1.89 | 154 | | | | | | | |
| 243 | 8.28 | 34.19 | 1.93 | 143 | | | | | | | |
| 314 | 7.58 | 34.23 | 1.14 | 130 | | | | | | | |
| 394 | 7.06 | 34.27 | 0.83 | 120 | | | | | | | |

STRANGER; February 9, 1956; 0425 GCT; 33°10.5'N, 118°23'W; sounding, 650 fm; wind, 040°, force 4; weather, clear; sea, moderate; wire angle, 07°.

90.37

| | | | | | | | | | | | |
|------|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.12 | 33.57 | 6.11 | 270 | 0 | 13.12 | 33.57 | 6.11 | 25.28 | 270 | 0.00 |
| 10 | 13.10 | 33.57 | 6.08 | 270 | 10 | 13.10 | 33.57 | 6.08 | 25.28 | 270 | 0.03 |
| 30 | 12.68 | 33.56 | 5.84 | 262 | 20 | 12.99 | 33.56 | 5.98 | 25.31 | 267 | 0.05 |
| 40 | 11.52 | 33.58 | 4.55 | 240 | 30 | 12.68 | 33.56 | 5.84 | 25.36 | 262 | 0.08 |
| 50 | 10.80 | 33.59 | 4.20 | 227 | 50 | 10.80 | 33.59 | 4.20 | 25.73 | 227 | 0.13 |
| 60 | 10.12 | 33.64 | 3.71 | 212 | 75 | 9.59 | 33.70 | 3.36 | 26.03 | 199 | 0.18 |
| 70 | 9.78 | 33.68 | 3.55 | 203 | 100 | 9.00 | 33.84 | 2.76 | 26.23 | 180 | 0.23 |
| 79 | 9.48 | 33.71 | 3.19 | 197 | 150 | 8.30 | 34.07 | 2.19 | 26.52 | 152 | 0.31 |
| 127p | 8.58 | 34.00 | 2.44 | 161 | 200 | 7.99 | 34.15 | 1.81 | 26.63 | 142 | 0.39 |
| 186p | 8.08 | 34.13 | 1.95 | 144 | 250 | 7.75 | 34.19 | 1.40 | 26.70 | 135 | 0.46 |
| 290p | 7.51 | 34.23 | 0.98 | 129 | 300 | 7.47 | 34.23 | 0.93 | 26.76 | 129 | 0.53 |
| 409p | 6.70 | 34.23 | 0.57 | 118 | 400 | 6.78 | 34.23 | 0.59 | 26.87 | 119 | 0.65 |
| 538p | 6.01 | 34.36 | 0.33 | 100 | 500 | 6.20 | 34.29 | 0.40 | 26.99 | 108 | 0.77 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

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5602

STRANGER; February 8, 1956; 0827 GCT; 32°04'N, 120°39'W; sounding, 2000 fm; wind, 320°, force 3; weather, clear; sea, moderate; wire angle, 28°.

90.70

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 12.81 | 33.26 | 6.04 | 287 | 0 | 12.81 | 33.26 | 6.04 | 25.10 | 287 | 0.00 |
| 8 | 12.84 | 33.27 | 6.14 | 287 | 10 | 12.80 | 33.27 | 6.14 | 25.11 | 286 | 0.03 |
| 21 | 12.42 | 33.27 | 6.10 | 280 | 20 | 12.42 | 33.27 | 6.10 | 25.18 | 280 | 0.06 |
| 45 | 12.20 | 33.39 | 6.00 | 266 | 30 | 12.32 | 33.29 | 6.06 | 25.22 | 276 | 0.08 |
| 54 | 11.87 | 33.44 | 5.57 | 256 | 50 | 12.02 | 33.42 | 5.78 | 25.38 | 261 | 0.14 |
| 63 | 11.59 | 33.50 | 5.09 | 247 | 75 | 11.17 | 33.52 | 5.00 | 25.62 | 238 | 0.20 |
| 71 | 11.33 | 33.52 | 5.05 | 241 | 100 | 9.75 | 33.61 | 4.13 | 25.93 | 208 | 0.26 |
| 89 | 10.20 | 33.49 | 4.59 | 224 | 150 | 8.55 | 33.92 | 2.30 | 26.36 | 167 | 0.35 |
| 135 | 8.76 | 33.90 | 2.54 | 171 | 200 | 8.04 | 33.97 | 2.11 | 26.48 | 156 | 0.43 |
| 177 | 8.32 | 33.94 | 2.16 | 162 | 250 | 7.43 | 34.04 | 1.98 | 26.62 | 143 | 0.51 |
| 236 | 7.60 | 34.02 | 2.08 | 146 | 300 | 7.03 | 34.08 | 1.45 | 26.71 | 134 | 0.58 |
| 323 | 6.84 | 34.10 | 1.27 | 130 | 400 | 6.28 | 34.15 | 0.83 | 26.87 | 119 | 0.71 |
| 432 | 6.04 | 34.18 | 0.68 | 114 | 500 | 5.65 | 34.26 | 0.43 | 27.03 | 104 | 0.83 |
| 588 | 5.25 | 34.34 | 0.34 | 93 | 600 | 5.20 | 34.35 | 0.35 | 27.16 | 91 | 0.93 |
| 783 | 4.48 | 34.44 | 0.42 | 77 | 700 | 4.80 | 34.41 | 0.38 | 27.26 | 82 | 1.02 |
| 1067 | 3.73 | 34.47 | 0.70 | 67 | 800 | 4.44 | 34.44 | 0.48 | 27.32 | 76 | 1.11 |
| | | | | | 1000 | 3.90 | 34.46 | 0.65 | 27.39 | 70 | 1.27 |

STRANGER; February 8, 1956; 0225 GCT; 31°43'N, 121°20.5'W; sounding, 2000 fm; wind, 300°, force 3; weather, partly cloudy; sea, rough; wire angle, 16°.

90.80

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 14.87 | 33.17 | 5.92 | 334 | 0 | 14.87 | 33.17 | 5.92 | 24.61 | 334 | 0.00 |
| 10 | 14.88 | 33.19 | 6.14 | 333 | 10 | 14.88 | 33.19 | 6.14 | 24.62 | 333 | 0.03 |
| 24 | 14.83 | 33.16 | 5.98 | 333 | 20 | 14.84 | 33.16 | 6.00 | 24.62 | 333 | 0.07 |
| 49 | 14.06 | 33.16 | 6.18 | 318 | 30 | 14.81 | 33.16 | 5.98 | 24.62 | 333 | 0.10 |
| 59 | 13.94 | 33.26 | 5.93 | 308 | 50 | 14.06 | 33.16 | 6.18 | 24.78 | 318 | 0.17 |
| 68 | 13.20 | 33.31 | 5.98 | 290 | 75 | 12.39 | 33.27 | 5.64 | 25.20 | 278 | 0.24 |
| 77 | 12.33 | 33.27 | - | 277 | 100 | 11.23 | 33.30 | 5.36 | 25.43 | 256 | 0.31 |
| 96 | 11.48 | 33.29 | 5.45 | 261 | 150 | 9.03 | 33.70 | 3.89 | 26.12 | 190 | 0.42 |
| 119 | 10.08 | 33.42 | 4.79 | 227 | 200 | 8.20 | 33.88 | 3.17 | 26.38 | 165 | 0.51 |
| 147 | 9.15 | 33.68 | 3.98 | 193 | 250 | 7.53 | 34.00 | 2.27 | 26.58 | 146 | 0.59 |
| 193 | 8.34 | 33.86 | 3.38 | 168 | 300 | 7.00 | 34.02 | 1.91 | 26.67 | 138 | 0.66 |
| 257 | 7.45 | 34.01 | 2.22 | 145 | 400 | 6.05 | 34.07 | 1.36 | 26.84 | 122 | 0.80 |
| 353 | 6.44 | 34.03 | 1.58 | 130 | 500 | 5.43 | 34.20 | 0.78 | 27.02 | 105 | 0.92 |
| 473 | 5.58 | 34.17 | 0.90 | 109 | 600 | 5.04 | 34.33 | 0.49 | 27.16 | 92 | 1.02 |
| 643 | 4.97 | 34.37 | 0.48 | 87 | 700 | 4.78 | 34.40 | 0.54 | 27.25 | 83 | 1.12 |
| 853 | 4.34 | 34.45 | 0.71 | 74 | 800 | 4.48 | 34.44 | 0.68 | 27.31 | 77 | 1.20 |
| 1146 | 3.52 | 34.51 | 0.95 | 62 | 1000 | 3.89 | 34.48 | 0.85 | 27.41 | 68 | 1.36 |

STRANGER; February 9, 1956; 1845 GCT; 32°50'N, 117°31'W; sounding, 400 fm; wind, 360°, force 4; weather, clear; sea, slight; wire angle, 05°.

93.30

| | | | | | | | | | | | |
|-----|-------|-------|-------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 13.35 | 33.57 | 6.10 | 274 | 0 | 13.35 | 33.57 | 6.10 | 25.24 | 274 | 0.00 |
| 5 | 13.34 | 33.64 | 6.24 | 269 | 10 | 13.32 | 33.64 | 6.24 | 25.30 | 268 | 0.03 |
| 21 | 11.66 | 33.51 | 5.19 | 247 | 20 | 12.19 | 33.54 | 5.54 | 25.45 | 254 | 0.05 |
| 31 | 10.81 | 33.56 | 4.37 | 229 | 30 | 10.81 | 33.56 | 4.37 | 25.71 | 229 | 0.08 |
| 41 | 10.32 | 33.57 | 4.13 | 220 | 50 | 10.06 | 33.60 | 3.84 | 25.87 | 214 | 0.12 |
| 50 | 10.06 | 33.60 | 3.84 | 214 | 75 | 9.35 | 33.78 | 3.30 | 26.13 | 189 | 0.17 |
| 60 | 9.74 | 33.68 | 3.40 | 203 | 100 | 9.38 | 33.95 | 2.57 | 26.26 | 177 | 0.22 |
| 70 | 9.41 | 33.71 | 3.48 | 196 | 150 | 9.08 | 34.06 | 2.10 | 26.38 | 165 | 0.31 |
| 79 | 9.33 | 33.84 | 2.91u | 185 | 200 | 8.82 | 34.18 | 1.88 | 26.52 | 152 | 0.39 |
| 89 | 9.43 | 33.91 | 2.92 | 181 | 250 | 8.62 | 34.25 | 1.50 | 26.61 | 144 | 0.46 |
| 112 | 9.30 | 33.98 | 2.39 | 174 | 300 | 8.10 | 34.23 | 1.32 | 26.68 | 137 | 0.53 |
| 141 | 9.16 | 34.05 | 2.13 | 166 | 400 | 7.20 | 34.24 | 0.91 | 26.82 | 124 | 0.66 |
| 188 | 8.87 | 34.16 | 1.93 | 154 | 500 | 6.41 | 34.31 | 0.57 | 26.98 | 109 | 0.78 |
| 246 | 8.66 | 34.25 | 1.54 | 144 | 600 | (5.78) | (34.33) | | (27.08) | (99) | (0.89) |
| 344 | 7.64 | 34.21 | 1.17 | 133 | | | | | | | |
| 459 | 6.72 | 34.30 | 0.66 | 113 | | | | | | | |
| 581 | 5.88 | 34.33 | 0.43 | 101 | | | | | | | |

310
COFI
5602

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------------------------|--------------|----|---|----------------|------------|-------------------------------------|------------|
| Z | T | S | O ₂ | $\delta_{T_3}^{-5}$ | Z | T | S | O ₂ | σ_t | $\delta_{T_3}^{-5}$ | ΔD |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm ³ /g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm ³ /g | dyn. m |

93.40 STRANGER; February 10, 1956; 0550 GCT; 32°30'N, 118°12'W; sounding, 950 fm; wind, 010°, force 3; weather, clear; sea, slight; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|-------|--------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.26 | 33.47 | 5.91 | 280 | 0 | 13.26 | 33.47 | 5.91 | 25.18 | 280 | 0.00 |
| 10 | 13.18 | 33.46 | 6.03 | 279 | 10 | 13.18 | 33.46 | 6.03 | 25.19 | 279 | 0.03 |
| 30 | 12.50 | 33.46 | 5.86 | 266 | 20 | 12.89 | 33.46 | 5.96 | 25.24 | 274 | 0.06 |
| 40 | 11.97 | 33.48 | 5.82 | 255 | 30 | 12.50 | 33.46 | 5.86 | 25.32 | 266 | 0.08 |
| 50 | 11.11 | 33.42 | 4.57a) | 245 | 50 | 11.11 | 33.42 | 4.57 | 25.54 | 245 | 0.13 |
| 61 | 10.88 | 33.48 | 4.36 | 236 | 75 | 10.22 | 33.58 | 3.40 | 25.83 | 218 | 0.19 |
| 70 | 10.41 | 33.53 | 3.82 | 225 | 100 | 9.57 | 33.77 | 2.72 | 26.09 | 193 | 0.24 |
| 80 | 10.07 | 33.64 | 3.12 | 211 | 150 | 8.98 | 34.03 | 2.33 | 26.38 | 165 | 0.33 |
| 89 | 9.76 | 33.64 | 3.17 | 206 | 200 | 8.55 | 34.12 | 1.89 | 26.52 | 152 | 0.41 |
| 99 | 9.58 | 33.77 | 2.76 | 193 | 250 | 7.95 | 34.19 | 1.29 | 26.67 | 138 | 0.49 |
| 122 | 9.18 | 33.90 | 2.43 | 177 | 300 | 7.43 | 34.22 | 0.94 | 26.76 | 129 | 0.55 |
| 150 | 8.98 | 34.03 | 0.51r | 165 | 400 | 6.74 | 34.29 | 0.60 | 26.92 | 114 | 0.68 |
| 198 | 8.59 | 34.11 | 1.91 | 153 | 500 | 6.16 | 34.34 | 0.40 | 27.04 | 103 | 0.79 |
| 255 | 7.88 | 34.19 | 1.27 | 138 | 600 | (5.71) | (34.34) | (0.31) | (27.09) | (98) | (0.90) |
| 354 | 7.02 | 34.25 | 0.73 | 121 | | | | | | | |
| 469 | 6.31 | 34.34 | 0.44 | 106 | | | | | | | |
| 591 | 5.77 | 34.34 | 0.31 | 98 | | | | | | | |

93.50 STRANGER; February 10, 1956; 1040 GCT; 32°12'N, 118°54.5'W; sounding, 850 fm; wind, 320°, force 4; weather, clear; sea, slight; wire angle, 02°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.70 | 33.42 | 5.94 | 292 | 0 | 13.70 | 33.42 | 5.94 | 25.05 | 292 | 0.00 |
| 10 | 13.68 | 33.41 | 5.84 | 292 | 10 | 13.68 | 33.41 | 5.84 | 25.05 | 292 | 0.03 |
| 31 | 13.71 | 33.42 | 5.97 | 292 | 20 | 13.69 | 33.41 | 5.90 | 25.05 | 292 | 0.06 |
| 40 | 13.60 | 33.41 | 5.82 | 290 | 30 | 13.71 | 33.42 | 5.97 | 25.05 | 292 | 0.09 |
| 50 | 11.84 | 33.40 | 5.02 | 259 | 50 | 11.84 | 33.40 | 5.02 | 25.40 | 259 | 0.14 |
| 60 | 11.47 | 33.38 | 4.59 | 254 | 75 | 10.22 | 33.42 | 4.25 | 25.70 | 230 | 0.20 |
| 69 | 10.42 | 33.41 | 4.39 | 234 | 100 | 9.52 | 33.62 | 3.50 | 25.98 | 203 | 0.26 |
| 79 | 10.14 | 33.43 | 4.18 | 228 | 150 | 8.61 | 33.93 | 2.60 | 26.36 | 167 | 0.35 |
| 88 | 9.86 | 33.58 | 3.58 | 212 | 200 | 8.07 | 34.04 | 2.08 | 26.53 | 151 | 0.43 |
| 98 | 9.55 | 33.62 | 3.52 | 204 | 250 | 7.72 | 34.12 | 1.63 | 26.65 | 140 | 0.51 |
| 121 | 9.18 | 33.77 | 3.13 | 187 | 300 | 7.40 | 34.18 | 1.16 | 26.73 | 132 | 0.58 |
| 151 | 8.61 | 33.93 | 2.60 | 167 | 400 | 6.74 | 34.24 | 0.69 | 26.88 | 118 | 0.71 |
| 199 | 8.09 | 34.04 | 2.09 | 151 | 500 | 6.12 | 34.28 | 0.51 | 26.99 | 108 | 0.82 |
| 255 | 7.67 | 34.13 | 1.53 | 139 | 600 | (5.71) | (34.38) | (0.39) | (27.12) | (95) | (0.93) |
| 355 | 7.02 | 34.23 | 0.78 | 123 | | | | | | | |
| 472 | 6.23 | 34.26 | 0.58 | 111 | | | | | | | |
| 594 | 5.71 | 34.37 | 0.40 | 96 | | | | | | | |

93.60 STRANGER; February 10, 1956; 1606 GCT; 31°50'N, 119°34'W; sounding, 1200 fm; wind, 330°, force 4; weather, partly cloudy; sea, moderate; wire angle, 21°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.28 | 33.30 | 6.35 | 292 | 0 | 13.28 | 33.30 | 6.35 | 25.05 | 292 | 0.00 |
| 10 | 13.28 | 33.29 | 6.25 | 294 | 10 | 13.28 | 33.29 | 6.25 | 25.03 | 294 | 0.03 |
| 29 | 13.18 | 33.30 | 6.28 | 290 | 20 | 13.21 | 33.30 | 6.26 | 25.05 | 292 | 0.06 |
| 38 | 13.08 | 33.28 | 6.15 | 290 | 30 | 13.17 | 33.30 | 6.28 | 25.07 | 290 | 0.09 |
| 47 | 13.04 | 33.33 | 6.25 | 286 | 50 | 12.92 | 33.33 | 6.20 | 25.13 | 284 | 0.15 |
| 56 | 12.60 | 33.31 | 5.98 | 279 | 75 | 11.72 | 33.41 | 5.60 | 25.43 | 256 | 0.21 |
| 66 | 12.16 | 33.31 | 5.99 | 271 | 100 | 10.05 | 33.34 | 4.47 | 25.67 | 233 | 0.27 |
| 73 | 11.72 | 33.38 | 5.64 | 258 | 150 | 8.68 | 33.80 | 3.02 | 26.25 | 178 | 0.38 |
| 81 | 11.79 | 33.47 | 5.51 | 252 | 200 | 8.03 | 33.96 | 2.53 | 26.48 | 156 | 0.46 |
| 91 | 10.34 | 33.36 | 4.66 | 236 | 250 | 7.42 | 34.03 | 2.00 | 26.62 | 143 | 0.54 |
| 112 | 9.77 | 33.37 | 4.31 | 226 | 300 | 6.87 | 34.09 | 1.60 | 26.74 | 131 | 0.61 |
| 138 | 8.92 | 33.69 | 3.21 | 190 | 400 | 6.24 | 34.21 | 0.70 | 26.92 | 114 | 0.74 |
| 180 | 8.32 | 33.92 | 2.76 | 164 | 500 | 5.86 | 34.29 | 0.57 | 27.04 | 103 | 0.85 |
| 232 | 7.61 | 34.01 | 2.15 | 147 | | | | | | | |
| 323 | 6.70 | 34.11 | 1.48 | 127 | | | | | | | |
| 430 | 6.16 | 34.23 | 0.64 | 112 | | | | | | | |
| 547 | 5.67 | 34.32 | 0.54 | 99 | | | | | | | |

a) Mean value of 4.54 and 4.60 ml/L.

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|---|--------------|----|---|----------------|------------|---|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | $\frac{10^{-5} \text{ cm}^3}{\text{g}}$ | m | °C | ‰ | ml/L | g/L | $\frac{10^{-5} \text{ cm}^3}{\text{g}}$ | dyn. m | |

STRANGER; February 10, 1956; 2058 GCT; 31°30'N, 120°15.5'W; sounding, 2000 fm; wind, 310°, force 4; weather, partly cloudy; sea, moderate; wire angle, 19°.

93.70

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 13.27 | 33.28 | 6.13 | 294 | 0 | 13.27 | 33.28 | 6.13 | 25.03 | 294 | 0.00 |
| 9 | 13.14 | 33.31 | 5.91 | 289 | 10 | 13.14 | 33.31 | 5.92 | 25.08 | 289 | 0.03 |
| 28 | 13.04 | 33.24 | 6.15 | 293 | 20 | 13.10 | 33.28 | 6.11 | 25.06 | 291 | 0.06 |
| 43 | 12.97 | 33.30 | 5.97 | 286 | 30 | 13.03 | 33.24 | 6.15 | 25.04 | 293 | 0.09 |
| 52 | 12.94 | 33.30 | 6.00 | 285 | 50 | 12.94 | 33.30 | 6.00 | 25.11 | 286 | 0.14 |
| 61 | 12.93 | 33.30 | 6.03 | 285 | 75 | 12.80 | 33.51 | 5.51 | 25.30 | 268 | 0.21 |
| 70 | 12.62 | 33.31 | 5.68 | 280 | 100 | 11.31 | 33.45 | 5.13 | 25.53 | 246 | 0.28 |
| 78 | 12.84 | 33.58a) | 5.46 | 264 | 150 | 9.20 | 33.66 | 3.52 | 26.06 | 196 | 0.39 |
| 91 | 11.90 | 33.49 | 5.42 | 253 | 200 | 8.38 | 33.93 | 2.70 | 26.40 | 164 | 0.48 |
| 99 | 11.38 | 33.45 | 5.18 | 247 | 250 | 7.82 | 34.08 | 1.93 | 26.61 | 144 | 0.56 |
| 123 | 10.04 | 33.47 | 4.44 | 223 | 300 | 7.44 | 34.17 | 1.47 | 26.72 | 133 | 0.63 |
| 146 | 9.26 | 33.64 | 3.61 | 199 | 400 | 6.47 | 34.23 | 0.90 | 26.90 | 116 | 0.76 |
| 193 | 8.44 | 33.90 | 2.80 | 167 | 500 | 5.53 | 34.26 | 0.37 | 27.05 | 102 | 0.88 |
| 248 | 7.84 | 34.08 | 1.97 | 145 | 600 | (5.43) | (34.35) | | (27.12) | (95) | (0.98) |
| 347 | 7.10 | 34.23 | 1.10 | 123 | | | | | | | |
| 460 | 5.74 | 34.23 | 0.64 | 107 | | | | | | | |
| 583 | 5.43 | 34.34 | 0.30 | 96 | | | | | | | |

STRANGER; February 11, 1956; 2253 GCT; 32°11.5'N, 117°15.5'W; sounding, 600 fm; wind, 310°, force 4; weather, clear; sea, moderate; wire angle, 05°.

97.32

| | | | | | | | | | | | |
|-----|-------|--------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.87 | 33.59 | 5.96 | 283 | 0 | 13.87 | 33.59 | 5.96 | 25.14 | 283 | 0.00 |
| 9 | 13.69 | 33.60 | 5.91 | 279 | 10 | 13.68 | 33.60 | 5.92 | 25.19 | 279 | 0.03 |
| 30 | 13.54 | 33.58 | 5.93 | 277 | 20 | 13.62 | 33.59 | 5.93 | 25.20 | 278 | 0.06 |
| 41 | 13.21 | 33.75u | 5.80 | - | 30 | 13.54 | 33.58 | 5.93 | 25.21 | 277 | 0.08 |
| 50 | 11.70 | 33.53 | 4.77 | 247 | 50 | 11.70 | 33.53 | 4.77 | 25.52 | 247 | 0.14 |
| 61 | 11.28 | 33.55 | 4.39 | 238 | 75 | 10.38 | 33.57 | 3.96 | 25.80 | 221 | 0.19 |
| 69 | 10.59 | 33.57 | 3.98 | 225 | 100 | 9.51 | 33.76 | 3.26 | 26.08 | 194 | 0.25 |
| 79 | 10.25 | 33.58 | 3.93 | 218 | 150 | 8.99 | 33.94 | 2.56 | 26.31 | 172 | 0.34 |
| 89 | 9.92 | 33.62 | 3.76 | 210 | 200 | 8.52 | 34.11 | 2.03 | 26.52 | 152 | 0.42 |
| 98 | 9.58 | 33.73 | 3.32 | 196 | 250 | 7.98 | 34.18 | 1.70 | 26.66 | 139 | 0.50 |
| 122 | 9.40 | 33.80 | 2.90 | 189 | 300 | 7.48 | 34.22 | 1.30 | 26.75 | 130 | 0.57 |
| 151 | 8.99 | 33.95 | 2.56 | 171 | 400 | 6.79 | 34.28 | 0.80 | 26.90 | 116 | 0.69 |
| 198 | 8.55 | 34.11 | 2.05 | 152 | 500 | 6.30 | 34.34 | 0.50 | 27.01 | 106 | 0.81 |
| 256 | 7.96 | 34.18 | 1.66 | 139 | 600 | (5.81) | (34.40) | (0.35) | (27.12) | (95) | (0.91) |
| 355 | 7.03 | 34.25 | 0.97 | 121 | | | | | | | |
| 471 | 6.42 | 34.32 | 0.57 | 108 | | | | | | | |
| 593 | 5.89 | 34.40 | 0.35 | 96 | | | | | | | |

STRANGER; February 11, 1956; 1738, 1807 GCT; 31°55.5'N, 117°50.5'W; sounding, 510 fm; wind, 320°, force 2; weather, partly cloudy; sea, moderate; wire angle, 11°, 10°.

97.40

| | | | | | | | | | | | |
|-----|-------|-------|-------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.37 | 33.58 | 6.00 | 274 | 0 | 13.37 | 33.58 | 6.00 | 25.24 | 274 | 0.00 |
| 10 | 13.26 | 33.57 | 5.99 | 272 | 10 | 13.26 | 33.57 | 5.99 | 25.26 | 272 | 0.03 |
| 29 | 13.20 | 33.57 | 5.93 | 271 | 20 | 13.22 | 33.57 | 5.95 | 25.26 | 272 | 0.05 |
| 41 | 13.12 | 33.57 | 5.90 | 270 | 30 | 13.19 | 33.57 | 5.91 | 25.27 | 271 | 0.08 |
| 49 | 13.13 | 33.57 | 6.00u | 270 | 50 | 13.13 | 33.57 | 5.90 | 25.28 | 270 | 0.14 |
| 58 | 12.89 | 33.57 | 5.88 | 265 | 75 | 11.57 | 33.53 | 5.11 | 25.55 | 244 | 0.20 |
| 68 | 12.15 | 33.53 | 5.66 | 255 | 100 | 10.00 | 33.58 | 4.01 | 25.87 | 214 | 0.26 |
| 78 | 11.38 | 33.53 | 4.96 | 241 | 150 | 8.96 | 33.96 | 2.48 | 26.33 | 170 | 0.35 |
| 88 | 10.85 | 33.53 | 4.51 | 232 | 200 | 8.59 | 34.10 | 2.06 | 26.50 | 154 | 0.43 |
| 97 | 10.19 | 33.56 | 4.15 | 219 | 250 | 8.19 | 34.21 | 0.70 | 26.65 | 140 | 0.51 |
| | | | | | 300 | 7.81 | 34.29 | 1.24 | 26.76 | 129 | 0.58 |
| 120 | 9.34 | 33.71 | 3.42 | 194 | 400 | 7.00 | 34.33 | 0.75 | 26.92 | 114 | 0.71 |
| 125 | 9.16 | 33.85 | 2.82 | 181 | 500 | 6.21 | 34.34 | 0.49 | 27.03 | 104 | 0.82 |
| 168 | 8.84 | 33.99 | 2.33 | 166 | | | | | | | |
| 222 | 8.40 | 34.16 | 1.94 | 147 | | | | | | | |
| 318 | 7.66 | 34.31 | 1.14 | 125 | | | | | | | |
| 429 | 6.73 | 34.34 | 0.61 | 111 | | | | | | | |
| 551 | 5.88 | 34.34 | 0.41 | 100 | | | | | | | |

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

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

97.50

STRANGER; February 11, 1956; 1233 GCT; 31°35.5'N, 118°31'W; sounding, 1300 fm; wind, 320°, force 3; weather, clear; sea, moderate; wire angle, 16°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.22 | 33.44 | 6.25 | 282 | 0 | 13.22 | 33.44 | 6.25 | 25.15 | 282 | 0.00 |
| 10 | 13.22 | 33.47 | 6.29 | 279 | 10 | 13.22 | 33.47 | 6.29 | 25.19 | 279 | 0.03 |
| 29 | 13.00 | 33.48 | 6.33 | 274 | 20 | 13.13 | 33.48 | 6.33 | 25.22 | 276 | 0.06 |
| 38 | 12.87 | 33.41 | 6.27 | 277 | 30 | 13.00 | 33.48 | 6.32 | 25.24 | 274 | 0.08 |
| 49 | 12.82 | 33.41 | 6.09 | 276 | 50 | 12.80 | 33.41 | 6.06 | 25.23 | 275 | 0.14 |
| 54 | 12.16 | 33.45 | 5.47 | 260 | 75 | 10.44 | 33.40 | 4.37 | 25.65 | 235 | 0.20 |
| 68 | 11.00 | 33.41 | 4.56 | 243 | 100 | 9.77 | 33.72 | 2.76 | 26.02 | 200 | 0.26 |
| 77 | 10.40 | 33.40 | 4.32 | 234 | 150 | 9.04 | 33.89 | 2.58 | 26.27 | 176 | 0.35 |
| 86 | 10.04 | 33.52 | 3.47 | 220 | 200 | 8.28 | 34.06 | 2.70 | 26.52 | 152 | 0.44 |
| 96 | 9.82 | 33.70 | 2.78 | 203 | 250 | 8.05 | 34.14 | 1.84 | 26.62 | 143 | 0.51 |
| 118 | 9.52 | 33.76 | 2.76 | 193 | 300 | 7.48 | 34.19 | 1.50 | 26.73 | 132 | 0.58 |
| 145 | 9.15 | 33.86 | 2.57 | 180 | 400 | 6.56 | 34.28 | 0.91 | 26.93 | 113 | 0.71 |
| 191 | 8.38 | 34.05 | 2.72 | 154 | 500 | 5.92 | 34.34 | 0.51 | 27.07 | 100 | 0.82 |
| 246 | 8.12 | 34.14 | 1.94 | 144 | | | | | | | |
| 344 | 7.02 | 34.22 | 1.27 | 124 | | | | | | | |
| 456 | 6.12 | 34.32 | 0.64 | 104 | | | | | | | |
| 575 | 5.57 | 34.37 | 0.40 | 94 | | | | | | | |

97.60

STRANGER; February 11, 1956; 0705 GCT; 31°13.5'N, 119°11.5'W; sounding, 2000 fm; wind, 340°, force 4; weather, clear; sea, very rough; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.06 | 33.50 | 5.80 | 293 | 0 | 14.06 | 33.50 | 5.80 | 25.04 | 293 | 0.00 |
| 10 | 14.06 | 33.45 | 5.95 | 296 | 10 | 14.06 | 33.45 | 5.95 | 25.01 | 296 | 0.03 |
| 29 | 14.08 | 33.47 | 5.95 | 296 | 20 | 14.07 | 33.45 | 5.95 | 25.01 | 296 | 0.06 |
| 44 | 14.02 | 33.51 | 5.88 | 292 | 30 | 14.08 | 33.47 | 5.95 | 25.01 | 296 | 0.09 |
| 54 | 13.98 | 33.48 | 5.87 | 293 | 50 | 14.00 | 33.51 | 5.88 | 25.05 | 292 | 0.15 |
| 63 | 13.04 | 33.44 | 5.40 | 278 | 75 | 11.76 | 33.40 | 4.84 | 25.42 | 257 | 0.22 |
| 74 | 11.76 | 33.40 | 4.87 | 257 | 100 | 10.44 | 33.44 | 4.00 | 25.72 | 228 | 0.28 |
| 83 | 11.20 | 33.44 | 4.61 | 245 | 150 | 9.16 | 33.81 | 2.73 | 26.18 | 184 | 0.38 |
| 97 | 10.48 | 33.44 | 4.11 | 232 | 200 | 8.40 | 34.00 | 2.40 | 26.45 | 159 | 0.47 |
| 105 | 10.17 | 33.48 | 3.90 | 224 | 250 | 7.84 | 34.10 | 1.85 | 26.61 | 144 | 0.55 |
| 130 | 9.53 | 33.72 | 3.05 | 196 | 300 | 7.44 | 34.17 | 1.31 | 26.72 | 133 | 0.62 |
| 158 | 9.01 | 33.84 | 2.68 | 180 | 400 | 6.78 | 34.26 | 0.75 | 26.89 | 117 | 0.75 |
| 210 | 8.28 | 34.03 | 2.33 | 155 | 500 | 6.17 | 34.31 | 0.48 | 27.01 | 106 | 0.86 |
| 272 | 7.65 | 34.13 | 1.60 | 139 | 600 | 5.60 | 34.36 | 0.41 | 27.12 | 95 | 0.97 |
| 381 | 6.92 | 34.25 | 0.81 | 120 | | | | | | | |
| 505 | 6.14 | 34.31 | 0.48 | 105 | | | | | | | |
| 639 | 5.35 | 34.39 | 0.40 | 90 | | | | | | | |

97.70

STRANGER; February 11, 1956; 0143 GCT; 30°55.5'N, 119°51.5'W; sounding, 2000 fm; wind, 340°, force 4; weather, cloudy; sea, moderate; wire angle, 18°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|-----|--------|---------|--------|---------|-------|--------|
| 0 | 13.88 | 33.21 | 6.09 | 311 | 0 | 13.88 | 33.21 | 6.09 | 24.85 | 311 | 0.00 |
| 10 | 13.85 | 33.19 | 6.27 | 312 | 10 | 13.85 | 33.19 | 6.27 | 24.84 | 312 | 0.03 |
| 29 | 13.51 | 33.30 | 6.04 | 297 | 20 | 13.77 | 33.21 | 6.21 | 24.88 | 308 | 0.06 |
| 43 | 13.23 | 33.33 | 6.08 | 290 | 30 | 13.50 | 33.31 | 6.04 | 25.01 | 296 | 0.09 |
| 53 | 13.09 | 33.33 | 5.92 | 287 | 50 | 13.14 | 33.33 | 5.96 | 25.09 | 288 | 0.15 |
| 70p | 11.84 | 33.36 | 5.73 | 262 | 75 | 11.43 | 33.37 | 5.55 | 25.45 | 254 | 0.22 |
| 91p | 10.38 | 33.39 | 4.94 | 234 | 100 | 9.88 | 33.47 | 4.43 | 25.80 | 221 | 0.28 |
| 132p | 8.94 | 33.76 | 3.24 | 184 | 150 | 8.62 | 33.88 | 2.86 | 26.32 | 171 | 0.38 |
| 181p | 8.26 | 34.02 | 2.50 | 155 | 200 | 8.06 | 34.04 | 2.34 | 26.53 | 151 | 0.46 |
| 270p | 7.45 | 34.10 | 1.89 | 138 | 250 | 7.60 | 34.08 | 2.01 | 26.64 | 141 | 0.53 |
| 376p | 6.74 | 34.25 | 0.78 | 117 | 300 | 7.22 | 34.14 | 1.52 | 26.73 | 132 | 0.60 |
| 493p | 6.17 | 34.33 | 0.44 | 104 | 400 | 6.60 | 34.27 | 0.69 | 26.92 | 114 | 0.73 |
| | | | | | 500 | (6.11) | (34.33) | (0.40) | (27.04) | (103) | (0.84) |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

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STRANGER; February 12, 1956; 0633 GCT; 31°35'N, 116°58.5'W; sounding, 700 fm; wind, 320°, force 2; weather, clear; sea, moderate; wire angle, 00°.

100.33

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|-------|-------|--------|
| 0 | 12.56 | 33.60 | 6.35 | 257 | 0 | 12.56 | 33.60 | 6.35 | 25.42 | 257 | 0.00 |
| 10 | 12.44 | 33.60 | 6.33 | 255 | 10 | 12.44 | 33.60 | 6.33 | 25.44 | 255 | 0.03 |
| 30 | 10.78 | 33.55 | 4.59 | 229 | 20 | 11.63 | 33.58 | 5.66 | 25.58 | 242 | 0.05 |
| 41 | 10.43 | 33.57 | 4.19 | 223 | 30 | 10.78 | 33.55 | 4.59 | 25.71 | 229 | 0.07 |
| 51 | 10.26 | 33.64 | 3.91 | 214 | 50 | 10.28 | 33.64 | 3.91 | 25.87 | 214 | 0.12 |
| 61 | 10.10 | 33.69 | 3.40 | 208 | 75 | 9.89 | 33.81 | 2.83 | 26.07 | 195 | 0.17 |
| 71 | 10.01 | 33.79 | 3.05 | 199 | 100 | 9.40 | 33.85 | 3.02 | 26.18 | 185 | 0.22 |
| 80 | 9.78 | 33.84 | 2.81 | 191 | 150 | 9.46 | 34.24 | 1.65 | 26.46 | 158 | 0.31 |
| 89 | 9.64 | 33.86 | 2.95 | 188 | 200 | 9.02 | 34.26 | 1.46 | 26.55 | 149 | 0.38 |
| 100 | 9.40 | 33.85 | 3.02 | 185 | 250 | 8.78 | 34.27 | 1.22 | 26.61 | 144 | 0.46 |
| 124 | 9.21 | 33.94 | 2.67 | 175 | 300 | 8.49 | 34.28 | 1.15 | 26.66 | 139 | 0.53 |
| 153 | 9.46 | 34.25 | 1.60 | 156 | 400 | 7.66 | 34.32 | 0.96 | 26.81 | 125 | 0.67 |
| 200 | 9.02 | 34.26 | 1.46 | 149 | 500 | 6.76 | 34.32 | 0.71 | 26.94 | 112 | 0.79 |
| 257 | 8.75 | 34.27 | 1.20 | 144 | 600 | (5.83) | (34.34) | (0.50) | 27.07 | (100) | (0.90) |
| 357 | 8.08 | 34.31 | 1.02 | 131 | | | | | | | |
| 472 | 7.00 | 34.32 | 0.73 | 116 | | | | | | | |
| 593 | 5.98 | 34.34 | 0.50 | 101 | | | | | | | |

STRANGER; February 12, 1956; 1055, 1143 GCT; 31°21'N, 117°27'W; sounding, 1000 fm; wind, 260°, force 3; weather, clear; sea, moderate; wire angle, 13°, 14°.

100.40

| | | | | | | | | | | | |
|------|-------|--------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 13.85 | 33.57 | 5.85 | 284 | 0 | 13.85 | 33.57 | 5.85 | 25.13 | 284 | 0.00 |
| 10 | 13.84 | 33.53 | 5.92 | 286 | 10 | 13.84 | 33.53 | 5.92 | 25.11 | 286 | 0.03 |
| 24 | 13.84 | 33.58 | 5.88 | 283 | 20 | 13.84 | 33.57 | 5.89 | 25.13 | 284 | 0.06 |
| 49 | 12.70 | 33.53 | 5.25 | 265 | 30 | 13.72 | 33.58 | 5.82 | 25.16 | 281 | 0.09 |
| 59 | 11.78 | 33.49 | 4.87 | 251 | 50 | 12.60 | 33.53 | 5.20 | 25.35 | 263 | 0.14 |
| 68 | 11.07 | 33.51 | 4.35 | 237 | 75 | 10.60 | 33.59 | 3.80 | 25.76 | 224 | 0.20 |
| 78 | 10.43 | 33.62 | 3.64 | 219 | 100 | 9.82 | 33.78 | 3.05 | 26.06 | 196 | 0.25 |
| 98 | 9.87 | 33.77 | 3.10 | 198 | 150 | 9.47 | 34.05 | 2.34 | 26.32 | 171 | 0.35 |
| 121 | 9.50 | 33.88 | 2.67 | 184 | 200 | 8.72 | 34.13 | 1.95 | 26.50 | 154 | 0.43 |
| 150 | 9.47 | 34.05 | 2.34 | 171 | 250 | 8.17 | 34.18 | 1.61 | 26.63 | 142 | 0.50 |
| 197 | 8.79 | 34.20u | 1.97 | - | 300 | 7.78 | 34.24 | 1.20 | 26.73 | 132 | 0.58 |
| 261 | 8.06 | 34.19 | 1.58 | 140 | 400 | 7.04 | 34.28 | 0.61 | 26.87 | 119 | 0.70 |
| 361 | 7.40 | 34.28 | 0.75 | 124 | 500 | 6.18 | 34.30 | 0.53 | 27.01 | 106 | 0.82 |
| | | | | | 600 | 5.58 | 34.36 | 0.38 | 27.12 | 95 | 0.93 |
| 364 | 7.35 | 34.28 | 0.69 | 123 | 700 | 5.08 | 34.39 | 0.34 | 27.21 | 87 | 1.03 |
| 484 | 6.23 | 34.29 | 0.58 | 108 | 800 | 4.72 | 34.43 | 0.40 | 27.27 | 81 | 1.12 |
| 656 | 5.29 | 34.38 | 0.32 | 90 | 1000 | 4.00 | 34.49 | 0.64 | 27.41 | 68 | 1.28 |
| 868 | 4.42 | 34.45 | 0.47 | 76 | | | | | | | |
| 1165 | 3.55 | 34.54 | 0.82 | 60 | | | | | | | |

STRANGER; February 12, 1956; 1647, 1730 GCT; 31°03'N, 118°09'W; sounding, 1900 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 05°, 05°.

100.50

| | | | | | | | | | | | |
|-------|-------|-------|-------|-----|------|-------|-------|--------|-------|-----|------|
| 0 | 13.95 | 33.50 | 6.03 | 292 | 0 | 13.95 | 33.50 | 6.03 | 25.05 | 292 | 0.00 |
| 10 | 13.96 | 33.51 | 5.96 | 291 | 10 | 13.96 | 33.51 | 5.96 | 25.06 | 291 | 0.03 |
| 25 | 13.97 | 33.48 | 6.04 | 293 | 20 | 13.97 | 33.48 | 6.03 | 25.05 | 292 | 0.06 |
| 51 | 13.86 | 33.49 | 6.12 | 290 | 30 | 13.95 | 33.48 | 6.07 | 25.05 | 292 | 0.09 |
| 61 | 13.30 | 33.46 | 5.60 | 281 | 50 | 13.88 | 33.49 | 6.12 | 25.07 | 290 | 0.15 |
| 70 | 11.39 | 33.35 | 4.99 | 255 | 75 | 11.16 | 33.35 | 4.89 | 25.48 | 251 | 0.21 |
| 80 | 10.96 | 33.36 | 4.76 | 246 | 100 | 9.82 | 33.55 | 3.69 | 25.87 | 214 | 0.27 |
| 99 | 9.82 | 33.55 | 3.69 | 214 | 150 | 8.81 | 33.96 | 2.65 | 26.35 | 168 | 0.37 |
| 123 | 9.06 | 33.76 | 3.22 | 187 | 200 | 8.24 | 34.05 | 2.16 | 26.51 | 153 | 0.45 |
| 151 | 8.80 | 33.96 | 2.60 | 167 | 250 | 7.84 | 34.13 | 1.70 | 26.64 | 141 | 0.52 |
| 199 | 8.24 | 34.05 | 2.18 | 153 | 300 | 7.38 | 34.19 | 1.27 | 26.75 | 130 | 0.59 |
| 266 | 7.70 | 34.15 | 1.51 | 138 | 400 | 6.43 | 34.28 | 0.70 | 26.94 | 112 | 0.72 |
| 366 | 6.74 | 34.25 | 0.92 | - | 500 | 5.81 | 34.35 | (0.42) | 27.08 | 99 | 0.83 |
| | | | | | 600 | 5.38 | 34.39 | (0.40) | 27.18 | 90 | 0.93 |
| 362a) | 6.69 | 34.26 | 0.88 | - | 700 | 4.99 | 34.43 | (0.40) | 27.25 | 83 | 1.02 |
| 487 | 5.88 | 34.34 | 0.43 | 100 | 800 | 4.60 | 34.46 | (0.43) | 27.31 | 77 | 1.11 |
| 664 | 5.08 | 34.42 | 0.61u | 85 | 1000 | 3.87 | 34.52 | (0.65) | 27.44 | 65 | 1.26 |
| 881 | 4.24 | 34.49 | 0.35u | 71 | | | | | | | |
| 1177 | 3.51 | 34.54 | 0.85 | 60 | | | | | | | |

a) Overlapping casts; reconciliation of property curves when necessary.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

100.60

STRANGER; February 12, 1956; 2257 GCT; 30°41'N, 118°47'W; sounding, 1500 fm; wind, 300°, force 4; weather, overcast; sea, rough; wire angle, 17°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 13.45 | 33.57 | 5.98 | 277 | 0 | 13.45 | 33.57 | 5.98 | 25.21 | 277 | 0.00 |
| 9 | 13.46 | 33.58 | 6.00 | 276 | 10 | 13.46 | 33.58 | 6.00 | 25.22 | 276 | 0.03 |
| 25 | 13.43 | 33.57 | 5.93 | 276 | 20 | 13.45 | 33.57 | 5.95 | 25.22 | 276 | 0.06 |
| 50 | 10.53 | 33.55 | 4.16 | 225 | 30 | 13.41 | 33.57 | 5.92 | 25.22 | 276 | 0.08 |
| 57 | 10.42 | 33.57 | 4.05 | 222 | 50 | 10.53 | 33.55 | 4.16 | 25.75 | 225 | 0.13 |
| 67 | 10.12 | 33.62 | 3.77 | 213 | 75 | 9.76 | 33.67 | 3.59 | 25.98 | 204 | 0.19 |
| 76 | 9.74 | 33.68 | 3.58 | 202 | 100 | 9.30 | 33.84 | 2.90 | 26.18 | 184 | 0.24 |
| 94 | 9.40 | 33.84 | 2.98 | 186 | 150 | 8.60 | 33.99 | 2.76 | 26.42 | 162 | 0.32 |
| 116 | 9.00 | 33.86 | 2.83 | 178 | 200 | 7.74 | 34.06 | 2.50 | 26.61 | 144 | 0.40 |
| 143 | 8.74 | 33.98 | 2.77 | 165 | 250 | 7.46 | 34.11 | 1.93 | 26.67 | 138 | 0.47 |
| 187 | 7.90 | 34.05 | 2.65 | 148 | 300 | 7.23 | 34.27 | 1.22 | 26.83 | 123 | 0.54 |
| 249 | 7.47 | 34.11 | 1.97 | 138 | 400 | 6.70 | 34.32 | 0.65 | 26.94 | 112 | 0.66 |
| 343 | 7.07 | 34.30 | 0.83 | 118 | 500 | 6.05 | 34.35 | 0.48 | 27.06 | 101 | 0.77 |
| 459 | 6.29 | 34.33 | 0.51 | 106 | 600 | 5.42 | 34.39 | 0.41 | 27.16 | 91 | 0.87 |
| 623 | 5.32 | 34.40 | 0.40 | 89 | 700 | 5.00 | 34.42 | 0.40 | 27.24 | 84 | 0.97 |
| 827 | 4.46 | 34.48 | 0.43 | 74 | 800 | 4.60 | 34.47 | 0.41 | 27.32 | 76 | 1.05 |
| 1114 | 3.61 | 34.55 | 0.83 | 60 | 1000 | 3.86 | 34.53 | 0.70 | 27.45 | 64 | 1.21 |

100.70

STRANGER; February 13, 1956; 0347 GCT; 30°21'N, 119°27.5'W; sounding, 2000 fm; wind, 310°, force 4; weather, overcast; sea, moderate; wire angle, 09°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 15.04 | 33.48 | 5.84 | 314 | 0 | 15.04 | 33.48 | 5.84 | 24.82 | 314 | 0.00 |
| 10 | 15.02 | 33.50 | 5.87 | 313 | 10 | 15.02 | 33.50 | 5.87 | 24.83 | 313 | 0.03 |
| 25 | 15.03 | 33.47 | 5.92 | 315 | 20 | 15.02 | 33.47 | 5.91 | 24.81 | 315 | 0.06 |
| 50 | 13.55 | 33.31 | 6.09 | 297 | 30 | 14.93 | 33.44 | 5.98 | 24.81 | 315 | 0.09 |
| 60 | 12.70 | 33.32 | 5.77 | 280 | 50 | 13.55 | 33.31 | 6.09 | 25.00 | 297 | 0.16 |
| 69 | 12.42 | 33.35 | 5.67 | 274 | 75 | 12.35 | 33.38 | 5.66 | 25.28 | 270 | 0.23 |
| 79 | 12.26 | 33.39 | 5.66 | 267 | 100 | 11.10 | 33.39 | 5.17 | 25.53 | 246 | 0.29 |
| 99 | 11.17 | 33.39 | 5.20 | 248 | 150 | 9.41 | 33.74 | 3.30 | 25.09 | 193 | 0.40 |
| 125 | 10.14 | 33.55 | 4.31 | 218 | 200 | 8.63 | 34.01 | 2.47 | 26.42 | 162 | 0.49 |
| 153 | 9.36 | 33.76 | 3.23 | 191 | 250 | 7.70 | 34.07 | 2.22 | 26.61 | 144 | 0.57 |
| 200 | 8.63 | 34.01 | 2.47 | 162 | 300 | 7.26 | 34.14 | 1.86 | 26.73 | 132 | 0.64 |
| 267 | 7.43 | 34.09 | 2.10 | 139 | 400 | 6.61 | 34.26 | 0.91 | 26.91 | 115 | 0.77 |
| 367 | 6.94 | 34.25 | 1.06 | 120 | 500 | 5.67 | 34.30 | 0.62 | 27.06 | 101 | 0.88 |
| 489 | 5.79 | 34.29 | 0.67 | 103 | 600 | 5.26 | 34.37 | 0.50 | 27.16 | 91 | 0.98 |
| 662 | 5.03 | 34.40 | 0.49 | 86 | 700 | 4.90 | 34.42 | 0.49 | 27.25 | 83 | 1.08 |
| 876 | 4.22 | 34.50 | 0.57 | 70 | 800 | 4.57 | 34.47 | 0.50 | 27.33 | 75 | 1.16 |
| 1172 | 3.48 | 34.56 | 1.02 | 58 | 1000 | 3.82 | 34.53 | 0.80 | 27.45 | 64 | 1.31 |

100.80

STRANGER; February 13, 1956; 0827 GCT; 30°01.5'N, 120°07'W; sounding, 2000+ fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 15°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.44 | 33.30 | 5.88 | 316 | 0 | 14.44 | 33.30 | 5.88 | 24.80 | 316 | 0.00 |
| 10 | 14.41 | 33.29 | 5.90 | 316 | 10 | 14.41 | 33.29 | 5.90 | 24.80 | 316 | 0.03 |
| 24 | 14.42 | 33.29 | 5.97 | 316 | 20 | 14.42 | 33.29 | 5.97 | 24.80 | 316 | 0.06 |
| 49 | 14.28 | 33.31 | 5.93 | 311 | 30 | 14.40 | 33.30 | 5.97 | 24.81 | 315 | 0.09 |
| 59 | 13.82 | 33.34 | 5.80 | 300 | 50 | 14.25 | 33.31 | 5.92 | 24.85 | 311 | 0.16 |
| 86p | 10.96 | 33.34 | 5.01 | 247 | 75 | 11.78 | 33.31 | 5.39 | 25.34 | 264 | 0.23 |
| 162p | 9.25 | 33.77 | 3.07 | 189 | 100 | 10.49 | 33.40 | 4.70 | 25.65 | 235 | 0.29 |
| 240p | 8.24 | 34.05 | 2.27 | 153 | 150 | 9.42 | 33.71 | 3.30 | 26.06 | 196 | 0.40 |
| 355p | 7.06 | 34.15 | 1.30 | 129 | 200 | 8.77 | 33.96 | 2.67 | 26.36 | 167 | 0.49 |
| 492p | 6.00 | 34.26 | 0.58 | 107 | 250 | 8.15 | 34.07 | 2.16 | 26.54 | 150 | 0.58 |
| 618p | 5.51 | 34.34 | 0.44 | 96 | 300 | 7.60 | 34.11 | 1.79 | 26.65 | 140 | 0.65 |
| 748p | 4.82 | 34.46 | 0.48 | 79 | 400 | 6.68 | 34.18 | 1.02 | 26.84 | 122 | 0.78 |
| | | | | | 500 | 5.97 | 34.26 | 0.54 | 27.01 | 106 | 0.90 |
| | | | | | 600 | 5.60 | 34.33 | 0.45 | 27.10 | 97 | 1.01 |
| | | | | | 700 | 5.11 | 34.41 | 0.46 | 27.22 | 86 | 1.11 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-----------------------|--------------|----|---|----------------|------------|-----------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm/g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm/g | dyn. m |

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STRANGER; February 14, 1956; 0618 GCT; 30°55'N, 116°45'W; sounding, 1000 fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 06°.

103.35

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.12 | 33.48 | 6.03 | 277 | 0 | 13.12 | 33.48 | 6.03 | 25.21 | 277 | 0.00 |
| 10 | 13.10 | 33.49 | 6.01 | 275 | 10 | 13.10 | 33.49 | 6.01 | 25.23 | 275 | 0.03 |
| 30 | 12.92 | 33.48 | 5.90 | 272 | 20 | 12.99 | 33.48 | 5.95 | 25.24 | 274 | 0.05 |
| 41 | 12.25 | 33.47 | 5.22 | 261 | 30 | 12.92 | 33.48 | 5.90 | 25.26 | 272 | 0.08 |
| 51 | 11.12 | 33.48 | 4.17 | 240 | 50 | 11.15 | 33.48 | 4.18 | 25.58 | 241 | 0.13 |
| 61 | 10.72 | 33.55 | 3.48 | 229 | 75 | 10.00 | 33.62 | 3.13 | 25.89 | 212 | 0.19 |
| 71 | 10.30 | 33.66 | 2.84 | 213 | 100 | 9.94 | 33.88 | 2.35 | 26.11 | 191 | 0.24 |
| 81 | 9.80 | 33.59 | 3.29 | 211 | 150 | 9.11 | 34.01 | 2.34 | 26.35 | 168 | 0.33 |
| 91 | 9.98 | 33.78 | 2.62 | 199 | 200 | 8.67 | 34.14 | 1.95 | 26.52 | 152 | 0.41 |
| 99 | 9.96 | 33.88 | 2.36 | 191 | 250 | 8.66 | 34.30 | 1.18 | 26.64 | 141 | 0.49 |
| 123 | 9.80 | 33.98 | 2.23 | 182 | 300 | 8.59 | 34.39 | 0.73 | 26.73 | 132 | 0.56 |
| 151 | 9.08 | 34.01 | 2.34 | 168 | 400 | 7.74 | 34.39 | 0.48 | 26.86 | 120 | 0.69 |
| 199 | 8.67 | 34.14 | 1.97 | 152 | 500 | 6.56 | 34.34 | 0.50 | 26.98 | 109 | 0.81 |
| 256 | 8.66 | 34.31 | 1.14 | 140 | 600 | (5.82) | (34.38) | (0.34) | (27.11) | (96) | (0.92) |
| 356 | 8.25 | 34.42 | 0.48 | 126 | | | | | | | |
| 470 | 6.82 | 34.33 | 0.54 | 113 | | | | | | | |
| 592 | 5.89 | 34.38 | 0.38 | 97 | | | | | | | |

STRANGER; February 14, 1956; 0308 GCT; 30°45'N, 117°05.5'W; sounding, 1040 fm; wind, 320°, force 3; weather, overcast; sea, moderate; wire angle, 06°.

103.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 13.52 | 33.53 | 6.06 | 280 | 0 | 13.52 | 33.53 | 6.06 | 25.18 | 280 | 0.00 |
| 10 | 13.34 | 33.51 | 6.09 | 278 | 10 | 13.34 | 33.51 | 6.09 | 25.20 | 278 | 0.03 |
| 30 | 11.92 | 33.51 | 6.09 | 252 | 20 | 12.62 | 33.51 | 6.09 | 25.33 | 265 | 0.06 |
| 40 | 11.36 | 33.48 | 4.46 | 244 | 30 | 11.92 | 33.51 | 6.09 | 25.47 | 252 | 0.08 |
| 50 | 10.88 | 33.52 | 3.69 | 233 | 50 | 10.88 | 33.52 | 3.69 | 25.67 | 233 | 0.13 |
| 61 | 10.41 | 33.56 | 3.64 | 222 | 75 | 9.73 | 33.64 | 3.41 | 25.96 | 205 | 0.18 |
| 70 | 10.10 | 33.68 | 3.06 | 208 | 100 | 8.99 | 33.71 | 3.50 | 26.14 | 188 | 0.23 |
| 80 | 9.42 | 33.61 | 3.72 | 204 | 150 | 9.23 | 34.08 | 2.25 | 26.38 | 165 | 0.32 |
| 89 | 9.22 | 33.65 | 3.76 | 197 | 200 | 8.76 | 34.15 | 1.96 | 26.51 | 153 | 0.41 |
| 99 | 9.00 | 33.71 | 3.51 | 189 | 250 | 8.67 | 34.28 | 1.19 | 26.63 | 142 | 0.48 |
| 124 | 8.88 | 33.82 | 3.26 | 179 | 300 | 8.20 | 34.32 | 0.91 | 26.73 | 132 | 0.55 |
| 152 | 9.26 | 34.09 | 2.18 | 165 | 400 | 7.22 | 34.35 | 0.64 | 26.90 | 116 | 0.68 |
| 200 | 8.76 | 34.15 | 1.96 | 153 | 500 | 6.12 | 34.33 | 0.50 | 27.04 | 103 | 0.79 |
| 255 | 8.61 | 34.28 | 1.18 | 141 | 600 | (5.65) | (34.40) | (0.37) | (27.16) | (92) | (0.90) |
| 357 | 7.72 | 34.36 | 0.73 | 122 | | | | | | | |
| 471 | 6.36 | 34.32 | 0.56 | 107 | | | | | | | |
| 595 | 5.66 | 34.40 | 0.39 | 93 | | | | | | | |

STRANGER; February 13, 1956; 2146 GCT; 30°27'N, 117°46.5'W; sounding, 1000 fm; wind, 320°, force 3; weather, overcast; sea, rough; wire angle, 12°.

103.50

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.88 | 33.40 | 5.88 | 297 | 0 | 13.88 | 33.40 | 5.88 | 25.00 | 297 | 0.00 |
| 10 | 13.84 | 33.38 | 6.00 | 298 | 10 | 13.84 | 33.38 | 6.00 | 24.99 | 298 | 0.03 |
| 30 | 13.86 | 33.40 | 5.95 | 296 | 20 | 13.86 | 33.40 | 5.97 | 25.00 | 297 | 0.06 |
| 40 | 13.26 | 33.30 | 5.75 | 292 | 30 | 13.86 | 33.40 | 5.95 | 25.01 | 296 | 0.09 |
| 50 | 12.84 | 33.32 | 5.65 | 283 | 50 | 12.84 | 33.32 | 5.65 | 25.14 | 283 | 0.15 |
| 59 | 12.00 | 33.28 | 5.33 | 271 | 75 | 10.68 | 33.29 | 4.86 | 25.52 | 247 | 0.21 |
| 69 | 11.06 | 33.27 | 5.11 | 255 | 100 | 9.67 | 33.54 | 3.60 | 25.89 | 212 | 0.27 |
| 80 | 10.38 | 33.33 | 4.55 | 238 | 150 | 8.84 | 33.87 | 2.71 | 26.28 | 175 | 0.37 |
| 88 | 9.92 | 33.43 | 4.07 | 224 | 200 | 7.80 | 33.97 | 2.42 | 26.51 | 153 | 0.45 |
| 99 | 9.68 | 33.54 | 3.64 | 212 | 250 | 7.11 | 34.04 | 2.10 | 26.67 | 138 | 0.53 |
| 122 | 9.22 | 33.74 | 2.97 | 191 | 300 | 6.69 | 34.10 | 1.44 | 26.78 | 128 | 0.59 |
| 150 | 8.84 | 33.87 | 2.71 | 175 | 400 | 6.17 | 34.21 | 0.55 | 26.93 | 113 | 0.72 |
| 194 | 7.88 | 33.96 | 2.46 | 154 | 500 | 5.79 | 34.32 | 0.38 | 27.07 | 100 | 0.83 |
| 248 | 7.14 | 34.04 | 2.11 | 138 | | | | | | | |
| 343 | 6.42 | 34.14 | 1.05 | 122 | | | | | | | |
| 454 | 5.96 | 34.27 | 0.44 | 106 | | | | | | | |
| 572 | 5.54 | 34.40 | 0.32 | 91 | | | | | | | |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-----------------------------------|--------------|----|---|----------------|------------|-----------------------------------|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | m | °C | ‰ | ml/L | g/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | dyn. m | |

103.60 STRANGER; February 13, 1956; 1712 GCT; 30°07'N, 118°26.5'W; sounding, 2000+ fm; wind, 310°, force 4; weather, overcast; sea, moderate; wire angle, 03°.

| | | | | | | | | | | | |
|------|-------|-------|--------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.79 | 33.35 | 6.02 | 319 | 0 | 14.79 | 33.35 | 6.02 | 24.76 | 319 | 0.00 |
| 10 | 14.78 | 33.35 | 6.03 | 319 | 10 | 14.78 | 33.35 | 6.03 | 24.76 | 319 | 0.03 |
| 30 | 14.90 | 33.38 | 5.64 | 319 | 20 | 14.83 | 33.36 | 5.86 | 24.76 | 319 | 0.06 |
| 41 | 14.88 | 33.38 | 5.88 | 318 | 30 | 14.90 | 33.38 | 5.64 | 24.76 | 319 | 0.10 |
| 51 | 14.86 | 33.40 | 6.00 | 317 | 50 | 14.86 | 33.40 | 6.00 | 24.79 | 317 | 0.16 |
| 61 | 14.48 | 33.41 | 5.89 | 308 | 75 | 13.30 | 33.32 | 5.67 | 25.05 | 292 | 0.24 |
| 71 | 13.70 | 33.35 | 5.72 | 297 | 100 | 10.42 | 33.31 | 4.84 | 25.58 | 241 | 0.30 |
| 87p | 12.05 | 33.28 | 5.34a) | 271 | 150 | 8.86 | 33.67 | 3.50 | 26.12 | 190 | 0.41 |
| 97p | 10.70 | 33.29 | 4.94 | 247 | 200 | 8.30 | 34.01 | 2.16 | 26.48 | 156 | 0.50 |
| 121p | 9.48 | 33.43 | 4.44 | 217 | 250 | 7.79 | 34.06 | 1.80 | 26.58 | 146 | 0.58 |
| 163p | 8.64 | 33.81 | 3.14 | 176 | 300 | 7.17 | 34.08 | 1.46 | 26.69 | 136 | 0.65 |
| 212p | 8.20 | 34.04 | 2.02 | 153 | 400 | 6.28 | 34.16 | 0.85 | 26.87 | 119 | 0.78 |
| 302p | 7.14 | 34.08 | 1.43 | 136 | 500 | 5.79 | 34.28 | 0.44 | 27.03 | 104 | 0.90 |
| 404p | 6.21 | 34.16 | 0.80 | 118 | | | | | | | |
| 514p | 5.72 | 34.29 | 0.38 | 102 | | | | | | | |

107.35 STRANGER; February 14, 1956; 1526, 1548, 1610 GCT; 30°20'N, 116°23'W; sounding, 900 fm; wind, 340°, force 4; weather, partly cloudy; sea, moderate; wire angle, 23°, 31°, 33°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|-------|--------|
| 0 | 14.53 | 33.57 | 5.75 | 298 | 0 | 14.53 | 33.57 | 5.75 | 24.99 | 298 | 0.00 |
| 9 | 14.36 | 33.58 | 5.74 | 293 | 10 | 14.34 | 33.58 | 5.74 | 25.04 | 293 | 0.03 |
| 28 | 13.94 | 33.57 | 5.78 | 285 | 20 | 14.13 | 33.58 | 5.76 | 25.08 | 289 | 0.06 |
| 38 | 13.80 | 33.55 | 5.81 | 284 | 30 | 13.90 | 33.57 | 5.79 | 25.12 | 285 | 0.09 |
| 47 | 13.76 | 33.54 | 5.80 | 284 | 50 | 13.72 | 33.55 | 5.81 | 25.15 | 282 | 0.14 |
| 55 | 13.69 | 33.56 | 5.83 | 281 | 75 | 11.20 | 33.53 | 4.02 | 25.62 | 238 | 0.21 |
| | | | | | 100 | 10.20 | 33.62 | 3.17 | 25.87 | 214 | 0.27 |
| 61 | 13.32 | 33.52 | 5.68 | 277 | 150 | 9.16 | 33.91 | 2.86 | 26.26 | 177 | 0.36 |
| | | | | | 200 | 8.76 | 34.10 | 2.21 | 26.48 | 156 | 0.45 |
| 71 | 11.68 | 33.48 | 4.48 | 249 | 250 | 8.25 | 34.24 | 1.40 | 26.66 | 139 | 0.52 |
| 78 | 10.91 | 33.57 | 3.74 | 230 | 300 | 8.08 | 34.28 | 1.10 | 26.72 | 133 | 0.59 |
| 98 | 10.26 | 33.62 | 3.16 | 216 | 400 | 7.53 | 34.35 | 0.49 | 26.86 | 120 | 0.73 |
| 118 | 9.56 | 33.69 | 3.32 | 199 | 500 | (6.67) | (34.36) | (0.24) | (26.98) | (109) | (0.84) |
| 158 | 9.10 | 33.95 | 2.75 | 173 | | | | | | | |
| 204 | 8.74 | 34.12 | 2.18 | 155 | | | | | | | |
| 285 | 8.16 | 34.27 | 1.14 | 135 | | | | | | | |
| 380 | 7.68 | 34.35 | 0.55 | 122 | | | | | | | |
| 486 | 6.82 | 34.36 | 0.28 | 110 | | | | | | | |

107.40 STRANGER; February 14, 1956; 1914 GCT; 30°10.5'N, 116°43'W; sounding, 1500 fm; wind, 320°, force 5; weather, partly cloudy; sea, moderate; wire angle, 14°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.59 | 33.56 | 5.92 | 299 | 0 | 14.59 | 33.56 | 5.92 | 24.98 | 299 | 0.00 |
| 10 | 14.56 | 33.53 | 5.93 | 301 | 10 | 14.56 | 33.53 | 5.93 | 24.95 | 301 | 0.03 |
| 29 | 14.52 | 33.55 | 5.94 | 298 | 20 | 14.53 | 33.54 | 5.94 | 24.96 | 300 | 0.06 |
| 45 | 14.50 | 33.58 | 5.93 | 296 | 30 | 14.52 | 33.55 | 5.94 | 24.99 | 298 | 0.09 |
| 54 | 14.49 | 33.58 | 5.94 | 296 | 50 | 14.49 | 33.58 | 5.94 | 25.01 | 296 | 0.15 |
| 63 | 13.75 | 33.50 | 5.63 | 287 | 75 | 12.79 | 33.45 | 5.32 | 25.26 | 272 | 0.22 |
| 73 | 13.05 | 33.46 | 5.42 | 276 | 100 | 10.80 | 33.48 | 4.48 | 25.65 | 235 | 0.28 |
| 83 | 12.06 | 33.44 | 5.03 | 260 | 150 | 9.02 | 33.84 | 3.20 | 26.24 | 179 | 0.39 |
| 98 | 10.86 | 33.48 | 4.54 | 236 | 200 | 8.44 | 34.08 | 2.44 | 26.50 | 154 | 0.48 |
| 107 | 10.54 | 33.49 | 4.23 | 230 | 250 | 8.03 | 34.16 | 1.86 | 26.63 | 142 | 0.55 |
| 130 | 9.64 | 33.64 | 3.72 | 204 | 300 | 7.69 | 34.28 | 1.46 | 26.78 | 128 | 0.62 |
| 158 | 8.83 | 33.91 | 3.06 | 172 | 400 | 7.39 | 34.43 | 0.46 | 26.93 | 113 | 0.74 |
| 209 | 8.34 | 34.09 | 2.39 | 151 | 500 | 6.54 | 34.42 | 0.47 | 27.05 | 102 | 0.86 |
| 271 | 7.80 | 34.19 | 1.74 | 136 | 600 | 5.94 | 34.40 | 0.38 | 27.11 | 96 | 0.96 |
| 379 | 7.52 | 34.42 | 0.46 | 116 | | | | | | | |
| 502 | 6.51 | 34.42 | 0.48 | 102 | | | | | | | |
| 630 | 5.72 | 34.40 | 0.33 | 94 | | | | | | | |

a) Mean value of 5.30 and 5.37 ml/L.

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT | Z | T | S | O ₂ | σ_t | δT | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

STRANGER; February 15, 1956; 0015 GCT; 29°50'N, 117°23.5'W; sounding, 2000+ fm; wind, 320°, force 4; weather, overcast; sea, rough; wire angle, 17°.

107.50

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 14.28 | 33.55 | 5.66 | 294 | 0 | 14.28 | 33.55 | 5.66 | 25.03 | 294 | 0.00 |
| 10 | 14.22 | 33.57 | 5.84 | 291 | 10 | 14.22 | 33.57 | 5.84 | 25.06 | 291 | 0.03 |
| 29 | 14.19 | 33.58 | 5.77 | 290 | 20 | 14.21 | 33.58 | 5.82 | 25.06 | 291 | 0.06 |
| 44 | 13.84 | 33.60 | 5.75 | 282 | 30 | 14.18 | 33.58 | 5.76 | 25.08 | 289 | 0.09 |
| 54 | 13.72 | 33.58 | 5.75 | 281 | 50 | 13.78 | 33.58 | 5.75 | 25.16 | 281 | 0.14 |
| 63 | 13.48 | 33.58 | 5.59 | 276 | 75 | 12.00 | 33.47 | 4.93 | 25.43 | 256 | 0.21 |
| 72 | 12.36 | 33.49 | 5.13 | 262 | 100 | 10.39 | 33.56 | 3.99 | 25.78 | 222 | 0.27 |
| 81 | 11.53 | 33.47 | 4.69 | 248 | 150 | 9.06 | 33.84 | 2.88 | 26.22 | 181 | 0.37 |
| 94 | 10.57 | 33.54 | 4.03 | 226 | 200 | 8.44 | 34.04 | 2.23 | 26.48 | 156 | 0.46 |
| 103 | 10.30 | 33.56 | 3.97 | 220 | 250 | 7.73 | 34.11 | 1.90 | 26.64 | 141 | 0.53 |
| 125 | 9.49 | 33.71 | 3.34 | 197 | 300 | 7.36 | 34.19 | 1.42 | 26.75 | 130 | 0.60 |
| 150 | 9.06 | 33.84 | 2.88 | 181 | 400 | 6.80 | 34.30 | 0.64 | 26.91 | 115 | 0.73 |
| 197 | 8.48 | 34.04 | 2.26 | 157 | 500 | 6.13 | 34.35 | 0.41 | 27.05 | 102 | 0.84 |
| 254 | 7.66 | 34.11 | 1.88 | 140 | 600 | (5.47) | (34.37) | (0.33) | (27.14) | (93) | (0.95) |
| 354 | 7.07 | 34.26 | 0.82 | 121 | | | | | | | |
| 468 | 6.32 | 34.34 | 0.47 | 105 | | | | | | | |
| 591 | 5.56 | 34.37 | 0.33 | 94 | | | | | | | |

STRANGER; February 15, 1956; 0511 GCT; 29°31.5'N, 118°01.5'W; sounding, 2000+ fm; wind, 320°, force 4; weather, overcast; sea, moderate; wire angle, 15°.

107.60

| | | | | | | | | | | | |
|------|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.62 | 33.54 | 5.59 | 322 | 0 | 15.62 | 33.54 | 5.59 | 24.73 | 322 | 0.00 |
| 10 | 15.58 | 33.55 | 5.59 | 321 | 10 | 15.58 | 33.55 | 5.59 | 24.74 | 321 | 0.03 |
| 29 | 15.62 | 33.54 | 5.58 | 322 | 20 | 15.60 | 33.55 | 5.58 | 24.73 | 322 | 0.06 |
| 45 | 15.57 | 33.54 | 5.61 | 321 | 30 | 15.62 | 33.54 | 5.58 | 24.73 | 322 | 0.10 |
| 54 | 15.56 | 33.53 | 5.65 | 322 | 50 | 15.56 | 33.53 | 5.62 | 24.73 | 322 | 0.16 |
| 63 | 15.58 | 33.54 | 5.61 | 322 | 75 | 15.21 | 33.50 | 5.60 | 24.79 | 317 | 0.24 |
| 73 | 15.38 | 33.49 | 5.61 | 321 | 100 | 12.98 | 33.61 | 5.43 | 25.34 | 264 | 0.31 |
| 91p | 13.71 | 33.63 | 5.55 | 277 | 150 | 9.76 | 33.54 | 4.32 | 25.87 | 214 | 0.43 |
| 137p | 10.29 | 33.49 | 4.65 | 226 | 200 | 8.51 | 33.87 | 3.17 | 26.33 | 170 | 0.53 |
| 191p | 8.68 | 33.82 | 3.43 | 176 | 250 | 7.89 | 34.02 | 2.50 | 26.54 | 150 | 0.61 |
| 286p | 7.57 | 34.09 | 2.13 | 140 | 300 | 7.45 | 34.10 | 1.97 | 26.67 | 138 | 0.69 |
| 395p | 6.88 | 34.29 | 0.71 | 116 | 400 | 6.84 | 34.29 | 0.71 | 26.90 | 116 | 0.82 |
| 510p | 5.88 | 34.29 | 0.42 | 104 | 500 | 6.00 | 34.29 | 0.44 | 27.02 | 105 | 0.94 |

STRANGER; February 17, 1956; 1555 GCT; 29°47'N, 116°00'W; sounding, 740 fm; wind, 050°, force 3; weather, partly cloudy; sea, very rough; wire angle, 05°.

110.35

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|--------|---------|--|---------|------|--------|
| 0 | 14.07 | 33.57 | | 288 | 0 | 14.07 | 33.57 | | 25.09 | 288 | 0.00 |
| 10 | 14.10 | 33.57 | | 289 | 10 | 14.10 | 33.57 | | 25.08 | 289 | 0.03 |
| 31 | 14.12 | 33.57 | | 289 | 20 | 14.10 | 33.57 | | 25.08 | 289 | 0.06 |
| 41 | 14.08 | 33.56 | | 288 | 30 | 14.12 | 33.57 | | 25.08 | 289 | 0.09 |
| 50 | 14.06 | 33.55 | | 289 | 50 | 14.06 | 33.55 | | 25.08 | 289 | 0.14 |
| 60 | 12.69 | 33.46 | | 270 | 75 | 11.80 | 33.52 | | 25.50 | 249 | 0.21 |
| 70 | 12.00 | 33.49 | | 255 | 100 | 10.01 | 33.59 | | 25.87 | 214 | 0.27 |
| 80 | 11.52 | 33.54 | | 243 | 150 | 9.66 | 34.04 | | 26.28 | 175 | 0.37 |
| 90 | 10.90 | 33.60 | | 228 | 200 | 8.93 | 34.16 | | 26.49 | 155 | 0.45 |
| 99 | 10.01 | 33.59 | | 214 | 250 | 9.31 | 34.39 | | 26.61 | 144 | 0.53 |
| 123 | 9.87 | 33.85 | | 193 | 300 | 8.77 | 34.40 | | 26.71 | 134 | 0.60 |
| 151 | 9.66 | 34.04 | | 175 | 400 | 7.83 | 34.40 | | 26.85 | 121 | 0.73 |
| 198 | 8.98 | 34.14 | | 156 | 500 | 6.92 | 34.39 | | 26.96 | 110 | 0.85 |
| 255 | 9.24 | 34.39 | | 143 | 600 | (5.90) | (34.37) | | (27.09) | (98) | (0.96) |
| 353 | 8.23 | 34.40 | | 127 | | | | | | | |
| 468 | 7.20 | 34.39 | | 113 | | | | | | | |
| 587 | 6.08 | 34.37 | | 100 | | | | | | | |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|--|--------------|----|---|----------------|------------|--|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $\frac{10^{-5}}{10 \text{ cm}^3/\text{g}}$ | m | °C | ‰ | ml/L | g/L | $\frac{10^{-5}}{10 \text{ cm}^3/\text{g}}$ | dyn. m |

110.40

STRANGER; February 17, 1956; 1219 GCT; 29°32.5'N, 116°17'W; sounding, 1100 fm; wind, 340°, force 3; weather, cloudy; sea, high; wire angle, 05°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 14.37 | 33.49 | 6.00 | 300 | 0 | 14.37 | 33.49 | 6.00 | 24.96 | 300 | 0.00 |
| 9 | 14.36 | 33.49 | 5.85 | 299 | 10 | 14.36 | 33.49 | 5.86 | 24.98 | 299 | 0.03 |
| 25 | 14.36 | 33.52 | 6.05 | 297 | 20 | 14.36 | 33.51 | 6.02 | 24.99 | 298 | 0.06 |
| 55 | 13.82 | 33.44 | 5.71 | 293 | 30 | 14.25 | 33.51 | 6.00 | 25.01 | 296 | 0.09 |
| 65 | 13.66 | 33.45 | 5.71 | 289 | 50 | 13.92 | 33.45 | 5.74 | 25.03 | 294 | 0.15 |
| 75 | 12.70 | 33.39 | 5.36 | 275 | 75 | 12.70 | 33.39 | 5.36 | 25.23 | 275 | 0.22 |
| 89 | 11.88 | 33.36 | 5.35 | 263 | 100 | 11.13 | 33.39 | 5.02 | 25.52 | 247 | 0.29 |
| 108 | 10.60 | 33.45 | 4.72 | 234 | 150 | 9.23 | 33.79 | 3.02 | 26.15 | 187 | 0.39 |
| 133 | 9.56 | 33.66 | 3.58 | 201 | 200 | 8.44 | 34.00 | 2.65 | 26.45 | 159 | 0.48 |
| 161 | 9.04 | 33.86 | 2.86 | 179 | 250 | 8.06 | 34.18 | 2.08 | 26.64 | 141 | 0.56 |
| 212 | 8.32 | 34.04 | 2.58 | 155 | 300 | 7.67 | 34.22 | 1.50 | 26.73 | 132 | 0.63 |
| 289 | 7.80 | 34.22 | 1.57 | 134 | 400 | 6.24 | 34.18 | 1.14 | 26.90 | 116 | 0.76 |
| 394 | 6.30 | 34.18 | 1.18 | 117 | 500 | 5.67 | 34.28 | 0.83 | 27.05 | 102 | 0.87 |
| 531 | 5.57 | 34.31 | 0.78 | 98 | 600 | 5.36 | 34.36 | 0.66 | 27.16 | 92 | 0.98 |
| 718 | 4.97 | 34.45 | 0.54 | 81 | 700 | 5.02 | 34.44 | 0.56 | 27.25 | 83 | 1.07 |
| 947 | 4.22 | 34.51 | 0.62 | 69 | 800 | 4.72 | 34.48 | 0.55 | 27.31 | 77 | 1.16 |
| 1249 | 3.38 | 34.56 | 0.94 | 57 | 1000 | 4.06 | 34.52 | 0.69 | 27.42 | 67 | 1.31 |

110.50

STRANGER; February 17, 1956; 0607 GCT; 29°14'N, 116°58'W; sounding, 2000+ fm; wind, 330°, force 6; weather, overcast; sea, very rough; wire angle, 32°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|------|--------|---------|--------|---------|-------|--------|
| 0 | 14.81 | 33.51 | 5.69 | 308 | 0 | 14.81 | 33.51 | 5.69 | 24.88 | 308 | 0.00 |
| 7 | 14.76 | 33.47 | 5.69 | 309 | 10 | 14.76 | 33.47 | 5.69 | 24.87 | 309 | 0.03 |
| 21 | 14.80 | 33.49 | 5.67 | 309 | 20 | 14.80 | 33.49 | 5.68 | 24.87 | 309 | 0.06 |
| 45 | 14.70 | 33.47 | 5.75 | 308 | 30 | 14.78 | 33.48 | 5.70 | 24.88 | 308 | 0.09 |
| 54 | 14.61 | 33.48 | 5.71 | 306 | 50 | 14.66 | 33.48 | 5.73 | 24.89 | 307 | 0.15 |
| 61 | 14.48 | 33.49 | 5.60 | 302 | 75 | 14.04 | 33.40 | 5.78 | 24.96 | 300 | 0.23 |
| 73 | 14.12 | 33.40 | 5.79 | 302 | 100 | 12.58 | 33.34 | 5.40 | 25.21 | 277 | 0.30 |
| 86 | 13.95 | 33.43 | 5.74 | 296 | 150 | 9.41 | 33.65 | 4.00 | 26.02 | 200 | 0.42 |
| 105 | 11.97 | 33.30 | 5.23 | 268 | 200 | 8.52 | 33.94 | 2.98 | 26.38 | 165 | 0.52 |
| 125 | 10.69 | 33.45 | 4.72 | 235 | 250 | 7.77 | 34.02 | 2.49 | 26.56 | 148 | 0.60 |
| 161 | 9.08 | 33.71 | 3.69 | 190 | 300 | 7.00 | 34.08 | 2.07 | 26.72 | 133 | 0.67 |
| 215 | 8.31 | 33.98 | 2.74 | 159 | 400 | 6.28 | (34.18) | (1.09) | (26.89) | (117) | (0.80) |
| 289 | 7.11 | 34.07 | 2.18 | 136 | 500 | 6.19 | (34.19) | (1.03) | (26.91) | (115) | (0.93) |
| 389 | 6.34 | 34.17 | 1.14 | 118 | 600 | 5.80 | (34.28) | (0.61) | (27.03) | (104) | (1.04) |
| 529 | 6.17 | - | - | - | 700 | 5.10 | (34.43) | (0.34) | (27.24) | (84) | (1.14) |
| 718 | 5.00 | 34.45 | 0.34 | 82 | 800 | 4.72 | 34.48 | 0.41 | 27.31 | 77 | (1.23) |
| 990 | 4.05 | 34.53 | 0.73 | 66 | 1000 | (4.01) | (34.53) | (0.78) | (27.43) | (66) | (1.39) |

110.60

STRANGER; February 17, 1956; 0023 GCT; 28°56'N, 117°38'W; sounding, 2000 fm; wind, 310°, force 6; weather, cloudy; sea, very rough; wire angle, 20°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 15.38 | 33.46 | 5.61 | 323 | 0 | 15.38 | 33.46 | 5.61 | 24.72 | 323 | 0.00 |
| 10 | 15.38 | 33.47 | 5.64 | 322 | 10 | 15.38 | 33.47 | 5.64 | 24.73 | 322 | 0.03 |
| 24 | 15.42 | 33.47 | 5.53 | 323 | 20 | 15.40 | 33.47 | 5.59 | 24.72 | 323 | 0.06 |
| 52 | 15.38 | 33.48 | 5.58 | 321 | 30 | 15.40 | 33.47 | 5.54 | 24.72 | 323 | 0.10 |
| 61 | 15.36 | 33.50 | 5.59 | 319 | 50 | 15.38 | 33.48 | 5.56 | 24.73 | 322 | 0.16 |
| 70 | 15.29 | 33.48 | 5.57 | 319 | 75 | 15.21 | 33.47 | 5.60 | 24.76 | 319 | 0.24 |
| 84 | 14.88 | 33.45 | 5.64 | 313 | 100 | 13.21 | 33.38 | 5.60 | 25.11 | 286 | 0.32 |
| 103 | 12.97 | 33.38 | 5.55 | 280 | 150 | 9.90 | 33.64 | 3.80 | 25.92 | 209 | 0.44 |
| 125 | 11.55 | 33.41 | 4.77 | 252 | 200 | 9.55 | 34.06 | 2.33 | 26.32 | 171 | 0.54 |
| 152 | 9.84 | 33.67 | 3.75 | 206 | 250 | 8.91 | 34.18 | 1.88 | 26.51 | 153 | 0.62 |
| 201 | 9.54 | 34.06 | 2.33 | 171 | 300 | 8.42 | 34.24 | 1.43 | 26.64 | 141 | 0.70 |
| 272 | 8.70 | 34.21 | 1.73 | 147 | 400 | 7.48 | 34.34 | 0.70 | 26.85 | 121 | 0.84 |
| 373 | 7.78 | 34.32 | 0.82 | 125 | 500 | 6.59 | 34.41 | 0.49 | 27.03 | 104 | 0.95 |
| 504 | 6.55 | 34.41 | 0.48 | 103 | 600 | 5.85 | 34.43 | 0.32 | 27.14 | 93 | 1.06 |
| 681 | 5.36 | 34.44 | 0.30 | 86 | 700 | 5.22 | 34.45 | 0.30 | 27.24 | 84 | 1.15 |
| 900 | 4.44 | 34.52 | 0.41 | 71 | 800 | 4.77 | 34.50 | 0.36 | 27.32 | 76 | 1.24 |
| 1193 | 3.53 | 34.56 | 0.84 | 59 | 1000 | 4.17 | 34.54 | 0.53 | 27.43 | 66 | 1.40 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

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STRANGER; February 16, 1956; 1908 GCT; 28°36'N, 118°18'W; sounding, 1500+ fm; wind, 310°, force 6;
weather, overcast; sea, very rough; wire angle, 13°.

110.70

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 15.47 | 33.50 | 5.79 | 322 | 0 | 15.47 | 33.50 | 5.79 | 24.73 | 322 | 0.00 |
| 9 | 15.42 | 33.50 | 5.59 | 321 | 10 | 15.42 | 33.50 | 5.59 | 24.74 | 321 | 0.03 |
| 55 | 15.44 | 33.51 | 5.62 | 321 | 20 | 15.42 | 33.50 | 5.59 | 24.74 | 321 | 0.06 |
| 64 | 15.45 | 33.48 | 5.60 | 323 | 30 | 15.42 | 33.50 | 5.59 | 24.74 | 321 | 0.10 |
| 74 | 15.44 | 33.48 | 5.71 | 323 | 50 | 15.44 | 33.51 | 5.61 | 24.74 | 321 | 0.16 |
| 89 | 14.58 | 33.45 | 5.71 | 306 | 75 | 15.44 | 33.48 | 5.71 | 24.72 | 323 | 0.24 |
| 109 | 13.15 | 33.50 | 5.24 | 275 | 100 | 13.80 | 33.47 | 5.45 | 25.07 | 290 | 0.32 |
| 133 | 11.64 | 33.45 | 4.87 | 252 | 150 | 10.74 | 33.50 | 4.44 | 25.67 | 233 | 0.45 |
| 162 | 10.16 | 33.58 | 4.15 | 216 | 200 | 9.23 | 33.83 | 3.72 | 26.18 | 184 | 0.56 |
| 213 | 9.02 | 33.90 | 3.61 | 176 | 250 | 8.58 | 34.03 | 2.96 | 26.45 | 159 | 0.64 |
| 288 | 8.13 | 34.11 | 2.18 | 147 | 300 | 8.02 | 34.13 | 2.00 | 26.60 | 144 | 0.72 |
| 393 | 7.20 | 34.22 | 1.00 | 126 | 400 | 7.10 | 34.22 | 0.98 | 26.82 | 124 | 0.86 |
| 528 | 5.62 | 34.22 | 0.58 | 106 | 500 | 5.92 | 34.22 | 0.62 | 26.96 | 110 | 0.99 |
| 711 | 4.86 | 34.39 | 0.39 | 85 | 600 | 5.23 | 34.30 | 0.48 | 27.11 | 96 | 1.10 |
| 937 | 4.13 | 34.48 | 0.70 | 70 | 700 | 4.90 | 34.39 | 0.40 | 27.22 | 86 | 1.19 |
| 1231 | 3.32 | 34.57 | 0.97 | 56 | 800 | 4.56 | 34.43 | 0.50 | 27.30 | 78 | 1.28 |
| | | | | | 1000 | 3.92 | 34.50 | 0.80 | 27.42 | 67 | 1.44 |

STRANGER; February 16, 1956; 1353 GCT; 28°16'N, 118°57.5'W; sounding, 2000+ fm; wind, 320°, force 6;
weather, overcast; sea, very rough; wire angle, 12°.

110.80

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 15.58 | 33.60 | 5.55 | 317 | 0 | 15.58 | 33.60 | 5.55 | 24.79 | 317 | 0.00 |
| 10 | 15.58 | 33.58 | 5.59 | 318 | 10 | 15.58 | 33.58 | 5.59 | 24.78 | 318 | 0.03 |
| 24 | 15.60 | 33.60 | 5.52 | 317 | 20 | 15.59 | 33.59 | 5.55 | 24.79 | 317 | 0.06 |
| 50 | 15.60 | 33.60 | 5.70 | 317 | 30 | 15.60 | 33.60 | 5.60 | 24.79 | 317 | 0.10 |
| 59 | 15.58 | 33.60 | 5.79 | 317 | 50 | 15.60 | 33.60 | 5.70 | 24.79 | 317 | 0.16 |
| 69 | 15.60 | 33.62 | 5.67 | 316 | 75 | 15.60 | 33.60 | 5.61 | 24.79 | 317 | 0.24 |
| 79 | 15.57 | 33.59 | 5.59 | 318 | 100 | 14.09 | 33.53 | 5.55 | 25.05 | 292 | 0.32 |
| 99 | 14.20 | 33.53 | 5.57 | 294 | 150 | 10.54 | 33.54 | 4.59 | 25.74 | 226 | 0.45 |
| 123 | 12.48 | 33.48 | 5.23 | 264 | 200 | 9.25 | 33.88 | 3.27 | 26.23 | 180 | 0.55 |
| 151 | 10.50 | 33.54 | 4.58 | 225 | 250 | 8.44 | 34.11 | 2.23 | 26.53 | 151 | 0.64 |
| 197 | 9.31 | 33.86 | 3.35 | 183 | 300 | 7.80 | 34.16 | 1.71 | 26.67 | 138 | 0.71 |
| 262 | 8.30 | 34.14 | 2.10 | 147 | 400 | 6.95 | 34.30 | 0.58 | 26.90 | 116 | 0.84 |
| 361 | 7.18 | 34.19 | 1.22 | 127 | 500 | 6.68 | 34.42 | 0.34 | 27.03 | 104 | 0.96 |
| 482 | 6.79 | 34.42 | 0.35 | 105 | 600 | 6.00 | 34.41 | 0.32 | 27.11 | 96 | 1.06 |
| 655 | 5.53 | 34.41 | 0.32 | 90 | 700 | 5.21 | 34.42 | 0.35 | 27.22 | 86 | 1.16 |
| 865 | 4.40 | 34.47 | 0.50 | 74 | 800 | 4.68 | 34.45 | 0.43 | 27.30 | 78 | 1.25 |
| 1158 | 3.62 | 34.57 | 0.81 | 59 | 1000 | 3.89 | 34.53 | 0.71 | 27.45 | 64 | 1.41 |

STRANGER; February 17, 1956; 2202 GCT; 29°22'N, 115°18'W; sounding, 30 fm; wind, 260°, force 2;
weather, clear; sea, moderate; wire angle, 00°.

113.30

| | | | | | | | | | | | |
|----|-------|-------|-------|-----|----|-------|-------|------|-------|-----|------|
| 0 | 12.60 | 33.61 | 5.96 | 257 | 0 | 12.60 | 33.61 | 5.96 | 25.42 | 257 | 0.00 |
| 10 | 11.98 | 33.52 | 6.25 | 252 | 10 | 11.98 | 33.52 | 6.25 | 25.47 | 252 | 0.03 |
| 20 | 11.89 | 33.51 | 5.42 | 251 | 20 | 11.89 | 33.51 | 5.42 | 25.48 | 251 | 0.05 |
| 30 | 11.68 | 33.53 | 5.05 | 246 | 30 | 11.68 | 33.53 | 5.05 | 25.53 | 246 | 0.08 |
| 50 | 10.33 | 33.72 | 2.20u | 209 | 50 | 10.33 | 33.72 | | 25.92 | 209 | 0.12 |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m | |

113.35

STRANGER; February 18, 1956; 0047 GCT; 29°11'N, 115°39'W; sounding, 600 fm; wind, 280°, force 3; weather, partly cloudy; sea, very rough; wire angle, 07°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.85 | 33.49 | 5.72 | 310 | 0 | 14.85 | 33.49 | 5.72 | 24.86 | 310 | 0.00 |
| 10 | 14.50 | 33.42 | 5.76 | 308 | 10 | 14.50 | 33.42 | 5.76 | 24.88 | 308 | 0.03 |
| 31 | 14.50 | 33.46 | 5.80 | 305 | 20 | 14.50 | 33.44 | 5.79 | 24.90 | 306 | 0.06 |
| 39 | 14.46 | 33.50 | 5.75 | 301 | 30 | 14.50 | 33.46 | 5.80 | 24.91 | 305 | 0.09 |
| 49 | 14.28 | 33.48 | 5.76 | 299 | 50 | 14.25 | 33.48 | 5.76 | 24.99 | 298 | 0.15 |
| 59 | 14.06 | 33.46 | 5.80 | 296 | 75 | 13.09 | 33.40 | 5.00 | 25.15 | 282 | 0.22 |
| 68 | 13.52 | 33.44 | 5.29 | 287 | 100 | 11.65 | 33.46 | 3.93 | 25.49 | 250 | 0.29 |
| 78 | 12.84 | 33.38 | 4.85 | 278 | 150 | 10.36 | 34.01 | 2.23 | 26.14 | 188 | 0.40 |
| 87 | 12.15 | 33.43 | 4.33 | 262 | 200 | 9.02 | 34.03 | 2.09 | 26.38 | 166 | 0.49 |
| 98 | 11.66 | 33.45 | 3.99 | 252 | 250 | 8.74 | 34.17 | 1.60 | 26.53 | 151 | 0.57 |
| 120 | 11.38 | 33.90 | 2.43 | 214 | 300 | 8.09 | 34.17 | 1.41 | 26.64 | 141 | 0.65 |
| 148 | 10.42 | 34.02 | 2.13 | 189 | 400 | 7.27 | 34.30 | 0.70 | 26.86 | 120 | 0.78 |
| 194 | 9.12 | 34.01 | 2.26 | 169 | 500 | 6.79 | 34.37 | 0.40 | 26.98 | 109 | 0.90 |
| 249 | 8.75 | 34.17 | 1.60 | 151 | | | | | | | |
| 346 | 7.53 | 34.18 | 1.22 | 133 | | | | | | | |
| 459 | 7.08 | 34.36 | 0.44 | 114 | | | | | | | |
| 579 | 5.98 | 34.38 | 0.35 | 98 | | | | | | | |

113.40

STRANGER; February 18, 1956; 0352 GCT; 29°01'N, 115°58'W; sounding, 600 fm; wind, 270°, force 4; weather, partly cloudy; sea, high; wire angle, 07°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 14.38 | 33.40 | 5.72 | 306 | 0 | 14.38 | 33.40 | 5.72 | 24.90 | 306 | 0.00 |
| 9 | 14.40 | 33.39 | 5.75 | 308 | 10 | 14.40 | 33.39 | 5.73 | 24.88 | 308 | 0.03 |
| 30 | 14.32 | 33.37 | 5.67 | 308 | 20 | 14.39 | 33.38 | 5.70 | 24.88 | 308 | 0.06 |
| 41 | 14.00 | 33.34 | 5.59 | 304 | 30 | 14.32 | 33.37 | 5.67 | 24.88 | 308 | 0.09 |
| 49 | 13.63 | 33.33 | 5.59 | 298 | 50 | 13.62 | 33.34 | 5.59 | 25.01 | 296 | 0.15 |
| 60 | 13.46 | 33.38 | 5.50 | 290 | 75 | 12.20 | 33.27 | 5.28 | 25.23 | 275 | 0.22 |
| 69 | 12.85 | 33.30 | 5.35 | 285 | 100 | 11.07 | 33.57 | 4.19 | 25.68 | 232 | 0.29 |
| 79 | 11.97 | 33.27 | 5.21 | 270 | 150 | 9.50 | 33.83 | 3.25 | 26.15 | 187 | 0.40 |
| 88 | 11.46 | 33.31 | 4.95 | 259 | 200 | 10.03 | 34.30 | 1.39 | 26.42 | 162 | 0.48 |
| 98 | 11.16 | 33.55 | 4.22 | 236 | 250 | 9.97 | 34.47 | 0.80 | 26.56 | 148 | 0.56 |
| 121 | 10.39 | 33.70 | 4.07 | 211 | 300 | 9.36 | 34.45 | 0.60 | 26.65 | 140 | 0.64 |
| 148 | 9.48 | 33.83 | 3.30 | 188 | 400 | 8.09 | 34.42 | 0.46 | 26.83 | 123 | 0.77 |
| 197 | 10.04 | 34.29 | 1.42 | 163 | 500 | 6.96 | 34.41 | 0.34 | 26.99 | 108 | 0.89 |
| 253 | 9.89 | 34.47 | 0.69 | 147 | 600 | (5.97) | (34.40) | | (27.10) | (97) | (1.00) |
| 352 | 8.64 | 34.42 | 0.53 | 132 | | | | | | | |
| 467 | 7.36 | 34.42 | 0.36 | 113 | | | | | | | |
| 587 | 6.05 | 34.40 | 0.32 | 98 | | | | | | | |

113.50

STRANGER; February 18, 1956; 0843 GCT; 28°41'N, 116°38'W; sounding, 2000+ fm; wind, 340°, force 4; weather, partly cloudy; sea, rough; wire angle, 15°.

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 14.47 | 33.58 | 5.94 | 296 | 0 | 14.47 | 33.58 | 5.94 | 25.01 | 296 | 0.00 |
| 10 | 14.50 | 33.59a) | 5.93 | 296 | 10 | 14.50 | 33.59 | 5.93 | 25.01 | 296 | 0.03 |
| 30 | 14.47 | 33.58 | 5.93 | 296 | 20 | 14.48 | 33.58 | 5.93 | 25.01 | 296 | 0.06 |
| 40 | 14.46 | 33.60 | 5.95 | 294 | 30 | 14.47 | 33.58 | 5.93 | 25.01 | 296 | 0.09 |
| 49 | 14.46 | 33.60 | 5.89 | 294 | 50 | 14.46 | 33.60 | 5.89 | 25.03 | 294 | 0.15 |
| 59 | 14.31 | 33.58 | 5.88 | 292 | 75 | 13.22 | 33.54 | 5.00 | 25.24 | 274 | 0.22 |
| 69 | 13.66 | 33.54 | 5.42 | 282 | 100 | 11.01 | 33.61 | 3.90 | 25.71 | 229 | 0.28 |
| 79 | 12.88 | 33.55 | 4.78 | 267 | 150 | 10.70 | 34.29 | 1.59 | 26.29 | 174 | 0.38 |
| 88 | 11.87 | 33.51 | 4.59 | 252 | 200 | 10.84 | 34.45 | 0.83 | 26.40 | 164 | 0.47 |
| 97 | 11.01 | 33.60 | 4.05 | 230 | 250 | 10.05 | 34.47 | 0.76 | 26.55 | 149 | 0.55 |
| 120 | 11.72 | 34.08 | 1.91 | 207 | 300 | 9.32 | 34.44 | 0.70 | 26.65 | 140 | 0.62 |
| 147 | 11.06 | 34.33 | 1.35 | 176 | 400 | 8.04 | 34.42 | 0.49 | 26.84 | 122 | 0.76 |
| 193 | 10.92 | 34.45 | 0.85 | 166 | 500 | 6.97 | 34.42 | 0.31 | 27.00 | 107 | 0.88 |
| 248 | 10.09 | 34.47 | 0.78 | 150 | 600 | (6.17) | (34.42) | | (27.10) | (97) | (0.99) |
| 346 | 8.64 | 34.42 | 0.61 | 131 | | | | | | | |
| 459 | 7.39 | 34.42 | 0.38 | 113 | | | | | | | |
| 580 | 6.38 | 34.42 | 0.25 | 100 | | | | | | | |

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

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

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SPENCER F. BAIRD; February 18, 1956; 1237 GCT; 28°22'N, 117°15'W; sounding, 1900 fm; wind, 320°, force 3; weather, missing; sea, rough; wire angle, 17°.

113.60

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 14.07 | 33.59 | | 286 | 0 | 14.07 | 33.59 | | 25.10 | 286 | 0.00 |
| 9 | 14.04 | 33.58 | | 286 | 10 | 14.01 | 33.58 | | 25.11 | 286 | 0.03 |
| 28 | 13.82 | 33.58 | | 283 | 20 | 13.98 | 33.58 | | 25.11 | 286 | 0.06 |
| 43 | 13.09 | 33.55 | | 270 | 30 | 13.80 | 33.58 | | 25.15 | 282 | 0.09 |
| 52 | 12.73 | 33.55 | | 263 | 50 | 12.79 | 33.55 | | 25.33 | 265 | 0.14 |
| 61 | 12.32 | 33.55 | | 256 | 75 | 11.18 | 33.59 | | 25.66 | 234 | 0.20 |
| 72 | 11.39 | 33.58 | | 237 | 100 | 10.02 | 33.79 | | 26.02 | 200 | 0.26 |
| 82 | 10.72 | 33.61 | | 224 | 150 | 10.17 | 34.22 | | 26.33 | 170 | 0.35 |
| 95 | 10.00 | 33.73 | | 203 | 200 | 9.32 | 34.25 | | 26.50 | 154 | 0.43 |
| 104 | 10.02 | 33.82 | | 198 | 250 | 9.29 | 34.38 | | 26.61 | 144 | 0.51 |
| 128 | 10.50 | 34.18 | | 178 | 300 | 8.78 | 34.40 | | 26.70 | 135 | 0.58 |
| 154 | 10.14 | 34.23 | | 168 | 400 | 7.28 | 34.36 | | 26.90 | 116 | 0.71 |
| 201 | 9.30 | 34.25 | | 154 | 500 | 6.46 | 34.34 | | 27.00 | 107 | 0.83 |
| 261 | 9.25 | 34.40 | | 142 | 600 | 5.79 | 34.38 | | 27.11 | 96 | 0.93 |
| 366 | 7.78 | 34.37 | | 122 | | | | | | | |
| 487 | 6.50 | 34.34 | | 108 | | | | | | | |
| 617 | 5.68 | 34.39 | | 94 | | | | | | | |

SPENCER F. BAIRD; February 18, 1956; 0815 GCT; 28°04'N, 117°52'W; sounding, 2000+ fm; wind, 320°, force 3; weather, cloudy; sea, very rough; wire angle, 21°.

113.70

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|--------|---------|--|---------|-------|--------|
| 0 | 14.14 | 33.58 | | 289 | 0 | 14.14 | 33.58 | | 25.08 | 289 | 0.00 |
| 9 | 14.13 | 33.54 | | 291 | 10 | 14.13 | 33.54 | | 25.06 | 291 | 0.03 |
| 28 | 14.12 | 33.58 | | 288 | 20 | 14.12 | 33.56 | | 25.07 | 290 | 0.06 |
| 41 | 13.40 | 33.52 | | 279 | 30 | 14.06 | 33.58 | | 25.10 | 287 | 0.08 |
| 50 | 13.02 | 33.58 | | 267 | 50 | 13.02 | 33.58 | | 25.31 | 267 | 0.14 |
| 59 | 12.74 | - | | - | 75 | 11.68 | 33.58 | | 25.56 | 243 | 0.21 |
| 68 | 12.46 | 33.58 | | 257 | 100 | 10.24 | 33.65 | | 25.88 | 213 | 0.26 |
| 76 | 11.56 | 33.58 | | 240 | 150 | 9.47 | 33.98 | | 26.26 | 177 | 0.36 |
| 89 | 10.61 | 33.60 | | 223 | 200 | 8.84 | (34.14) | | (26.49) | (155) | (0.45) |
| 97 | 10.34 | 33.63 | | 216 | 250 | 7.90 | (34.15) | | (26.65) | (140) | (0.52) |
| 120 | 10.02 | 33.77 | | 201 | 300 | 7.14 | (34.15) | | (26.75) | (130) | (0.59) |
| 143 | 9.60 | 33.93 | | 182 | 400 | 6.35 | 34.23 | | 26.92 | 114 | (0.72) |
| 188 | 9.02 | 34.14 | | 158 | 500 | 6.04 | 34.31 | | 27.03 | 104 | (0.83) |
| 242 | 8.01 | - | | - | 600 | (5.63) | (34.36) | | (27.11) | (96) | (0.94) |
| 341 | 6.68 | 34.16 | | 123 | | | | | | | |
| 459 | 6.16 | 34.29 | | 107 | | | | | | | |
| 587 | 5.69 | 34.35 | | 97 | | | | | | | |

SPENCER F. BAIRD; February 17, 1956; 0937 GCT; 28°29'N, 115°36'W; sounding, 500 fm; wind, 320°, force 4; weather, missing; sea, rough; wire angle, 25°.

117.40

| | | | | | | | | | | | |
|-----|-------|-------|----|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 13.47 | 33.67 | a) | 269 | 0 | 13.47 | 33.67 | | 25.29 | 269 | 0.00 |
| 9 | 13.48 | 33.67 | | 270 | 10 | 13.48 | 33.66 | | 25.28 | 270 | 0.03 |
| 27 | 13.48 | 33.63 | | 272 | 20 | 13.48 | 33.63 | | 25.26 | 272 | 0.05 |
| 41 | 12.65 | 33.60 | | 258 | 30 | 13.48 | 33.62 | | 25.26 | 272 | 0.08 |
| 54 | 11.84 | 33.60 | | 244 | 50 | 12.08 | 33.60 | | 25.51 | 248 | 0.13 |
| 63 | 11.18 | 33.60 | | 230 | 75 | 10.77 | 33.64 | | 25.78 | 222 | 0.19 |
| 73 | 10.81 | - | | - | 100 | 10.40 | 33.85 | | 26.01 | 201 | 0.25 |
| 87 | 10.44 | 33.75 | | 209 | 150 | 10.73 | 34.33 | | 26.32 | 171 | 0.34 |
| 96 | 10.38 | 33.82 | | 203 | 200 | 10.19 | 34.41 | | 26.48 | 156 | 0.42 |
| 109 | 10.44 | 33.92 | | 196 | 250 | 9.67 | 34.40 | | 26.56 | 148 | 0.50 |
| 136 | 9.90 | 34.09 | | 175 | 300 | 9.16 | 34.38 | | 26.63 | 142 | 0.57 |
| 162 | 10.56 | 34.34 | | 167 | 400 | 8.38 | 34.38 | | 26.75 | 130 | 0.71 |
| 214 | 10.06 | 34.42 | | 153 | 500 | 6.94 | 34.34 | | 26.93 | 113 | 0.84 |
| 276 | 9.36 | 34.38 | | 145 | 600 | 6.05 | 34.36 | | 27.07 | 100 | 0.95 |
| 384 | 8.56 | 34.38 | | 133 | | | | | | | |
| 514 | 6.78 | 34.34 | | 111 | | | | | | | |
| 650 | 5.90 | 34.37 | | 98 | | | | | | | |

a) One oxygen sample missing; values are listed in order of increasing depth: 6.12, 6.03, 5.16, 4.40, 3.89, 3.63, 2.89, 2.49, 2.42, 2.23, 1.16, 0.97, 0.67, 0.47, 0.40, 0.27.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

117.50 SPENCER F. BAIRD; February 17, 1956; 1757 GCT; 28°08'N, 116°15'W; sounding, 2100 fm; wind, 320°, force 2; weather, cloudy; sea, very rough; wire angle, 17°.

| | | | | | | | | | | | |
|-----|-------|-------|-------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.23 | 33.69 | 5.84 | 303 | 0 | 15.23 | 33.69 | 5.84 | 24.93 | 303 | 0.00 |
| 10 | 15.20 | 33.64 | 5.75 | 306 | 10 | 15.20 | 33.64 | 5.75 | 24.90 | 306 | 0.03 |
| 28 | 15.06 | 33.68 | 5.79 | 300 | 20 | 15.13 | 33.67 | 5.77 | 24.94 | 302 | 0.06 |
| 42 | 15.04 | 33.67 | 5.77 | 301 | 30 | 15.06 | 33.67 | 5.79 | 24.95 | 301 | 0.09 |
| 52 | 14.92 | 33.64 | 5.82 | 300 | 50 | 14.99 | 33.64 | 5.80 | 24.95 | 301 | 0.15 |
| 60 | 13.53 | 33.55 | 5.35 | 278 | 75 | 12.88 | 33.55 | 5.23 | 25.32 | 266 | 0.22 |
| 69 | 13.16 | 33.56 | 5.41 | 291 | 100 | 10.79 | 33.56 | 3.72 | 25.71 | 229 | 0.28 |
| 80 | 12.72 | - | 5.10 | - | 150 | 9.43 | 33.92 | 2.37 | 26.23 | 180 | 0.39 |
| 93 | 11.07 | 33.51 | 4.13 | 237 | 200 | 8.98 | 34.12 | 2.20 | 26.46 | 158 | 0.47 |
| 103 | 10.66 | 33.62 | 4.28u | 222 | 250 | 8.27 | 34.16 | 1.96 | 26.60 | 145 | 0.55 |
| 125 | 10.14 | 33.84 | 2.67 | 197 | 300 | 7.87 | 34.28 | 1.30 | 26.75 | 130 | 0.62 |
| 152 | 9.40 | 33.93 | 3.38u | 179 | 400 | 7.28 | 34.36 | 0.44 | 26.90 | 116 | 0.75 |
| 202 | 8.98 | 34.13 | 2.20 | 158 | 500 | 6.52 | 34.36 | 0.33 | 27.01 | 106 | 0.86 |
| 261 | 8.12 | 34.18 | 1.85 | 141 | 600 | 6.04 | 34.41 | 0.31 | 27.11 | 96 | 0.97 |
| 369 | 7.54 | 34.36 | 0.53 | 120 | | | | | | | |
| 491 | 6.60 | 34.36 | 0.34 | 107 | | | | | | | |
| 623 | 5.96 | 34.42 | 0.31 | 94 | | | | | | | |

117.60 SPENCER F. BAIRD; February 17, 1956; 2326 GCT; 27°48'N, 116°52'W; sounding, 2000+ fm; wind, 320°, force 2; weather, overcast; sea, very rough; wire angle, 10°.

| | | | | | | | | | | | |
|-----|-------|---------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 15.24 | 33.62a) | | 309 | 0 | 15.24 | 33.62 | | 24.87 | 309 | 0.00 |
| 10 | 15.10 | 33.62 | | 306 | 10 | 15.10 | 33.62 | | 24.90 | 306 | 0.03 |
| 30 | 15.06 | 33.61 | | 306 | 20 | 15.10 | 33.61 | | 24.90 | 306 | 0.06 |
| 45 | 15.05 | 33.60 | | 306 | 30 | 15.06 | 33.61 | | 24.90 | 306 | 0.09 |
| 54 | 15.05 | 33.60 | | 306 | 50 | 15.05 | 33.60 | | 24.90 | 306 | 0.15 |
| 63 | 13.80 | 33.52 | | 287 | 75 | 12.60 | 33.52 | | 25.34 | 264 | 0.22 |
| 72 | 12.71 | 33.52 | | 266 | 100 | 11.01 | 33.58 | | 25.69 | 231 | 0.29 |
| 82 | 12.28 | 33.51 | | 259 | 150 | 9.48 | 33.87 | | 26.18 | 184 | 0.39 |
| 96 | 11.24 | 33.58 | | 236 | 200 | 8.27 | 34.02 | | 26.49 | 155 | 0.48 |
| 105 | 10.77 | 33.57 | | 227 | 250 | 7.59 | 34.10 | | 26.65 | 140 | 0.55 |
| 129 | 10.21 | 33.80 | | 202 | 300 | 7.27 | 34.20 | | 26.78 | 128 | 0.62 |
| 156 | 9.30 | 33.89 | | 180 | 400 | 6.99 | 34.34 | | 26.93 | 113 | 0.75 |
| 206 | 8.17 | 34.05 | | 151 | 500 | 6.35 | 34.41 | | 27.07 | 100 | 0.86 |
| 267 | 7.48 | 34.12 | | 137 | 600 | 5.68 | 34.42 | | 27.16 | 92 | 0.96 |
| 376 | 7.05 | 34.33 | | 116 | | | | | | | |
| 501 | 6.34 | 34.41 | | 100 | | | | | | | |
| 634 | 5.55 | 34.42 | | 90 | | | | | | | |

117.70 SPENCER F. BAIRD; February 18, 1956; 0343 GCT; 27°32'N, 117°31.5'W; sounding, 2100 fm; wind, 320°, force 3; weather, cloudy; sea, very rough; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|--------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.22 | 33.63 | 5.86 | 307 | 0 | 15.22 | 33.63 | 5.86 | 24.89 | 307 | 0.00 |
| 10 | 15.20 | 33.62 | - | 308 | 10 | 15.20 | 33.62 | 5.80 | 24.88 | 308 | 0.03 |
| 29 | 15.23 | 33.64 | 5.90 | 307 | 20 | 15.22 | 33.63 | 5.83 | 24.89 | 307 | 0.06 |
| 43 | 15.22 | 33.64 | - | 307 | 30 | 15.23 | 33.64 | 5.83 | 24.89 | 307 | 0.09 |
| 54 | 15.16 | 33.60 | 5.74 | 308 | 50 | 15.17 | 33.62 | 5.76 | 24.89 | 307 | 0.15 |
| 63 | 13.38 | 33.48 | - | 281 | 75 | 12.38 | 33.49 | 5.22 | 25.36 | 262 | 0.22 |
| 72 | 12.59 | 33.49 | 5.32 | 265 | 100 | 11.10 | 33.61 | 3.84 | 25.69 | 231 | 0.29 |
| 83 | 11.96 | 33.51 | - | 253 | 150 | 9.51 | 34.10 | 2.26 | 26.35 | 168 | 0.39 |
| 95 | 11.36 | 33.58 | - | 237 | 200 | 9.15 | 34.25 | 0.87 | 26.53 | 151 | 0.47 |
| 105 | 10.77 | 33.51r | 3.42 | - | 250 | 8.83 | 34.35 | 0.77 | 26.66 | 139 | 0.54 |
| 128 | 9.70 | 33.77 | 2.48 | 196 | 300 | 8.42 | 34.38 | 0.69 | 26.74 | 131 | 0.61 |
| 156 | 9.48 | 34.13 | 2.21 | 166 | 400 | 7.19 | 34.37 | 0.50 | 26.92 | 114 | 0.74 |
| 206 | 9.10 | 34.27 | 0.84 | 149 | 500 | 5.90 | 34.33 | 0.41 | 27.06 | 101 | 0.85 |
| 267 | 8.73 | 34.36 | 0.74 | 137 | 600 | 5.32 | 34.37 | 0.31 | 27.16 | 91 | 0.95 |
| 375 | 7.51 | 34.38 | 0.52 | 118 | | | | | | | |
| 498 | 5.96 | 34.33 | 0.42 | 101 | | | | | | | |
| 629 | 5.24 | 34.38 | 0.29 | 90 | | | | | | | |

a) Salinity bottle numbers were not recorded on the data sheet. Since standard handling and titrating procedures were used, these salinity values are assumed to be in the order listed.

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

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SPENCER F. BAIRD; February 17, 1956; 1207 GCT; 28°13.5'N, 115°23'W; sounding, 140 fm; wind, 340°, force 3; weather, missing; sea, very rough; wire angle, 12°.

118.39

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 13.59 | 33.65 | | 272 | 0 | 13.59 | 33.65 | | 25.26 | 272 | 0.00 |
| 11 | 13.59 | 33.65 | | 272 | 10 | 13.59 | 33.65 | | 25.26 | 272 | 0.03 |
| 15 | 13.60 | 33.65 | | 273 | 20 | 13.60 | 33.65 | | 25.26 | 272 | 0.05 |
| 21 | 13.60 | 33.66 | | 272 | 30 | 13.02 | 33.63 | | 25.34 | 264 | 0.08 |
| 24 | 13.36 | 33.64 | | 269 | 50 | 12.20 | 33.69 | | 25.55 | 244 | 0.13 |
| 29 | 13.06 | 33.62 | | 265 | 75 | 10.72 | 33.71 | | 25.85 | 216 | 0.19 |
| 34 | 12.96 | 33.68 | | 258 | 100 | 10.23 | 33.92 | | 26.09 | 193 | 0.24 |
| 45 | - | 33.69 | | - | 150 | 10.73 | 34.31 | | 26.30 | 173 | 0.33 |
| 55 | 11.69 | 33.70 | | 234 | 200 | 10.83 | 34.47 | | 26.41 | 163 | 0.42 |
| 64 | 10.90 | - | | - | | | | | | | |
| 74 | 10.78 | 33.71 | | 217 | | | | | | | |
| 93 | 10.13 | 33.89 | | 193 | | | | | | | |
| 107 | 10.51 | 33.98 | | 193 | | | | | | | |
| 135 | 10.64 | 34.23 | | 177 | | | | | | | |
| 168 | 10.84 | 34.39 | | 168 | | | | | | | |
| 203 | 10.83 | 34.48 | | 162 | | | | | | | |

SPENCER F. BAIRD; February 16, 1956; 1735 GCT; 28°19.5'N, 114°53.5'W; sounding, 53 fm; wind, 320°, force 4; weather, cloudy; sea, rough; wire angle, 05°.

119.33

| | | | | | | | | | | | |
|----|-------|-------|--|-----|----|-------|-------|--|-------|-----|------|
| 0 | 13.90 | 33.68 | | 276 | 0 | 13.90 | 33.68 | | 25.21 | 276 | 0.00 |
| 10 | 14.08 | - | | 275 | 10 | 14.08 | 33.68 | | 25.17 | 280 | 0.03 |
| 20 | 14.08 | 33.68 | | 280 | 20 | 14.08 | 33.68 | | 25.17 | 280 | 0.06 |
| 30 | 14.05 | 33.68 | | 279 | 30 | 14.05 | 33.68 | | 25.18 | 279 | 0.08 |
| 50 | 13.34 | 33.67 | | 266 | 50 | 13.34 | 33.67 | | 25.32 | 266 | 0.14 |
| 75 | 12.02 | 33.63 | | 245 | 75 | 12.02 | 33.63 | | 25.54 | 245 | 0.20 |

SPENCER F. BAIRD; February 16, 1956; 1048 GCT; 27°42'N, 115°32.5'W; sounding, 1180 fm; wind, 270°, force 3; weather, missing; sea, rough; wire angle, 15°.

120.45

| | | | | | | | | | | | |
|-----|---------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 14.68 | 33.78 | | 285 | 0 | 14.68 | 33.78 | | 25.12 | 285 | 0.00 |
| 10 | 14.68 | 33.80 | | 284 | 10 | 14.68 | 33.80 | | 25.13 | 284 | 0.03 |
| 29 | 14.56a) | 33.83 | | 279 | 20 | 14.61 | 33.83 | | 25.17 | 280 | 0.06 |
| 43 | 12.94 | 33.83 | | 247 | 30 | 14.56 | 33.83 | | 25.18 | 279 | 0.08 |
| 53 | 12.29 | 33.80 | | 238 | 50 | 12.60 | 33.82 | | 25.58 | 242 | 0.14 |
| 62 | 10.90 | 33.65 | | 224 | 75 | 11.03 | 33.82 | | 25.87 | 214 | 0.19 |
| 72 | 10.96 | 33.74 | | 218 | 100 | 10.60 | 34.07 | | 26.14 | 188 | 0.24 |
| 81 | 11.11 | 33.91 | | 208 | 150 | 9.98 | 34.18 | | 26.33 | 170 | 0.34 |
| 96 | 10.88 | 34.09 | | 191 | 200 | 9.74 | 34.36 | | 26.52 | 152 | 0.42 |
| 105 | 10.22 | 34.04 | | 185 | 250 | 9.72 | 34.52 | | 26.65 | 140 | 0.49 |
| 128 | 10.12 | - | | - | 300 | 9.41 | 34.59 | | 26.75 | 130 | 0.56 |
| 156 | 9.94 | 34.22 | | 166 | 400 | 8.23 | 34.52 | | 26.88 | 118 | 0.69 |
| 206 | 9.74 | 34.38 | | 151 | 500 | 6.87 | 34.42 | | 27.01 | 106 | 0.81 |
| 265 | 9.70 | 34.55 | | 138 | 600 | 6.16 | 34.43 | | 27.10 | 97 | 0.91 |
| 372 | 8.60 | 34.55 | | 121 | | | | | | | |
| 495 | 6.94 | 34.42 | | 107 | | | | | | | |
| 627 | 6.03 | 34.43 | | 95 | | | | | | | |

a) Mean value of 14.48 and 14.65°C.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-----------------------|--------------|----|---|----------------|------------|-----------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm ³ /g | m | °C | ‰ | ml/L | g/L | 10 cm ³ /g | dyn. m |

120.50

SPENCER F. BAIRD; February 16, 1956; 0808 GCT; 27°34'N, 115°50'W; sounding, 2250 fm; wind, 320°, force 3; weather, overcast; sea, rough; wire angle, 15°.

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 15.67 | 33.69 | | 312 | 0 | 15.67 | 33.69 | | 24.84 | 312 | 0.00 |
| 10 | 15.66 | 33.68 | | 313 | 10 | 15.66 | 33.68 | | 24.83 | 313 | 0.03 |
| 29 | 15.67 | 33.70 | | 311 | 20 | 15.66 | 33.69 | | 24.84 | 312 | 0.06 |
| 43 | 15.66 | 33.69 | | 312 | 30 | 15.66 | 33.70 | | 24.85 | 311 | 0.09 |
| 53 | 15.64 | 33.68 | | 313 | 50 | 15.64 | 33.68 | | 24.84 | 312 | 0.16 |
| 63 | 14.26 | 33.54 | | 294 | 75 | 12.85 | 33.54 | | 25.32 | 266 | 0.23 |
| 72 | 13.16 | 33.55 | | 271 | 100 | 10.80 | 33.50 | | 25.66 | 234 | 0.29 |
| 81 | 12.18 | 33.52 | | 256 | 150 | 9.59 | 33.93 | | 26.21 | 182 | 0.40 |
| 96 | 10.96 | 33.48 | | 237 | 200 | 8.92 | 34.15 | | 26.49 | 155 | 0.48 |
| 105 | 10.63 | 33.54 | | 228 | 250 | 8.61 | 34.28 | | 26.64 | 141 | 0.56 |
| 129 | 10.24 | 33.82 | | 201 | 300 | 8.04 | 34.29 | | 26.73 | 132 | 0.63 |
| 154 | 9.56 | 33.94 | | 180 | 400 | 6.77 | 34.30 | | 26.92 | 114 | 0.76 |
| 204 | 8.88 | 34.16 | | 154 | 500 | 6.24 | 34.36 | | 27.04 | 103 | 0.87 |
| 261 | 8.57 | 34.29 | | 139 | 600 | 5.80 | 34.42 | | 27.14 | 93 | 0.97 |
| 365 | 7.14 | 34.28 | | 120 | | | | | | | |
| 486 | 6.24 | 34.36 | | 103 | | | | | | | |
| 617 | 5.78 | 34.43 | | 92 | | | | | | | |

120.55

SPENCER F. BAIRD; February 16, 1956; 0516 GCT; 27°26'N, 116°06'W; sounding, 2200 fm; wind, 360°, force 2; weather, overcast; sea, moderate; wire angle, 12°.

| | | | | | | | | | | | |
|------|-------|---------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 15.82 | 33.69 | 5.69 | 316 | 0 | 15.82 | 33.69 | 5.69 | 24.80 | 316 | 0.00 |
| 10 | 15.81 | 33.68 | 5.75 | 317 | 10 | 15.81 | 33.68 | 5.75 | 24.79 | 317 | 0.03 |
| 25 | 15.81 | 33.68 | 5.70 | 317 | 20 | 15.81 | 33.68 | 5.70 | 24.79 | 317 | 0.06 |
| 54 | 15.79 | 33.62 | 5.69 | 320 | 30 | 15.81 | 33.67 | 5.70 | 24.78 | 318 | 0.10 |
| 63 | 14.62 | 33.57a) | 5.72 | 300 | 50 | 15.80 | 33.63 | 5.69 | 24.76 | 319 | 0.16 |
| 73 | 14.08 | 33.49 | 5.75 | 294 | 75 | 13.98 | 33.49 | 5.74 | 25.05 | 292 | 0.24 |
| 87 | 13.17 | 33.55 | 5.40 | 271 | 100 | 12.00 | 33.51 | 4.69 | 25.46 | 253 | 0.30 |
| 106 | 11.50 | 33.50 | 4.35 | 245 | 150 | 9.83 | 33.86 | 2.82 | 26.11 | 191 | 0.42 |
| 129 | - | 33.64 | 3.77 | - | 200 | 8.98 | 34.06 | 2.22 | 26.42 | 162 | 0.51 |
| 157 | 9.60 | 33.91 | 2.67 | 183 | 250 | 8.65 | 34.22 | 1.69 | 26.58 | 146 | 0.59 |
| 208 | 9.21 | 34.14 | 1.96 | 161 | 300 | 7.93 | 34.28 | 1.22 | 26.74 | 131 | 0.66 |
| 282 | 8.14 | 34.26 | 1.41 | 136 | 400 | 7.11 | 34.33 | 0.57 | 26.90 | 116 | 0.79 |
| 383 | 7.27 | 34.33 | 0.61 | 119 | 500 | 6.11 | 34.33 | 0.49 | 27.04 | 103 | 0.90 |
| 518 | 5.94 | 34.33 | 0.48 | 101 | 600 | 5.45 | 34.37 | 0.41 | 27.14 | 93 | 1.00 |
| 699 | 5.07 | 34.43 | 0.40 | 84 | 700 | 5.07 | 34.43 | 0.40 | 27.24 | 84 | 1.10 |
| 926 | 4.30 | 34.51 | 0.57 | 70 | 800 | 4.80 | 34.46 | 0.44 | 27.29 | 79 | 1.19 |
| 1227 | 3.41 | 34.55 | 0.81 | 58 | 1000 | 4.00 | 34.52 | 0.66 | 27.43 | 66 | 1.35 |

120.60

SPENCER F. BAIRD; February 16, 1956; 0148 GCT; 27°15.5'N, 116°27'W; sounding, 2000+ fm; wind, 320°, force 2; weather, cloudy; sea, rough; wire angle, 10°.

| | | | | | | | | | | | |
|------|-------|-------|-------|-----|------|-------|---------|------|---------|-------|--------|
| 0 | 15.64 | 33.68 | 5.77 | 312 | 0 | 15.64 | 33.68 | 5.77 | 24.84 | 312 | 0.00 |
| 10 | 15.62 | - | 5.83 | - | 10 | 15.62 | 33.67 | 5.83 | 24.84 | 312 | 0.03 |
| 25 | 15.58 | 33.66 | 5.82 | 312 | 20 | 15.60 | 33.67 | 5.82 | 24.84 | 312 | 0.06 |
| 54 | 15.58 | 33.66 | 5.77 | 312 | 30 | 15.58 | 33.66 | 5.82 | 24.84 | 312 | 0.09 |
| 64 | 15.58 | 33.66 | 5.77 | 312 | 50 | 15.58 | 33.66 | 5.80 | 24.84 | 312 | 0.16 |
| 74 | 15.47 | - | 5.85 | - | 75 | 15.40 | 33.62 | 5.84 | 24.84 | 312 | 0.23 |
| 88 | 13.47 | 33.31 | 5.43 | 296 | 100 | 12.68 | 33.34 | 5.18 | 25.20 | 278 | 0.31 |
| 107 | 12.21 | - | 4.96 | - | 150 | 10.08 | 33.71 | 3.48 | 25.95 | 206 | 0.43 |
| 130 | 10.70 | 33.50 | 4.05 | 232 | 200 | 8.99 | 33.97 | 2.58 | 26.33 | 170 | 0.53 |
| 158 | 9.94 | 33.78 | 3.35 | 198 | 250 | 8.92 | 34.24 | 1.43 | 26.56 | 148 | 0.61 |
| 206 | 8.93 | 33.98 | 2.43 | 168 | 300 | 8.67 | (34.36) | 1.28 | (26.69) | (136) | (0.68) |
| 279 | 8.92 | 34.36 | 1.40 | 139 | 400 | 7.44 | (34.35) | 0.88 | (26.87) | (119) | (0.82) |
| 379 | 7.66 | - | 0.96 | - | 500 | 6.38 | (34.35) | 0.46 | (27.01) | (106) | (0.93) |
| 510 | 6.28 | 34.35 | 0.44 | 104 | 600 | 5.75 | 34.39 | 0.47 | 27.12 | 95 | (1.04) |
| 687 | 5.30 | 34.43 | 0.48 | 87 | 700 | 5.24 | (34.44) | 0.48 | (27.22) | (86) | (1.14) |
| 909 | 4.35 | - | 0.46 | - | 800 | 4.84 | - | 0.47 | - | - | - |
| 1205 | 3.54 | - | 0.97u | - | 1000 | 4.00 | - | - | - | - | - |

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

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|----------------|--------------|----|---|----------------|------------|----------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | 10^{-5} cm/g | m | °C | ‰ | ml/L | g/L | 10^{-5} cm/g | dyn. m |

SPENCER F. BAIRD; February 15, 1956; 2043 GCT; 26°53.5'N, 117°09.5'W; sounding, 2600 fm; wind, 300°, force 2; weather, cloudy; sea, rough; wire angle, 17°.

120.70

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|---------|------|---------|-------|--------|
| 0 | 16.61 | - | 5.75 | - | 0 | 16.61 | (33.82) | 5.75 | (24.70) | (325) | (0.00) |
| 10 | 16.56 | 33.80 | 5.66 | 324 | 10 | 16.56 | 33.80 | 5.66 | 24.71 | 324 | 0.03 |
| 24 | 16.54 | 33.80 | 5.63 | 323 | 20 | 16.56 | 33.80 | 5.64 | 24.72 | 323 | 0.06 |
| 52 | 15.94 | 33.68 | 5.61 | 319 | 30 | 16.43 | 33.79 | 5.62 | 24.73 | 322 | 0.10 |
| 61 | 15.83 | 33.63 | 5.66 | 321 | 50 | 16.03 | 33.70 | 5.61 | 24.76 | 319 | 0.16 |
| 70 | 15.79 | 33.62 | 5.74 | 319 | 75 | 15.63 | 33.60 | 5.74 | 24.78 | 318 | 0.24 |
| 85 | 15.12 | 33.48 | 5.69 | 316 | 100 | 14.44 | 33.41 | 5.67 | 24.88 | 308 | 0.32 |
| 103 | 14.28 | - | 5.66 | - | 150 | 10.67 | 33.36 | 4.45 | 25.58 | 241 | 0.46 |
| 126 | 12.13 | 33.31 | 5.00 | 271 | 200 | 9.54 | 33.51 | 3.56 | 25.88 | 213 | 0.57 |
| 154 | 10.56 | - | 4.38 | - | 250 | 8.40 | 33.81 | 3.32 | 26.30 | 173 | 0.67 |
| 201 | 9.53 | 33.51 | 3.54 | 212 | 300 | 7.60 | 34.08 | 2.90 | 26.63 | 142 | 0.76 |
| 271 | 7.97 | 34.02 | 3.19 | 148 | 400 | 6.84 | 34.29 | 1.33 | 26.90 | 116 | 0.89 |
| 369 | 7.00 | - | 1.67 | - | 500 | 6.38 | 34.36 | 0.65 | 27.03 | 104 | 1.00 |
| 497 | 6.40 | 34.36 | 0.65 | 105 | 600 | 5.82 | 34.41 | 0.64 | 27.13 | 94 | 1.11 |
| 669 | 5.36 | 34.45 | 0.64 | 86 | 700 | 5.16 | 34.46 | 0.63 | 27.25 | 83 | 1.20 |
| 885 | 4.42 | 34.51 | 0.61 | 71 | 800 | 4.67 | 34.50 | 0.61 | 27.33 | 75 | 1.29 |
| 1180 | 3.55 | 34.56 | 0.78 | 58 | 1000 | 4.07 | 34.53 | 0.67 | 27.43 | 66 | 1.45 |

SPENCER F. BAIRD; February 15, 1956; 0547 GCT; 27°14'N, 114°59'W; sounding, 850 fm; wind, 320°, force 3; weather, overcast; sea, rough; wire angle, 20°.

123.42

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.64 | 33.89 | 5.68 | 297 | 0 | 15.64 | 33.89 | 5.68 | 25.00 | 297 | 0.00 |
| 9 | 15.62 | 33.90 | 5.72 | 296 | 10 | 15.62 | 33.91 | 5.73 | 25.02 | 295 | 0.03 |
| 28 | 15.62 | 33.91 | 5.82 | 295 | 20 | 15.62 | 33.91 | 5.78 | 25.02 | 295 | 0.06 |
| 42 | 13.01 | 33.75 | 3.77 | 255 | 30 | 15.61 | 33.91 | 5.81 | 25.03 | 294 | 0.09 |
| 56 | 12.34 | 33.93 | 2.77 | 229 | 50 | 12.62 | 33.84 | 3.22 | 25.60 | 240 | 0.14 |
| 65 | 11.90 | 33.93 | 2.55 | 221 | 75 | 11.58 | 34.00 | 2.30 | 25.91 | 210 | 0.20 |
| 74 | 11.65 | 33.98 | 2.32 | 213 | 100 | 10.72 | 34.07 | 2.30 | 26.12 | 190 | 0.25 |
| 88 | 11.16 | 34.05 | 2.24 | 199 | 150 | 10.02 | 34.33 | 1.66 | 26.45 | 159 | 0.34 |
| 96 | 10.84 | 34.07 | 2.27 | 192 | 200 | 10.16 | 34.52 | 1.20 | 26.56 | 148 | 0.42 |
| 110 | 10.08 | 34.04 | 2.42 | 182 | 250 | 9.79 | 34.54 | 0.49 | 26.65 | 140 | 0.49 |
| 138 | 9.79 | 34.14 | 2.08 | 170 | 300 | 9.27 | 34.54 | 0.40 | 26.73 | 132 | 0.56 |
| 165 | 10.16 | 34.45 | 1.46 | 152 | 400 | 8.43 | 34.53 | 0.24 | 26.86 | 120 | 0.69 |
| 219 | 10.16 | 34.54 | 0.60 | 145 | 500 | 7.21 | 34.48 | 0.30 | 27.01 | 106 | 0.81 |
| 283 | 9.44 | 34.54 | 0.44 | 134 | 600 | 6.19 | 34.48 | 0.27 | 27.14 | 93 | 0.91 |
| 394 | 8.52 | 34.53 | 0.24 | 121 | | | | | | | |
| 526 | 6.82 | 34.47 | 0.31 | 102 | | | | | | | |
| 660 | 5.84 | 34.49 | 0.22 | 88 | | | | | | | |

SPENCER F. BAIRD; February 15, 1956; 0947 GCT; 26°58'N, 115°30.5'W; sounding, 2000 fm; wind, 340°, force 3; weather, overcast; sea, rough; wire angle, 25°.

123.50

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.75 | 33.77 | 5.87 | 308 | 0 | 15.75 | 33.77 | 5.87 | 24.88 | 308 | 0.00 |
| 8 | 15.74 | 33.76 | 5.79 | 308 | 10 | 15.74 | 33.75 | 5.79 | 24.87 | 309 | 0.03 |
| 27 | 15.76 | 33.72 | 5.66 | 312 | 20 | 15.75 | 33.74 | 5.75 | 24.85 | 311 | 0.06 |
| 41 | 15.74 | 33.72 | 5.69 | 311 | 30 | 15.75 | 33.72 | 5.67 | 24.85 | 311 | 0.09 |
| 50 | 15.72 | 33.75 | 5.74 | 309 | 50 | 15.72 | 33.75 | 5.74 | 24.87 | 309 | 0.16 |
| 59 | 15.57 | 33.73 | 5.77 | 306 | 75 | 13.96 | 33.60 | 5.50 | 25.13 | 284 | 0.23 |
| 67 | 15.01 | 33.68 | 5.82 | 300 | 100 | 11.44 | 33.52 | 4.78 | 25.56 | 243 | 0.30 |
| 77 | 13.69 | 33.58 | 5.39 | 280 | 150 | 9.72 | 33.92 | 3.30 | 26.18 | 185 | 0.41 |
| 89 | - | 33.52 | 5.11 | - | 200 | 9.50 | 34.30 | 1.40 | 26.51 | 153 | 0.49 |
| 97 | 11.68 | 33.52 | 4.86 | 247 | 250 | 9.28 | 34.49 | 0.98 | 26.69 | 136 | 0.57 |
| 118 | 10.47 | 33.58 | 4.10 | 223 | 300 | 9.02 | 34.54 | 0.70 | 26.78 | 128 | 0.63 |
| 140 | 9.82 | 33.77 | 3.56 | 198 | 400 | 7.87 | 34.47 | 0.36 | 26.90 | 116 | 0.76 |
| 184 | 9.58 | 34.22 | 2.01 | 160 | 500 | 6.67 | 34.43 | 0.29 | 27.04 | 103 | 0.88 |
| 233 | 9.40 | 34.42 | 1.07 | 143 | | | | | | | |
| 328 | 8.84 | 34.54 | 0.63 | 126 | | | | | | | |
| 442 | 7.30 | 34.43 | 0.28 | 111 | | | | | | | |
| 569 | 6.16 | 34.43 | 0.31 | 96 | | | | | | | |

S10
CCOF1
5602

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δ_T | Z | T | S | O ₂ | σ_t | δ_T | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

123.55

SPENCER F. BAIRD; February 15, 1956; 1250 GCT; 26°48'N, 115°49.5'W; sounding, 2000 fm; wind, 340°, force 3; weather, missing; sea, moderate; wire angle, 17°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 16.04 | 33.72 | 5.70 | 317 | 0 | 16.04 | 33.72 | 5.70 | 24.79 | 317 | 0.00 |
| 10 | 16.02 | 33.75 | 5.83 | 315 | 10 | 16.02 | 33.75 | 5.83 | 24.81 | 315 | 0.03 |
| 28 | 16.02 | 33.71 | 5.74 | 318 | 20 | 16.02 | 33.73 | 5.76 | 24.79 | 317 | 0.06 |
| 43 | 16.02 | 33.73 | 5.66 | 317 | 30 | 16.02 | 33.71 | 5.70 | 24.78 | 318 | 0.09 |
| 57 | 16.02 | 33.72 | 5.68 | 317 | 50 | 16.02 | 33.73 | 5.66 | 24.79 | 317 | 0.16 |
| 66 | 16.00 | 33.71 | 5.66 | 318 | 75 | 15.86 | 33.72 | 5.66 | 24.82 | 314 | 0.24 |
| 76 | 15.86 | 33.72 | 5.66 | 314 | 100 | 12.34 | 33.48 | 5.28 | 25.36 | 262 | 0.31 |
| 89 | 13.28 | 33.49 | 5.43 | 279 | 150 | 9.83 | 33.75 | 3.50 | 26.03 | 199 | 0.43 |
| 100 | 12.34 | 33.48 | 5.28 | 262 | 200 | 9.40 | 34.10 | 2.33 | 26.36 | 167 | 0.52 |
| 113 | 11.22 | 33.48 | 4.74 | 243 | 250 | 8.68 | 34.17 | 1.93 | 26.54 | 150 | 0.60 |
| 141 | 9.96 | 33.68 | 3.72 | 206 | 300 | 7.96 | 34.22 | 1.53 | 26.69 | 136 | 0.68 |
| 168 | 9.66 | 33.91 | 2.86 | 185 | 400 | 7.27 | 34.34 | 0.59 | 26.89 | 117 | 0.81 |
| 219 | 9.20 | 34.15 | 2.10 | 159 | 500 | 6.49 | 34.36 | 0.33 | 27.01 | 106 | 0.92 |
| 282 | 8.13 | 34.18 | 1.73 | 141 | 600 | 5.90 | 34.40 | 0.27 | 27.11 | 96 | 1.03 |
| 390 | 7.38 | 34.34 | 0.66 | 119 | | | | | | | |
| 520 | 6.30 | 34.36 | 0.31 | 104 | | | | | | | |
| 657 | 5.69 | 34.44 | 0.27 | 90 | | | | | | | |

127.40

SPENCER F. BAIRD; February 14, 1956; 1949 GCT; 26°43.5'N, 114°29.5'W; sounding, 1600 fm; wind, 360°, force 3; weather, cloudy; sea, moderate; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.86 | 33.80 | 5.52 | 308 | 0 | 15.86 | 33.80 | 5.52 | 24.88 | 308 | 0.00 |
| 10 | 15.84 | 33.80 | 5.75 | 308 | 10 | 15.84 | 33.80 | 5.75 | 24.88 | 308 | 0.03 |
| 30 | 15.74 | 33.82 | 5.89 | 304 | 20 | 15.81 | 33.82 | 5.81 | 24.90 | 306 | 0.06 |
| 45 | 15.20 | 33.78 | 5.69 | 296 | 30 | 15.74 | 33.82 | 5.89 | 24.92 | 304 | 0.09 |
| 55 | 12.57 | 33.54 | 5.07 | 261 | 50 | 13.43 | 33.60 | 5.26 | 25.25 | 273 | 0.15 |
| 65 | 11.42 | 33.56 | 4.40 | 240 | 75 | 10.79 | 33.60 | 4.23 | 25.75 | 225 | 0.21 |
| 75 | 10.79 | 33.60 | 4.23 | 225 | 100 | 10.04 | 33.78 | 3.35 | 26.01 | 201 | 0.27 |
| 84 | 10.45 | 33.66 | 3.94 | 216 | 150 | 10.47 | 34.33 | 1.50 | 26.36 | 167 | 0.36 |
| 100 | 10.04 | 33.78 | 3.35 | 201 | 200 | 9.74 | 34.35 | 1.21 | 26.51 | 153 | 0.44 |
| 110 | 9.99 | 33.96 | 3.18 | 185 | 250 | 9.50 | 34.49 | 0.62 | 26.66 | 139 | 0.51 |
| 134 | 10.58 | 34.22 | 1.71 | 176 | 300 | 9.18 | 34.54 | 0.41 | 26.75 | 130 | 0.58 |
| 160 | 10.32 | 34.34 | 1.40 | 163 | 400 | 7.87 | 34.46 | 0.26 | 26.89 | 117 | 0.71 |
| 212 | 9.56 | 34.37 | 1.11 | 148 | 500 | 6.99 | 34.47 | 0.27 | 27.03 | 104 | 0.83 |
| 272 | 9.50 | 34.55 | 0.61 | 134 | 600 | 6.36 | 34.48 | 0.25 | 27.12 | 95 | 0.93 |
| 380 | 8.06 | 34.46 | 0.24 | 120 | | | | | | | |
| 504 | 6.98 | 34.47 | 0.27 | 103 | | | | | | | |
| 635 | 6.11 | 34.48 | 0.23 | 92 | | | | | | | |

127.50

SPENCER F. BAIRD; February 14, 1956; 1452 GCT; 26°22.5'N, 115°07'W; sounding, 1000 fm; wind, 330°, force 3; weather, overcast; sea, moderate; wire angle, 20°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.30 | 33.80 | 6.05 | 296 | 0 | 15.30 | 33.80 | 6.05 | 25.01 | 296 | 0.00 |
| 9 | 15.25 | 33.79 | 6.06 | 296 | 10 | 15.22 | 33.79 | 6.06 | 25.01 | 296 | 0.03 |
| 29 | 14.80 | 33.79 | 5.99 | 287 | 20 | 15.22 | 33.79 | 6.06 | 25.01 | 296 | 0.06 |
| 42 | 13.92 | 33.73 | 5.16 | 273 | 30 | 14.78 | 33.79 | 5.97 | 25.11 | 286 | 0.09 |
| 58 | 12.37 | 33.73 | 3.64 | 244 | 50 | 13.14 | 33.68 | 4.50 | 25.36 | 262 | 0.14 |
| 66 | 12.06 | 33.88 | 3.14 | 227 | 75 | 11.96 | 33.91 | 2.61 | 25.78 | 223 | 0.20 |
| 75 | 11.96 | 33.91 | 2.61 | 223 | 100 | 10.46 | 33.98 | 2.48 | 26.09 | 193 | 0.26 |
| 89 | 10.79 | 33.87 | 2.55 | 206 | 150 | 10.00 | 34.30 | 1.50 | 26.43 | 161 | 0.35 |
| 99 | 10.44 | 33.97 | 2.50 | 193 | 200 | 9.84 | 34.46 | 0.83 | 26.58 | 146 | 0.42 |
| 113 | 10.90 | 34.11 | 2.04 | 190 | 250 | 9.59 | 34.51 | 0.56 | 26.66 | 139 | 0.50 |
| 142 | 10.12 | 34.25 | 1.72 | 167 | 300 | 9.08 | 34.52 | 0.46 | 26.75 | 130 | 0.57 |
| 168 | 9.96 | 34.34 | 1.37 | 158 | 400 | 7.87 | 34.49 | 0.39 | 26.91 | 115 | 0.69 |
| 222 | 9.76 | 34.49 | 0.65 | 143 | 500 | 6.94 | 34.49 | 0.22 | 27.05 | 102 | 0.81 |
| 288 | 9.22 | 34.52 | 0.48 | 132 | 600 | 6.11 | 34.48 | 0.25 | 27.16 | 92 | 0.91 |
| 398 | 7.92 | 34.49 | 0.39 | 115 | | | | | | | |
| 528 | 6.68 | 34.49 | 0.19 | 99 | | | | | | | |
| 663 | 5.52 | 34.47 | 0.32 | 86 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|--------------------------------|--------------|----|---|----------------|------------|--------------------------------|------------|
| Z | T | S | O ₂ | δT | Z | T | S | O ₂ | σ_t | δT | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{cm}^3/\text{g}$ | dyn. m |

SPENCER F. BAIRD; February 14, 1956; 1151 GCT; 26°11.5'N, 115°28'W; sounding, 2000 fm; wind, 320°, force 3; weather, overcast; sea, moderate; wire angle, 25°.

127.55

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.92 | 33.82 | 5.93 | 287 | 0 | 14.92 | 33.82 | 5.93 | 25.10 | 287 | 0.00 |
| 9 | 14.91 | 33.83 | 6.08 | 286 | 10 | 14.89 | 33.83 | 6.08 | 25.11 | 286 | 0.03 |
| 27 | 14.60 | 33.79 | 6.09 | 283 | 20 | 14.78 | 33.81 | 6.09 | 25.13 | 284 | 0.06 |
| 40 | 13.65 | 33.76 | 5.88 | 266 | 30 | 14.49 | 33.78 | 6.09 | 25.16 | 281 | 0.09 |
| 49 | 12.44 | 33.59 | 5.16 | 256 | 50 | 12.32 | 33.57 | 5.01 | 25.44 | 255 | 0.14 |
| 57 | 12.03 | 33.54 | 4.69 | 252 | 75 | 11.59 | 33.77 | 3.35 | 25.73 | 227 | 0.20 |
| 66 | 11.96 | 33.69 | 4.02 | 239 | 100 | 10.81 | 33.92 | 2.70 | 25.98 | 203 | 0.25 |
| 75 | 11.59 | 33.77 | 3.35 | 227 | 150 | 10.74 | 34.38 | 1.10 | 26.36 | 167 | 0.35 |
| 88 | - | 33.84 | 3.19 | - | 200 | 10.34 | 34.51 | 0.81 | 26.53 | 151 | 0.43 |
| 95 | 10.84 | 33.89 | 2.88 | 205 | 250 | 9.59 | 34.50 | 0.76 | 26.65 | 140 | 0.50 |
| 117 | 10.80 | 34.15 | 1.99 | 185 | 300 | 9.00 | 34.51 | 0.70 | 26.76 | 129 | 0.57 |
| 136 | 10.78 | 34.31 | 1.40 | 173 | 400 | 7.95 | 34.47 | 0.59 | 26.89 | 117 | 0.70 |
| 179 | 10.65 | 34.52 | 0.87 | 155 | 500 | 6.92 | 34.44 | 0.42 | 27.00 | 107 | 0.81 |
| 231 | 9.83 | 34.49 | 0.78 | 144 | | | | | | | |
| 322 | 8.78 | 34.51 | 0.68 | 126 | | | | | | | |
| 437 | 7.55 | 34.45 | 0.53 | 113 | | | | | | | |
| 566 | 6.26 | 34.43 | 0.29 | 98 | | | | | | | |

SPENCER F. BAIRD; February 13, 1956; 1752 GCT; 26°19.5'N, 112°50'W; sounding, 230 fm; wind, 360°, force 2; weather, cloudy; sea, moderate; wire angle, 16°.

130.35

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.71 | 33.76 | 5.72 | 308 | 0 | 15.71 | 33.76 | 5.72 | 24.88 | 308 | 0.00 |
| 10 | 15.66 | 33.73 | 5.72 | 309 | 10 | 15.66 | 33.73 | 5.72 | 24.87 | 309 | 0.03 |
| 15 | 15.66 | 33.74 | 5.71 | 309 | 20 | 15.64 | 33.78 | 5.74 | 24.91 | 305 | 0.06 |
| 19 | 15.64 | 33.77 | 5.74 | 306 | 30 | 15.64 | 33.76 | 5.73 | 24.90 | 306 | 0.09 |
| 24 | 15.64 | 33.80 | 5.71 | 304 | 50 | 15.67 | 33.80 | 5.72 | 24.92 | 304 | 0.15 |
| 29 | 15.64 | 33.77 | 5.73 | 306 | 75 | 12.83 | 33.49 | 5.02 | 25.28 | 270 | 0.22 |
| 38 | 15.63 | 33.76 | 5.73 | 306 | 100 | 10.77 | 33.58 | 3.24 | 25.74 | 226 | 0.29 |
| 48 | 15.67 | 33.80 | 5.72 | 304 | 150 | 11.85 | 34.41 | 0.90 | 26.18 | 185 | 0.39 |
| 61 | 14.34 | 33.60 | 5.39 | 291 | 200 | 10.98 | 34.57 | 0.61 | 26.47 | 157 | 0.48 |
| 75 | 12.83 | 33.49 | 5.02 | 270 | 250 | 10.48 | 34.60 | 0.49 | 26.58 | 146 | 0.55 |
| 93 | 11.34 | 33.51 | 4.52 | 242 | 300 | 9.95 | 34.58 | 0.48 | 26.66 | 139 | 0.63 |
| 115 | 11.06 | 34.00 | 2.84 | 201 | | | | | | | |
| 150 | 11.85 | 34.41 | 0.90 | 185 | | | | | | | |
| 185 | 11.16 | 34.54 | 0.71 | 162 | | | | | | | |
| 231 | 10.70 | 34.61 | 0.50 | 149 | | | | | | | |
| 303 | 9.90 | 34.58 | 0.48 | 139 | | | | | | | |
| 380 | 9.38 | 34.57 | 0.27 | 130 | | | | | | | |

SPENCER F. BAIRD; February 13, 1956; 2030 GCT; 26°09'N, 114°08'W; sounding, 1100 fm; wind, 340°, force 2; weather, cloudy; sea, moderate; wire angle, 26°.

130.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 16.50 | 33.73 | 5.72 | 327 | 0 | 16.50 | 33.73 | 5.72 | 24.68 | 327 | 0.00 |
| 9 | 16.40 | 33.75 | 5.41 | 324 | 10 | 16.39 | 33.75 | 5.45 | 24.71 | 324 | 0.03 |
| 26 | 16.35 | 33.75 | 5.82 | 322 | 20 | 16.36 | 33.75 | 5.60 | 24.72 | 323 | 0.06 |
| 39 | 16.34 | 33.75 | 5.84 | 322 | 30 | 16.34 | 33.75 | 5.82 | 24.73 | 322 | 0.10 |
| 47 | 16.33 | 33.74 | 5.67 | 323 | 50 | 16.22 | 33.72 | 5.70 | 24.73 | 322 | 0.16 |
| 56 | 15.29 | 33.64 | 5.96 | 308 | 75 | 12.60 | 33.52 | 5.18 | 25.34 | 264 | 0.23 |
| 64 | 13.83 | 33.53 | 5.66 | 287 | 100 | 11.17 | 33.50 | 4.28 | 25.61 | 239 | 0.30 |
| 71 | 13.15 | 33.53 | 5.19 | 273 | 150 | 10.82 | 34.26 | 1.70 | 26.26 | 177 | 0.40 |
| 83 | 11.83 | 33.49 | 5.16 | 252 | 200 | 11.28 | 34.58 | 0.61 | 26.42 | 162 | 0.49 |
| 92 | 11.58 | 33.48 | 4.84 | 248 | 250 | 10.37 | 34.54 | 0.60 | 26.55 | 149 | 0.57 |
| 110 | 10.68 | 33.69 | 3.63 | 217 | 300 | 9.12 | 34.43 | 0.70 | 26.68 | 137 | 0.64 |
| 132 | 10.39 | 34.00 | 2.58 | 190 | 400 | 8.07 | 34.49 | 0.36 | 26.88 | 118 | 0.77 |
| 172 | 11.32 | 34.52 | 0.89 | 167 | 500 | 7.04 | 34.47 | 0.30 | 27.03 | 104 | 0.89 |
| 219 | 11.11 | 34.60 | 0.54 | 157 | | | | | | | |
| 305 | 9.01 | 34.43 | 0.70 | 136 | | | | | | | |
| 403 | 8.01 | 34.49 | 0.34 | 117 | | | | | | | |
| 511 | 6.91 | 34.47 | 0.29 | 103 | | | | | | | |

SIO
CCOFI
5602

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT | Z | T | S | O ₂ | σ_t | δT | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

130.50 SPENCER F. BAIRD; February 14, 1956; 0105 GCT; 25°49'N, 114°42'W; sounding, 1700 fm; wind, 330°, force 3; weather, partly cloudy; sea, moderate; wire angle, 17°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 16.86 | 33.83 | 5.58 | 328 | 0 | 16.86 | 33.83 | 5.58 | 24.67 | 328 | 0.00 |
| 10 | 16.82 | 33.86 | 5.58 | 325 | 10 | 16.82 | 33.86 | 5.58 | 24.70 | 325 | 0.03 |
| 23 | 16.80 | 33.82 | 5.62 | 327 | 20 | 16.80 | 33.83 | 5.62 | 24.69 | 326 | 0.06 |
| 53 | 16.72 | 33.83 | 5.64 | 325 | 30 | 16.79 | 33.82 | 5.63 | 24.69 | 326 | 0.10 |
| 62 | 16.31 | 33.76 | 5.68 | 321 | 50 | 16.73 | 33.83 | 5.63 | 24.70 | 325 | 0.16 |
| 71 | 16.20 | 33.77 | 5.67 | 318 | 75 | 16.11 | 33.76 | 5.67 | 24.80 | 316 | 0.24 |
| 85 | 14.89 | 33.60 | 5.63 | 303 | 100 | 12.68 | 33.52 | 4.88 | 25.33 | 265 | 0.32 |
| 104 | 12.33 | 33.54 | 4.69 | 257 | 150 | 11.87 | 34.15 | 1.95 | 25.98 | 204 | 0.43 |
| 125 | 12.08 | 33.94 | 2.66 | 223 | 200 | 11.41 | 34.48 | 0.99 | 26.31 | 172 | 0.53 |
| 153 | 11.82 | 34.19 | 1.86 | 200 | 250 | 10.16 | 34.45 | 0.81 | 26.52 | 152 | 0.61 |
| 203 | 11.39 | 34.48 | 0.95 | 172 | 300 | 9.18 | 34.44 | 0.68 | 26.68 | 137 | 0.69 |
| 277 | 9.52 | 34.44 | 0.76 | 143 | 400 | 8.05 | 34.45 | 0.37 | 26.86 | 120 | 0.82 |
| 378 | 8.28 | 34.45 | 0.42 | 124 | 500 | 6.97 | 34.46 | 0.26 | 27.03 | 104 | 0.94 |
| 511 | 6.84 | 34.46 | 0.23 | 103 | 600 | 6.13 | 34.46 | 0.30 | 27.13 | 94 | 1.04 |
| 688 | 5.50 | 34.46 | 0.36 | 87 | 700 | 5.40 | 34.46 | 0.36 | 27.23 | 85 | 1.14 |
| 912 | 4.38 | 34.51 | 0.46 | 70 | 800 | 4.90 | 34.48 | 0.41 | 27.30 | 78 | 1.23 |
| 1213 | 3.50 | 34.57 | 0.78 | 58 | 1000 | 3.96 | 34.54 | 0.56 | 27.45 | 64 | 1.38 |

130.60 SPENCER F. BAIRD; February 14, 1956; 0626 GCT; 25°29'N, 115°23'W; sounding, 1900 fm; wind, 320°, force 4; weather, missing; sea, moderate; wire angle, 12°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 16.48 | 33.77 | 5.60 | 325 | 0 | 16.48 | 33.77 | 5.60 | 24.71 | 325 | 0.00 |
| 10 | 16.48 | 33.71 | 5.69 | 328 | 10 | 16.48 | 33.71 | 5.69 | 24.67 | 328 | 0.03 |
| 25 | 16.48 | 33.71 | 5.74 | 328 | 20 | 16.48 | 33.71 | 5.71 | 24.67 | 328 | 0.06 |
| 54 | 16.45 | 33.64 | 5.74 | 333 | 30 | 16.46 | 33.69 | 5.74 | 24.66 | 329 | 0.10 |
| 63 | 16.43 | 33.71 | 5.67 | 326 | 50 | 16.45 | 33.65 | 5.74 | 24.63 | 332 | 0.16 |
| 71 | 16.30 | 33.70 | 5.64 | 325 | 75 | 15.60 | 33.64 | 5.63 | 24.82 | 314 | 0.24 |
| 86 | 13.34 | 33.48 | 5.47 | 280 | 100 | 11.91 | 33.45 | 4.96 | 25.43 | 256 | 0.32 |
| 104 | 11.54 | 33.47 | 4.71 | 248 | 150 | 10.46 | 34.01 | 2.72 | 26.12 | 190 | 0.43 |
| 128 | 10.66 | 33.69 | 3.52 | 218 | 200 | 10.17 | 34.30 | 1.60 | 26.40 | 164 | 0.52 |
| 155 | 10.41 | 34.03 | 2.42 | 188 | 250 | 9.67 | 34.44 | 0.98 | 26.60 | 145 | 0.60 |
| 207 | 10.12 | 34.33 | 1.47 | 160 | 300 | 9.07 | 34.46 | 0.64 | 26.71 | 134 | 0.67 |
| 283 | 9.24 | 34.46 | 0.69 | 137 | 400 | 7.56 | 34.43 | 0.38 | 26.91 | 115 | 0.80 |
| 384 | 7.76 | 34.43 | 0.43 | 117 | 500 | 6.72 | 34.42 | 0.21 | 27.03 | 104 | 0.92 |
| 522 | 6.58 | 34.42 | 0.20 | 102 | 600 | 6.09 | 34.42 | 0.21 | 27.11 | 96 | 1.02 |
| 705 | 5.33 | 34.44 | 0.24 | 86 | 700 | 5.40 | 34.44 | 0.24 | 27.21 | 87 | 1.12 |
| 931 | 4.29 | 34.52 | 0.53 | 69 | 800 | 4.75 | 34.48 | 0.40 | 27.31 | 77 | 1.21 |
| 1232 | 3.57 | 34.56 | 0.73 | 59 | 1000 | 4.04 | 34.54 | 0.62 | 27.43 | 66 | 1.37 |

133.30 SPENCER F. BAIRD; February 13, 1956; 0727, 0743 GCT; 25°55.5'N, 113°08'W; sounding, 100 fm; wind, 360°, force 2; weather, partly cloudy; sea, moderate; wire angle, 02°, 04°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|---------|---------|--------|---------|-------|--------|
| 0 | 14.44 | 33.69 | 6.00 | 288 | 0 | 14.44 | 33.69 | 6.00 | 25.09 | 288 | 0.00 |
| 10 | 14.34 | 33.69 | 5.79 | 285 | 10 | 14.34 | 33.69 | 5.79 | 25.12 | 285 | 0.03 |
| 15 | 14.18 | 33.73 | 5.75 | 278 | 20 | 14.16 | 33.73 | 5.80 | 25.20 | 278 | 0.06 |
| 20 | 14.16 | 33.73 | 5.80 | 278 | 30 | 14.05 | 33.76 | 5.80 | 25.24 | 274 | 0.08 |
| 25 | 14.14 | 33.74 | 5.79 | 276 | 50 | 13.79 | 33.76 | 4.75 | 25.30 | 268 | 0.14 |
| 30 | 14.05 | 33.76 | 5.80 | 274 | 75 | 11.60 | 33.68 | 3.06 | 25.66 | 234 | 0.20 |
| 35 | 13.94 | 33.74 | 5.66 | 273 | 100 | 11.41 | 34.02 | 2.18 | 25.95 | 206 | 0.26 |
| 44 | 13.84 | 33.75 | 5.51 | 271 | 150 | (11.52) | (34.14) | (1.83) | (26.03) | (199) | (0.36) |
| 54 | 13.72 | 33.77 | 4.47 | 267 | | | | | | | |
| 64 | 13.00 | 33.80 | 3.95 | 251 | | | | | | | |
| 77 | 11.52 | 33.68 | 2.97 | 232 | | | | | | | |
| 95 | 11.44 | 34.01 | 2.21 | 207 | | | | | | | |
| 114 | 11.60 | - | 1.93 | - | | | | | | | |
| 147 | 11.58 | 34.14 | 1.81 | 199 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

SPENCER F. BAIRD; February 13, 1956; 0219 GCT; 25°33'N, 113°45'W; sounding, 1660 fm; wind, 320°, force 2; weather, partly cloudy; sea, moderate; wire angle, 10°.

133.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 15.94 | 33.84 | 5.80 | 307 | 0 | 15.94 | 33.84 | 5.80 | 24.89 | 307 | 0.00 |
| 10 | 15.78 | 33.73 | 5.77 | 312 | 10 | 15.78 | 33.73 | 5.77 | 24.85 | 312 | 0.03 |
| 30 | 15.66 | 33.77 | 5.75 | 308 | 20 | 15.72 | 33.75 | 5.76 | 24.87 | 309 | 0.06 |
| 41 | 15.64 | 33.75 | 5.74 | 308 | 30 | 15.66 | 33.77 | 5.75 | 24.88 | 308 | 0.09 |
| 49 | 15.62 | 33.75 | 5.78 | 306 | 50 | 15.62 | 33.75 | 5.78 | 24.90 | 306 | 0.15 |
| 60 | 15.60 | 33.75 | 5.82 | 306 | 75 | 15.40 | 33.75 | 5.43 | 24.94 | 302 | 0.23 |
| 71 | 15.58 | 33.76 | 5.49 | 305 | 100 | 11.45 | 33.51 | 4.52 | 25.55 | 244 | 0.30 |
| 80 | 14.63 | 33.64 | 5.38 | 295 | 150 | 10.50 | 34.06 | 2.40 | 26.15 | 187 | 0.41 |
| 91 | 12.26 | 33.47 | 4.94 | 262 | 200 | 11.16 | 34.56 | 1.60 | 26.43 | 161 | 0.50 |
| 100 | 11.45 | 33.51 | 4.52 | 244 | 250 | 10.15 | 34.54 | 1.22 | 26.60 | 145 | 0.57 |
| 123 | 10.54 | 33.75 | 4.06 | 210 | 300 | 9.22 | 34.43 | 0.79 | 26.66 | 139 | 0.65 |
| 151 | 10.48 | 34.08 | 2.12 | 185 | 400 | 7.98 | 34.40 | 0.39 | 26.83 | 123 | 0.78 |
| 195 | 11.19 | 34.54 | 1.66 | 163 | 500 | 7.12 | 34.42 | 0.31 | 26.98 | 109 | 0.90 |
| 249 | 10.18 | 34.54 | 1.27 | 146 | 600 | (6.17) | (34.42) | | (27.09) | (98) | (1.01) |
| 347 | 8.48 | 34.39 | 0.48 | 131 | | | | | | | |
| 460 | 7.41 | 34.42 | 0.32 | 114 | | | | | | | |
| 582 | 6.34 | 34.42 | 0.26 | 100 | | | | | | | |

SPENCER F. BAIRD; February 12, 1956; 1705 GCT; 25°21'N, 112°46'W; sounding, 185 fm; wind, 330°, force 2; weather, cloudy; sea, moderate; wire angle, 03°.

137.30

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|---------|---------|--------|---------|-------|--------|
| 0 | 16.63 | 34.08 | 5.80 | 305 | 0 | 16.63 | 34.08 | 5.80 | 24.91 | 305 | 0.00 |
| 10 | 16.54 | 34.10 | 5.75 | 302 | 10 | 16.54 | 34.10 | 5.75 | 24.94 | 302 | 0.03 |
| 15 | 16.54 | 34.09 | 5.66 | 302 | 20 | 16.52 | 34.09 | 5.61 | 24.95 | 301 | 0.06 |
| 20 | 16.52 | 34.09 | 5.61 | 301 | 30 | 16.26 | 34.07 | 5.15 | 25.00 | 297 | 0.09 |
| 25 | 16.48 | 34.09 | 5.48 | 301 | 50 | 13.03 | 33.95 | 2.38 | 25.60 | 240 | 0.14 |
| 29 | 16.39 | 34.08 | 5.27 | 299 | 75 | 12.44 | 34.12 | 1.60 | 25.84 | 217 | 0.20 |
| 34 | 15.55 | 34.05 | 4.46 | 283 | 100 | 12.16 | 34.38 | 0.90 | 26.10 | 192 | 0.25 |
| 44 | 13.90 | 33.96 | 2.71 | 256 | 150 | 11.97 | 34.59 | 0.44 | 26.30 | 173 | 0.35 |
| 53 | 12.79 | 33.95 | 2.33 | 235 | 200 | 11.22 | 34.63 | 0.14 | 26.47 | 157 | 0.43 |
| 63 | 12.59 | 33.95 | 2.31 | 232 | 250 | 10.65 | 34.63 | 0.09 | 26.56 | 148 | 0.51 |
| 76 | 12.42 | 34.13 | 1.52 | 216 | 300 | (10.47) | (34.64) | (0.17) | (26.61) | (144) | (0.58) |
| 96 | 12.14 | 34.34 | 1.08 | 195 | | | | | | | |
| 119 | 12.24 | 34.54 | 0.44 | 183 | | | | | | | |
| 157 | 11.84 | 34.60 | 0.43 | 171 | | | | | | | |
| 196 | 11.27 | 34.63 | 0.15 | 158 | | | | | | | |
| 235 | 10.74 | 34.63 | 0.08 | 149 | | | | | | | |
| 294 | 10.50 | 34.64 | 0.14 | 144 | | | | | | | |

SPENCER F. BAIRD; February 12, 1956; 2142 GCT; 24°59.5'N, 113°24'W; sounding, 1200 fm; wind, 320°, force 2; weather, cloudy; sea, moderate; wire angle, 12°.

137.40

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.94 | 33.82 | 5.78 | 308 | 0 | 15.94 | 33.82 | 5.78 | 24.88 | 308 | 0.00 |
| 10 | 15.66 | 33.79 | 5.74 | 305 | 10 | 15.66 | 33.79 | 5.74 | 24.91 | 305 | 0.03 |
| 30 | 15.24 | 33.71 | 5.74 | 302 | 20 | 15.43 | 33.75 | 5.74 | 24.93 | 303 | 0.06 |
| 44 | 15.01 | 33.68 | 5.66 | 299 | 30 | 15.24 | 33.71 | 5.74 | 24.94 | 302 | 0.09 |
| 53 | 14.08 | 33.62a) | 5.37 | 285 | 50 | 14.59 | 33.64 | 5.51 | 25.04 | 293 | 0.15 |
| 62 | 12.85 | 33.58 | 4.70 | 264 | 75 | 11.90 | 33.66 | 4.30 | 25.58 | 241 | 0.22 |
| 71 | 11.93 | 33.56 | 4.39 | 248 | 100 | 12.41 | 34.22 | 1.25 | 25.92 | 209 | 0.27 |
| 81 | 11.86 | 33.77 | 3.04 | 232 | 150 | 10.97 | 34.37 | 1.16 | 26.31 | 172 | 0.37 |
| 95 | 12.45 | 34.20 | 1.33 | 211 | 200 | 10.95 | 34.60 | 0.50 | 26.49 | 155 | 0.45 |
| 104 | 12.36 | 34.23 | 1.15 | 207 | 250 | 10.44 | 34.59 | 0.37 | 26.58 | 147 | 0.53 |
| 127 | 11.84 | 34.38 | 0.99 | 187 | 300 | 9.69 | 34.56 | 0.29 | 26.68 | 137 | 0.60 |
| 154 | 10.90 | 34.37 | 1.17 | 171 | 400 | 8.21 | 34.50 | 0.18 | 26.87 | 119 | 0.74 |
| 204 | 10.97 | 34.60 | 0.47 | 154 | 500 | 7.20 | 34.45 | 0.20 | 26.98 | 109 | 0.86 |
| 264 | 10.26 | 34.58 | 0.35 | 144 | 600 | 6.26 | 34.44 | 0.17 | 27.10 | 97 | 0.96 |
| 369 | 8.60 | 34.52 | 0.17 | 123 | | | | | | | |
| 491 | 7.27 | 34.45 | 0.20 | 110 | | | | | | | |
| 619 | 6.11 | 34.44 | 0.15 | 95 | | | | | | | |

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

S10

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

140.40

SPENCER F. BAIRD; February 12, 1956; 0259 GCT; 24°29'N, 113°02'W; sounding, 700 fm; wind, 310°, force 2; weather, missing; sea, moderate; wire angle, 06°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 16.78 | 34.05 | 5.74 | 310 | 0 | 16.78 | 34.05 | 5.74 | 24.86 | 310 | 0.00 |
| 10 | 16.78 | 34.04 | 5.77 | 311 | 10 | 16.78 | 34.04 | 5.77 | 24.85 | 311 | 0.03 |
| 30 | 16.64 | 34.04 | 5.77 | 308 | 20 | 16.71 | 34.04 | 5.77 | 24.87 | 309 | 0.06 |
| 45 | 15.82 | 33.99 | 4.72 | 296 | 30 | 16.64 | 34.04 | 5.77 | 24.88 | 308 | 0.09 |
| 55 | 13.86 | 33.90 | 2.75 | 260 | 50 | 15.03 | 33.95 | 3.79 | 25.18 | 280 | 0.15 |
| 65 | 12.78 | 33.81 | 3.14 | 246 | 75 | 12.53 | 34.00 | 2.50 | 25.73 | 227 | 0.22 |
| 74 | 12.53 | 34.00 | 2.50 | 227 | 100 | 11.76 | 34.14 | 1.79 | 26.00 | 202 | 0.27 |
| 84 | 12.42 | 34.05 | 2.16 | 222 | 150 | 10.97 | 34.44 | 0.98 | 26.38 | 166 | 0.36 |
| 98 | 11.78 | 34.14 | 1.79 | 203 | 200 | 10.44 | 34.52 | 0.82 | 26.52 | 152 | 0.44 |
| 107 | 11.31 | 34.18 | 1.78 | 193 | 250 | 10.28 | 34.63 | 0.24 | 26.64 | 141 | 0.52 |
| 131 | 11.02 | 34.31 | 1.39 | 177 | 300 | 9.61 | 34.58 | 0.21 | 26.71 | 134 | 0.59 |
| 160 | 10.90 | 34.47 | 0.90 | 163 | 400 | 8.43 | 34.51 | 0.19 | 26.85 | 121 | 0.72 |
| 213 | 10.65 | 34.60 | 0.36 | 150 | 500 | 7.38 | 34.49 | 0.15 | 26.99 | 108 | 0.84 |
| 271 | 9.99 | 34.61 | 0.24 | 138 | 600 | 6.51 | 34.49 | 0.18 | 27.11 | 96 | 0.95 |
| 379 | 8.64 | 34.52 | 0.19 | 124 | | | | | | | |
| 505 | 7.34 | 34.49 | 0.15 | 108 | | | | | | | |
| 636 | 6.18 | 34.49 | 0.18 | 92 | | | | | | | |

140.50

SPENCER F. BAIRD; February 11, 1956; 2133 GCT; 24°05'N, 113°45'W; sounding, 1700 fm; wind, 340°, force 2; weather, partly cloudy; sea, rough; wire angle, 17°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 18.92 | 34.13 | 5.28 | 354 | 0 | 18.92 | 34.13 | 5.28 | 24.40 | 354 | 0.00 |
| 9 | 18.78 | 34.10 | 5.37 | 353 | 10 | 18.78 | 34.10 | 5.37 | 24.41 | 353 | 0.04 |
| 23 | 18.71 | 34.09 | 5.38 | 352 | 20 | 18.74 | 34.09 | 5.38 | 24.42 | 352 | 0.07 |
| 51 | 18.60 | 34.13 | 5.34 | 347 | 30 | 18.67 | 34.10 | 5.38 | 24.44 | 350 | 0.11 |
| 60 | 18.53 | 34.08 | 5.45 | 348 | 50 | 18.62 | 34.13 | 5.34 | 24.47 | 347 | 0.18 |
| 69 | 17.02 | 33.78 | 5.61 | 336 | 75 | 16.00 | 33.71 | 5.42 | 24.78 | 318 | 0.26 |
| 83 | 14.77 | 33.65 | 5.07 | 296 | 100 | 12.40 | 33.68 | 3.73 | 25.51 | 248 | 0.33 |
| 102 | 12.37 | 33.70 | 3.64 | 246 | 150 | 11.67 | 34.30 | 1.48 | 26.13 | 189 | 0.44 |
| 125 | 12.38 | 34.16 | 1.89 | 213 | 200 | 10.52 | 34.44 | 1.08 | 26.45 | 159 | 0.53 |
| 154 | 11.54 | 34.31 | 1.43 | 186 | 250 | 9.66 | 34.45 | 0.78 | 26.61 | 144 | 0.61 |
| 202 | 10.48 | 34.44 | 1.04 | 159 | 300 | 8.98 | 34.46 | 0.58 | 26.72 | 133 | 0.68 |
| 274 | 9.35 | 34.45 | 0.66 | 140 | 400 | 7.89 | 34.46 | 0.35 | 26.89 | 117 | 0.81 |
| 374 | 8.17 | 34.47 | 0.39 | 121 | 500 | 6.91 | 34.43 | 0.23 | 27.01 | 106 | 0.93 |
| 506 | 6.84 | 34.43 | 0.23 | 105 | 600 | 6.17 | 34.46 | 0.20 | 27.12 | 95 | 1.03 |
| 684 | 5.65 | 34.48 | 0.20 | 87 | 700 | 5.61 | 34.48 | 0.20 | 27.22 | 86 | 1.13 |
| 905 | 4.59 | 34.52 | 0.33 | 72 | 800 | 5.11 | 34.50 | 0.25 | 27.29 | 79 | 1.22 |
| 1203 | 3.70 | 34.56 | 0.61 | 60 | 1000 | 4.20 | 34.54 | 0.46 | 27.42 | 67 | 1.38 |

140.60

SPENCER F. BAIRD; February 11, 1956; 1557, 1645 GCT; 23°46'N, 114°16'W; sounding, 1900 fm; wind, 360°, force 3; weather, partly cloudy; sea, rough; wire angle, 17°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.05 | 34.21 | 5.34 | 351 | 0 | 19.05 | 34.21 | 5.34 | 24.43 | 351 | 0.00 |
| 9 | 19.04 | 34.21 | 5.33 | 350 | 10 | 19.04 | 34.21 | 5.31 | 24.44 | 350 | 0.04 |
| 23 | 19.04 | 34.22 | 5.29 | 350 | 20 | 19.04 | 34.21 | 5.31 | 24.44 | 350 | 0.07 |
| 52 | 18.60 | 34.09 | 5.19 | 349 | 30 | 18.98 | 34.20 | 5.26 | 24.44 | 350 | 0.10 |
| 62 | 18.40 | 34.04 | 5.38 | 349 | 50 | 18.64 | 34.10 | 5.20 | 24.44 | 350 | 0.18 |
| 71 | 17.24 | 33.87 | 5.32 | 334 | 75 | 16.50 | 33.82 | 5.19 | 24.76 | 320 | 0.26 |
| 86 | 14.02 | 33.73 | 4.48 | 276 | 100 | 12.43 | 33.74 | 3.54 | 25.55 | 244 | 0.33 |
| 105 | 11.92 | 33.77 | 3.26 | 233 | 150 | 11.01 | 34.22 | 1.80 | 26.18 | 184 | 0.44 |
| 129 | 10.80 | 33.93 | 2.78 | 202 | 200 | 10.32 | 34.39 | 1.19 | 26.44 | 160 | 0.52 |
| 158 | 11.04 | 34.31 | 1.52 | 178 | 250 | 9.77 | 34.46 | 0.81 | 26.60 | 145 | 0.60 |
| 209 | 10.20 | 34.40 | 1.15 | 157 | 300 | 9.26 | 34.51 | 0.45 | 26.72 | 133 | 0.68 |
| 281 | 9.44 | 34.51 | 0.53 | 137 | 400 | 8.17 | 34.48 | 0.24 | 26.87 | 119 | 0.81 |
| 382 | 8.36 | 34.49 | 0.24 | 121 | 500 | 6.92 | 34.44 | 0.24 | 27.02 | 105 | 0.92 |
| 513 | 6.77 | 34.44 | 0.24 | 103 | 600 | 6.07 | 34.47 | 0.21 | 27.16 | 92 | 1.03 |
| 692 | 5.62 | 34.49 | 0.21 | 86 | 700 | 5.59 | 34.49 | 0.21 | 27.23 | 85 | 1.12 |
| 921 | 4.52 | 34.52 | 0.39 | 72 | 800 | 5.17 | 34.50 | 0.27 | 27.28 | 80 | 1.21 |
| | | | | | 1000 | 4.20 | 34.55 | 0.47 | 27.43 | 66 | 1.37 |
| 935 | 4.48 | 34.51 | 0.42 | 72 | | | | | | | |
| 1233 | 3.55 | 34.64 | 0.69 | 53 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|----------------|--------------|----|---|----------------|------------|----------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | 10^{-5} cm/g | m | °C | ‰ | ml/L | g/L | 10^{-5} cm/g | dyn. m |

SPENCER F. BAIRD; February 10, 1956; 1933 GCT; 24°11'N, 112°03'W; sounding, 108 fm; wind, 330°, force 3; weather, clear; sea, moderate; wire angle, 05°.

143.30

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|---------|---------|--------|---------|-------|--------|
| 0 | 15.94 | 33.89 | 5.60 | 303 | 0 | 15.94 | 33.89 | 5.60 | 24.93 | 303 | 0.00 |
| 10 | 15.74 | 33.91 | 5.62 | 297 | 10 | 15.74 | 33.91 | 5.62 | 25.00 | 297 | 0.03 |
| 15 | 15.69 | 33.88 | 5.55 | 298 | 20 | 15.58 | 33.86 | 5.54 | 25.00 | 297 | 0.06 |
| 20 | 15.58 | 33.86 | 5.54 | 297 | 30 | 14.48 | 33.61 | 5.46 | 25.04 | 293 | 0.09 |
| 25 | 14.82 | 33.69 | 5.51 | 295 | 50 | 15.09 | 33.98 | 4.48 | 25.20 | 278 | 0.15 |
| 30 | 14.48 | 33.61 | 5.46 | 293 | 75 | 13.74 | 34.18 | 2.20 | 25.63 | 237 | 0.21 |
| 35 | 15.05 | 33.86 | 4.90 | 287 | 100 | 12.82 | 34.53 | 0.78 | 26.09 | 193 | 0.27 |
| 45 | 15.35 | 33.97 | 4.79 | 285 | 150 | (12.22) | (34.66) | (0.25) | (26.30) | (173) | (0.36) |
| 54 | 14.72 | 33.99 | 4.00 | 270 | | | | | | | |
| 64 | 14.20 | 34.01 | 3.39 | 259 | | | | | | | |
| 78 | 13.60 | 34.25 | 1.75 | 229 | | | | | | | |
| 97 | 12.87 | 34.51 | 0.86 | 196 | | | | | | | |
| 116 | 12.61 | 34.78a) | 0.45 | - | | | | | | | |
| 147 | 12.26 | 34.65 | 0.26 | 175 | | | | | | | |

SPENCER F. BAIRD; February 10, 1956; 2201 GCT; 24°00'N, 112°22'W; sounding, 250+ fm; wind, 330°, force 3; weather, partly cloudy; sea, moderate; wire angle, 16°.

143.35

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|--------|-------|--------|-------|-----|------|
| 0 | 18.08 | 34.06 | 5.49 | 339 | 0 | 18.08 | 34.06 | 5.49 | 24.56 | 339 | 0.00 |
| 10 | 17.75 | 34.02 | 5.61 | 334 | 10 | 17.75 | 34.02 | 5.61 | 24.61 | 334 | 0.03 |
| 29 | 17.06 | 33.93 | 5.64 | 325 | 20 | 17.38 | 33.96 | 5.61 | 24.65 | 330 | 0.07 |
| 38 | 16.86 | 33.93 | 5.72 | 321 | 30 | 17.04 | 33.93 | 5.66 | 24.71 | 324 | 0.10 |
| 48 | 15.54 | 33.71 | 5.75 | 308 | 50 | 15.16 | 33.65 | 5.70 | 24.92 | 304 | 0.16 |
| 57 | 13.50 | 33.51b) | 5.40 | 281 | 75 | 12.41 | 33.50 | 5.09 | 25.36 | 262 | 0.23 |
| 66 | 12.81 | 33.49 | 5.11 | 270 | 100 | 11.24 | 33.92 | 2.78 | 25.91 | 210 | 0.29 |
| 74 | 12.44 | 33.49 | 5.09 | 263 | 150 | 10.94 | 34.33 | 1.60 | 26.29 | 174 | 0.39 |
| 84 | 11.83 | 33.62 | 4.20 | 243 | 200 | 10.94 | 34.59 | 0.65 | 26.49 | 155 | 0.47 |
| 92 | 11.44 | 33.75 | 3.26 | 226 | 250 | 10.39 | 34.65 | 0.27 | 26.64 | 141 | 0.55 |
| 110 | 11.18 | 34.00 | 2.46 | 203 | 300 | 9.87 | 34.64 | 0.21 | 26.71 | 134 | 0.62 |
| 133 | 11.08 | 34.19 | 1.79 | 187 | 400 | 8.79 | | 0.19 | | | |
| 150 | 10.94 | 34.33 | 1.60 | 174 | 500 | (7.76) | | (0.17) | | | |
| 185 | 11.00 | 34.53 | 0.83 | 160 | | | | | | | |
| 258 | 10.29 | 34.65 | 0.23 | 140 | | | | | | | |
| 354 | 9.26 | 34.61 | 0.20 | 126 | | | | | | | |
| 470 | 7.94 | 34.79r | 0.17 | - | | | | | | | |

SPENCER F. BAIRD; February 11, 1956; 0052 GCT; 23°51'N, 112°40'W; sounding, 1800 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 19°.

143.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 19.09 | 34.14 | 5.43 | 358 | 0 | 19.09 | 34.14 | 5.43 | 24.36 | 358 | 0.00 |
| 10 | 19.07 | 34.13 | 5.41 | 357 | 10 | 19.07 | 34.13 | 5.41 | 24.37 | 357 | 0.04 |
| 28 | 19.00 | 34.14 | 5.38 | 355 | 20 | 19.03 | 34.14 | 5.39 | 24.38 | 356 | 0.07 |
| 42 | 19.01 | 34.14 | 5.49 | 355 | 30 | 19.00 | 34.14 | 5.43 | 24.38 | 355 | 0.11 |
| 51 | 19.00 | 34.14 | 5.42 | 355 | 50 | 19.00 | 34.14 | 5.43 | 24.38 | 355 | 0.18 |
| 59 | 18.98 | 34.14 | 5.40 | 355 | 75 | 16.00 | 33.66 | 5.65 | 24.74 | 321 | 0.26 |
| 69 | 17.69 | 33.87 | 5.58 | 344 | 100 | 12.57 | 33.56 | 4.68 | 25.38 | 260 | 0.34 |
| 78 | 14.95 | 33.57 | 5.66 | 306 | 150 | 11.39 | 34.27 | 1.50 | 26.15 | 187 | 0.45 |
| 90 | 13.66 | 33.57 | 5.33 | 280 | 200 | 10.20 | 34.37 | 1.25 | 26.45 | 159 | 0.54 |
| 99 | 12.69 | 33.56 | 4.77 | 262 | 250 | 9.78 | 34.49 | 0.82 | 26.62 | 143 | 0.62 |
| 120 | 11.41 | 33.71 | 3.53 | 229 | 300 | 9.33 | 34.51 | 0.45 | 26.71 | 134 | 0.69 |
| 144 | 11.25 | 34.17 | 1.84 | 192 | 400 | 8.42 | 34.52 | 0.27 | 26.86 | 120 | 0.82 |
| 190 | 10.36 | 34.36 | 1.36 | 162 | 500 | 7.40 | 34.51 | 0.21 | 27.01 | 106 | 0.94 |
| 252 | 9.77 | 34.49 | 0.82 | 143 | 600 | (6.45) | (34.50) | (0.14) | (27.12) | (95) | (1.05) |
| 346 | 8.93 | 34.52 | 0.31 | 128 | | | | | | | |
| 465 | 7.76 | 34.52 | 0.23 | 110 | | | | | | | |
| 595 | 6.56 | 34.50 | 0.13 | 96 | | | | | | | |

- a) Loose bottle cap; value does not fall on property curve.
b) Possible evaporation; value falls on property curve.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|----------------------------------|--------------|----|---|----------------|------------|----------------------------------|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | $\frac{-5}{10} \frac{T_3}{cm/g}$ | m | °C | ‰ | ml/L | g/L | $\frac{-5}{10} \frac{T_3}{cm/g}$ | dyn. m | |

143.50 SPENCER F. BAIRD; February 11, 1956; 0608 GCT; 23°32'N, 113°18'W; sounding, 1400 fm; wind, 340°, force 5; weather, missing; sea, rough; wire angle, 15°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.98 | 34.13 | 5.34 | 355 | 0 | 18.98 | 34.13 | 5.34 | 24.39 | 355 | 0.00 |
| 10 | 18.98 | 34.11 | 5.43 | 357 | 10 | 18.98 | 34.11 | 5.43 | 24.37 | 357 | 0.04 |
| 29 | 18.98 | 34.13 | 5.37 | 355 | 20 | 18.98 | 34.12 | 5.42 | 24.38 | 356 | 0.07 |
| 43 | 18.98 | 34.10 | 5.38 | 358 | 30 | 18.98 | 34.13 | 5.37 | 24.38 | 356 | 0.11 |
| 52 | 18.98 | 34.14 | 5.33 | 355 | 50 | 18.98 | 34.13 | 5.36 | 24.39 | 355 | 0.18 |
| 61 | 18.00 | 33.96 | 5.53 | 345 | 75 | 15.02 | 33.60 | 5.43 | 24.90 | 306 | 0.26 |
| 71 | 15.67 | 33.64 | 5.65 | 316 | 100 | 13.57 | 33.92 | 3.10 | 25.47 | 252 | 0.33 |
| 80 | 14.48 | 33.62 | 4.99 | 293 | 150 | 11.67 | 34.36 | 1.37 | 26.18 | 185 | 0.44 |
| 93 | 13.79 | 33.75 | 3.96 | 269 | 200 | 11.24 | 34.60 | 0.42 | 26.44 | 160 | 0.53 |
| 102 | 13.50 | 33.95 | 3.01 | 249 | 250 | 10.73 | 34.63 | 0.22 | 26.56 | 148 | 0.61 |
| 126 | 12.19 | 34.17 | 1.83 | 208 | 300 | 10.11 | 34.63 | 0.20 | 26.67 | 138 | 0.68 |
| 153 | 11.62 | 34.38 | 1.31 | 183 | 400 | 8.79 | 34.58 | 0.22 | 26.85 | 121 | 0.82 |
| 203 | 11.20 | 34.61 | 0.39 | 158 | 500 | 7.60 | 34.51 | 0.17 | 26.96 | 110 | 0.94 |
| 263 | 10.56 | 34.63 | 0.19 | 146 | 600 | 6.63 | 34.51 | 0.16 | 27.10 | 97 | 1.05 |
| 371 | 9.18 | 34.60 | 0.23 | 126 | | | | | | | |
| 495 | 7.62 | 34.51 | 0.17 | 110 | | | | | | | |
| 628 | 6.38 | 34.52 | 0.16 | 93 | | | | | | | |

143.60 SPENCER F. BAIRD; February 11, 1956; 1054 GCT; 23°12.5'N, 113°56'W; sounding, 2000+ fm; wind, 350°, force 5; weather, missing; sea, rough; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|--------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 19.51 | 34.35 | 5.39 | 352 | 0 | 19.51 | 34.35 | 5.39 | 24.42 | 352 | 0.00 |
| 10 | 19.52 | 34.29 | 5.40 | 356 | 10 | 19.52 | 34.29 | 5.40 | 24.38 | 356 | 0.04 |
| 30 | 19.49 | 34.27 | 5.33 | 357 | 20 | 19.50 | 34.28 | 5.37 | 24.37 | 357 | 0.07 |
| 45 | 18.77 | 34.14 | 5.35 | 349 | 30 | 19.49 | 34.27 | 5.33 | 24.37 | 357 | 0.11 |
| 54 | 18.68 | 34.17u | 5.38 | - | 50 | 18.70 | 34.12 | 5.37 | 24.45 | 349 | 0.18 |
| 63 | 18.54 | 34.08 | 5.43 | 348 | 75 | 15.80 | 33.64 | 5.63 | 24.76 | 319 | 0.26 |
| 73 | 15.99 | 33.65 | 5.64 | 321 | 100 | 13.25 | 33.52 | 4.90 | 25.22 | 276 | 0.34 |
| 83 | 14.84 | 33.57 | 5.51 | 304 | 150 | 10.77 | 33.96 | 2.90 | 26.03 | 199 | 0.46 |
| 98 | 13.41 | 33.53 | 4.99 | 279 | 200 | 10.61 | 34.37 | 1.22 | 26.36 | 167 | 0.55 |
| 107 | 12.62 | 33.52 | 4.56 | 265 | 250 | 10.14 | 34.50 | 0.58 | 26.55 | 149 | 0.63 |
| 131 | 11.29 | 33.75 | 3.64 | 223 | 300 | 9.44 | 34.54 | 0.40 | 26.71 | 134 | 0.70 |
| 159 | 10.62 | 34.06 | 2.39 | 189 | 400 | 8.20 | 34.51 | 0.22 | 26.88 | 118 | 0.84 |
| 211 | 10.61 | 34.43 | 0.95 | 162 | 500 | 6.98 | 34.48 | 0.21 | 27.04 | 103 | 0.95 |
| 271 | 9.80 | 34.52 | 0.48 | 142 | 600 | 6.33 | 34.52 | 0.20 | 27.16 | 92 | 1.06 |
| 380 | 8.42 | 34.52 | 0.23 | 120 | | | | | | | |
| 505 | 6.93 | 34.48 | 0.21 | 102 | | | | | | | |
| 637 | 6.17 | 34.54 | 0.19 | 88 | | | | | | | |

147.25 SPENCER F. BAIRD; February 9, 1956; 0915 GCT; 23°46.5'N, 111°22'W; sounding, 186 fm; wind, 330°, force 4; weather, clear; sea, rough; wire angle, 22°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 16.86 | 34.06 | 5.58 | 311 | 0 | 16.86 | 34.06 | 5.58 | 24.85 | 311 | 0.00 |
| 10 | 16.86 | 34.05 | 5.49 | 312 | 10 | 16.86 | 34.05 | 5.49 | 24.84 | 312 | 0.03 |
| 14 | 16.87 | 34.04 | 5.55 | 313 | 20 | 16.88 | 34.05 | 5.53 | 24.84 | 312 | 0.06 |
| 18 | 16.88 | 34.05 | 5.53 | 313 | 30 | 16.90 | 34.10 | 5.45 | 24.87 | 309 | 0.09 |
| 23 | 16.88 | 34.06 | 5.62 | 312 | 50 | 13.67 | 33.79 | 3.86 | 25.34 | 264 | 0.15 |
| 28 | 16.90 | 34.09 | 5.54 | 310 | 75 | 13.43 | 34.37 | 1.50 | 25.84 | 217 | 0.21 |
| 32 | 16.90 | 34.10 | 5.45 | 309 | 100 | 13.02 | 34.49 | 0.97 | 26.02 | 200 | 0.26 |
| 41 | 14.26 | 33.77 | 4.40 | 297 | 150 | 12.17 | 34.69 | 0.44 | 26.33 | 170 | 0.36 |
| 50 | 13.67 | 33.79 | 3.86 | 264 | 200 | 11.18 | 34.71 | 0.13 | 26.54 | 150 | 0.44 |
| 59 | 13.50 | 33.84 | 3.24 | 257 | 250 | 10.47 | 34.69 | 0.11 | 26.65 | 140 | 0.51 |
| 73 | 13.48 | 34.33 | 1.63 | 221 | | | | | | | |
| 90 | 13.18 | 34.46 | 1.12 | 204 | | | | | | | |
| 113 | 12.86 | 34.52 | 0.86 | 195 | | | | | | | |
| 148 | 12.20 | 34.68 | 0.44 | 171 | | | | | | | |
| 185 | 11.42 | 34.72 | 0.18 | 154 | | | | | | | |
| 223 | 10.76 | 34.69 | 0.11 | 145 | | | | | | | |
| 281 | 10.32 | 34.69 | 0.11 | 137 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-----------------------|--------------|----|---|----------------|------------|-----------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm/g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm/g | dyn. m |

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SPENCER F. BAIRD; February 9, 1956; 0308 GCT; 23°23'N, 111°58'W; sounding, 1625 fm; wind, 340°, force 5; weather, missing; sea, moderate; wire angle, 10°.

147.35

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.56 | 34.08 | 5.37 | 348 | 0 | 18.56 | 34.08 | 5.37 | 24.46 | 348 | 0.00 |
| 10 | 18.52 | 34.07 | 5.43 | 348 | 10 | 18.52 | 34.07 | 5.43 | 24.46 | 348 | 0.03 |
| 30 | 18.44 | 34.05 | 5.46 | 348 | 20 | 18.48 | 34.06 | 5.46 | 24.46 | 348 | 0.07 |
| 44 | 18.36 | 34.04 | 5.45 | 346 | 30 | 18.44 | 34.05 | 5.46 | 24.46 | 348 | 0.10 |
| 54 | 15.58 | 33.63 | 5.71 | 314 | 50 | 17.25 | 33.87 | 5.60 | 24.61 | 334 | 0.17 |
| 63 | 13.68 | 33.60 | 5.07 | 279 | 75 | 13.04 | 33.65 | 4.30 | 25.36 | 262 | 0.25 |
| 73 | 13.08 | 33.64 | 4.32 | 264 | 100 | 11.36 | 33.98 | 2.39 | 25.94 | 207 | 0.31 |
| 83 | 12.90 | 33.91 | 3.17 | 240 | 150 | 11.93 | 34.63 | 0.50 | 26.34 | 169 | 0.40 |
| 97 | 11.37 | 33.96 | 2.52 | 209 | 200 | 11.81 | 34.79 | 0.14 | 26.48 | 156 | 0.48 |
| 106 | 11.33 | 34.03 | 2.33 | 203 | 250 | 11.00 | 34.74 | 0.14 | 26.60 | 145 | 0.56 |
| 129 | 12.18 | 34.49 | 0.86 | 184 | 300 | 10.23 | 34.68 | 0.13 | 26.69 | 136 | 0.63 |
| 156 | 11.89 | 34.65 | 0.50 | 168 | 400 | 8.91 | 34.61 | 0.11 | 26.86 | 120 | 0.77 |
| 206 | 11.72 | 34.79 | 0.13 | 152 | 500 | 7.62 | 34.58 | 0.14 | 27.02 | 105 | 0.88 |
| 267 | 10.76 | 34.72 | 0.15 | 142 | 600 | 6.78 | 34.56 | 0.14 | 27.13 | 94 | 0.99 |
| 374 | 9.27 | 34.63 | 0.10 | 125 | | | | | | | |
| 498 | 7.64 | 34.58 | 0.14 | 105 | | | | | | | |
| 629 | 6.54 | 34.56 | 0.14 | 91 | | | | | | | |

SPENCER F. BAIRD; February 8, 1956; 2340 GCT; 23°14.5'N, 112°19'W; sounding, 1800+ fm; wind, 340°, force 2; weather, partly cloudy; sea, rough; wire angle, 16°.

147.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 19.32 | 34.23 | 5.48 | 356 | 0 | 19.32 | 34.23 | 5.48 | 24.38 | 356 | 0.00 |
| 10 | 19.12 | 34.24 | 5.45 | 351 | 10 | 19.12 | 34.24 | 5.45 | 24.43 | 351 | 0.04 |
| 28 | 19.02 | 34.24 | 5.43 | 348 | 20 | 19.06 | 34.24 | 5.43 | 24.45 | 349 | 0.07 |
| 38 | 18.95 | 34.20 | 5.48 | 350 | 30 | 19.00 | 34.23 | 5.45 | 24.46 | 348 | 0.10 |
| 47 | 18.50 | 34.09 | 5.48 | 347 | 50 | 18.41 | 34.09 | 5.49 | 24.49 | 345 | 0.17 |
| 57 | 18.23 | 34.08 | 5.49 | 342 | 75 | 14.92 | 33.71 | 4.88 | 25.02 | 295 | 0.25 |
| 66 | 17.52 | 33.95 | 5.10 | 354 | 100 | 13.20 | 33.95 | 3.15 | 25.56 | 243 | 0.32 |
| 75 | 14.92 | 33.71 | 4.88 | 295 | 150 | 12.15 | 34.47 | 1.13 | 26.16 | 186 | 0.43 |
| 84 | 14.10 | 33.86 | 3.85 | 268 | 200 | 11.17 | 34.60 | 0.61 | 26.45 | 159 | 0.52 |
| 93 | 13.70 | 33.95 | 3.32 | 253 | 250 | 10.67 | 34.66 | 0.41 | 26.60 | 145 | 0.59 |
| 115 | 11.58 | 33.95 | 2.74 | 214 | 300 | 9.98 | 34.62 | 0.29 | 26.68 | 137 | 0.67 |
| 141 | 12.30 | 34.45 | 1.36 | 190 | 400 | 8.64 | 34.60 | 0.25 | 26.88 | 118 | 0.80 |
| 184 | 11.32 | 34.52 | 0.74 | 167 | 500 | 7.56 | 34.58 | 0.28 | 27.04 | 103 | 0.92 |
| 236 | 10.86 | 34.67 | 0.46 | 148 | | | | | | | |
| 331 | 9.51 | 34.60 | 0.26 | 131 | | | | | | | |
| 442 | 8.18 | 34.60 | 0.25 | 111 | | | | | | | |
| 563 | 6.89 | 34.56 | 0.30 | 96 | | | | | | | |

SPENCER F. BAIRD; February 8, 1956; 0642 GCT; 23°24'N, 110°39'W; sounding, 130 fm; wind, 010°, force 4; weather, partly cloudy; sea, moderate; wire angle, 13°.

150.19

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|---------|---------|--------|---------|-------|--------|
| 0 | 16.84 | 34.18 | 5.36 | 302 | 0 | 16.84 | 34.18 | 5.36 | 24.94 | 302 | 0.00 |
| 10 | 16.84 | 34.19 | 5.41 | 302 | 10 | 16.84 | 34.19 | 5.41 | 24.94 | 302 | 0.03 |
| 15 | 16.82 | 34.23 | 5.30 | 298 | 20 | 16.84 | 34.27 | 5.21 | 25.01 | 295 | 0.06 |
| 20 | 16.84 | 34.27 | 5.21 | 295 | 30 | 16.82 | 34.27 | 5.16 | 25.02 | 295 | 0.09 |
| 25 | 16.86 | 34.29 | 5.17 | 295 | 50 | 16.11 | 34.22 | 4.43 | 25.15 | 282 | 0.15 |
| 30 | 16.82 | 34.27 | 5.16 | 295 | 75 | 13.64 | 34.20 | 2.12 | 25.66 | 234 | 0.21 |
| 35 | 16.80 | 34.26 | 5.10 | 296 | 100 | 13.07 | 34.57 | 0.89 | 26.07 | 195 | 0.27 |
| 44 | 16.40 | 34.24 | 4.75 | 288 | 150 | 12.38 | 34.71 | 0.28 | 26.31 | 172 | 0.36 |
| 53 | 15.93 | 34.22 | 4.31 | 279 | 200 | (11.77) | (34.74) | (0.19) | (26.45) | (159) | (0.44) |
| 63 | 14.48 | 34.20 | 2.91 | 251 | | | | | | | |
| 72 | 13.77 | 34.19 | 2.33 | 237 | | | | | | | |
| 90 | 13.28 | 34.43 | 1.30 | 210 | | | | | | | |
| 105 | 12.95 | 34.62 | 0.73 | 189 | | | | | | | |
| 131 | 12.63 | 34.70 | 0.37 | 178 | | | | | | | |
| 159 | 12.24 | 34.72 | 0.27 | 169 | | | | | | | |
| 196 | 11.81 | 34.74 | 0.19 | 160 | | | | | | | |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

150.25

SPENCER F. BAIRD; February 8, 1956; 1014 GCT; 23°13'N, 111°02'W; sounding, 600 fm; wind, 360°, force 3; weather, missing; sea, moderate; wire angle, 08°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.54 | 34.25 | 5.49 | 336 | 0 | 18.54 | 34.25 | 5.49 | 24.59 | 336 | 0.00 |
| 10 | 18.58 | 34.25 | 5.39 | 337 | 10 | 18.58 | 34.25 | 5.39 | 24.58 | 337 | 0.03 |
| 30 | 17.64 | 34.10 | 5.37 | 326 | 20 | 18.56 | 34.25 | 5.38 | 24.58 | 337 | 0.07 |
| 45 | 17.03 | 34.12 | 4.67 | 331 | 30 | 17.64 | 34.10 | 5.37 | 24.69 | 326 | 0.10 |
| 54 | 15.58 | 34.04 | 3.79 | 284 | 50 | 16.48 | 34.09 | 4.29 | 24.95 | 301 | 0.16 |
| 64 | 13.49 | 33.96 | 2.90 | 248 | 75 | 14.06 | 34.38 | 1.51 | 25.72 | 228 | 0.23 |
| 73 | 13.76 | 34.23 | 2.00 | 233 | 100 | 13.68 | 34.69 | 0.50 | 26.04 | 198 | 0.28 |
| 83 | 14.32 | 34.65 | 0.83 | 214 | 150 | 12.61 | 34.75 | 0.27 | 26.29 | 174 | 0.38 |
| 97 | 13.78 | 34.69 | 0.57 | 200 | 200 | 11.87 | 34.77 | 0.12 | 26.46 | 158 | 0.46 |
| 106 | 13.52 | 34.71 | 0.40 | 193 | 250 | 11.21 | 34.76 | 0.13 | 26.56 | 148 | 0.54 |
| 130 | 13.00 | 34.74 | 0.28 | 182 | 300 | 10.57 | 34.71 | 0.13 | 26.65 | 140 | 0.61 |
| 158 | 12.42 | 34.75 | 0.26 | 170 | 400 | 9.24 | 34.62 | 0.10 | 26.81 | 125 | 0.75 |
| 210 | 11.74 | 34.77 | 0.11 | 156 | 500 | 7.99 | 34.56 | 0.10 | 26.95 | 111 | 0.87 |
| 271 | 10.96 | 34.74 | 0.14 | 144 | 600 | 6.89 | 34.53 | 0.13 | 27.08 | 99 | 0.98 |
| 381 | 9.48 | 34.63 | 0.10 | 128 | | | | | | | |
| 505 | 7.91 | 34.56 | 0.11 | 110 | | | | | | | |
| 637 | 6.56 | 34.52 | 0.15 | 94 | | | | | | | |

150.30

SPENCER F. BAIRD; February 8, 1956; 1315 GCT; 23°05'N, 111°21'W; sounding, 1470 fm; wind, 350°, force 2; weather, missing; sea, moderate; wire angle, 10°.

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 19.03 | 34.31 | | 344 | 0 | 19.03 | 34.31 | | 24.50 | 344 | 0.00 |
| 10 | 19.02 | 34.31 | | 343 | 10 | 19.02 | 34.31 | | 24.51 | 343 | 0.03 |
| 30 | 19.02 | 34.32 | | 343 | 20 | 19.02 | 34.32 | | 24.51 | 343 | 0.07 |
| 44 | 19.04 | 34.33 | | 342 | 30 | 19.02 | 34.32 | | 24.51 | 343 | 0.10 |
| 53 | 16.68 | 34.23 | | 295 | 50 | 17.86 | 34.27 | | 24.76 | 319 | 0.17 |
| 63 | 16.07 | 34.49 | | 262 | 75 | 14.20 | 34.54 | | 25.81 | 220 | 0.24 |
| 72 | 14.67 | 34.50 | | 232 | 100 | 13.38 | 34.67 | | 26.08 | 194 | 0.29 |
| 82 | 13.80 | 34.60 | | 208 | 150 | 12.31 | 34.80 | | 26.40 | 164 | 0.38 |
| 97 | 13.46 | 34.67 | | 196 | 200 | 11.56 | 34.74 | | 26.50 | 154 | 0.46 |
| 105 | 13.26 | 34.68 | | 191 | 250 | 10.92 | 34.73 | | 26.60 | 145 | 0.54 |
| 129 | 12.81 | 34.78 | | 176 | 300 | 10.26 | 34.70 | | 26.69 | 136 | 0.61 |
| 158 | 12.14 | 34.79 | | 162 | 400 | 8.93 | 34.58 | | 26.83 | 123 | 0.74 |
| 207 | 11.44 | 34.74 | | 153 | 500 | 7.62 | 34.52 | | 26.96 | 110 | 0.86 |
| 267 | 10.69 | 34.72 | | 142 | 600 | 6.70 | 34.53 | | 27.11 | 96 | 0.97 |
| 376 | 9.22 | 34.61 | | 126 | | | | | | | |
| 500 | 7.62 | 34.52 | | 110 | | | | | | | |
| 632 | 6.40 | 34.54 | | 92 | | | | | | | |

150.40

SPENCER F. BAIRD; February 8, 1956; 1833 GCT; 22°40'N, 111°59'W; sounding, 2250 fm; wind, 200°, force 1; weather, partly cloudy; sea, rough; wire angle, 02°.

| | | | | | | | | | | | |
|------|-------|-------|-------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.58 | 34.35 | 5.32 | 354 | 0 | 19.58 | 34.35 | 5.32 | 24.40 | 354 | 0.00 |
| 10 | 19.50 | 34.34 | 4.94 | 353 | 10 | 19.50 | 34.34 | 4.94 | 24.41 | 353 | 0.04 |
| 25 | 19.48 | 34.34 | 5.41 | 352 | 20 | 19.48 | 34.34 | 5.30 | 24.42 | 352 | 0.07 |
| 55 | 19.44 | 34.34 | 5.20 | 351 | 30 | 19.45 | 34.34 | 5.21 | 24.42 | 352 | 0.11 |
| 66 | 17.00 | 33.96 | 5.11 | 321 | 50 | 19.45 | 34.34 | 5.21 | 24.42 | 352 | 0.18 |
| 74 | 14.94 | 33.75 | 4.10 | 293 | 75 | 14.69 | 33.76 | 3.89 | 25.10 | 287 | 0.26 |
| 89 | 13.42 | 33.95 | 2.92 | 248 | 100 | 13.58 | 34.24 | 2.31 | 25.70 | 230 | 0.32 |
| 109 | 13.73 | 34.49 | 1.77 | 214 | 150 | 12.47 | 34.56 | 0.95 | 26.18 | 184 | 0.43 |
| 133 | 13.22 | 34.59 | 0.95 | 197 | 200 | 10.67 | 34.54 | 1.03 | 26.50 | 154 | 0.51 |
| 161 | 11.80 | 34.54 | 0.99 | 174 | 250 | 10.18 | 34.60 | 0.91 | 26.63 | 142 | 0.59 |
| 214 | 10.52 | 34.54 | 1.03 | 152 | 300 | 9.76 | 34.62 | 0.69 | 26.71 | 134 | 0.66 |
| 290 | 9.84 | 34.62 | 0.74 | 135 | 400 | 8.52 | 34.56 | 0.16 | 26.87 | 119 | 0.79 |
| 394 | 8.60 | 34.56 | 0.16 | 120 | 500 | 7.46 | 34.54 | 0.28 | 27.02 | 105 | 0.91 |
| 533 | 7.18 | 34.54 | 0.29 | 102 | 600 | 6.51 | 34.54 | 0.32 | 27.16 | 92 | 1.01 |
| 719 | 5.42 | 34.56 | 0.34 | 78 | 700 | 5.60 | 34.56 | 0.34 | 27.28 | 80 | 1.10 |
| 951 | 4.41 | - | - | - | 800 | 4.98 | 34.57 | | 27.36 | 73 | 1.19 |
| 1257 | 3.53 | 34.60 | 0.22u | 56 | 1000 | 4.27 | 34.58 | | 27.45 | 64 | 1.34 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|--|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD | |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m | |

SPENCER F. BAIRD; February 8, 1956; 0134 GCT; 22°55'N, 110°07'W; sounding, 340 fm; wind, 320°, force 3; weather, partly cloudy; sea, moderate; wire angle, 12°.

153.16

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|-------|--------|
| 0 | 19.46 | 34.97 | 4.94 | 306 | 0 | 19.46 | 34.97 | 4.94 | 24.90 | 306 | 0.00 |
| 9 | 19.50 | 34.96 | 5.03 | 308 | 10 | 19.50 | 34.96 | 5.03 | 24.88 | 308 | 0.03 |
| 30 | 19.44 | 34.97 | 4.90 | 306 | 20 | 19.48 | 34.97 | 5.00 | 24.89 | 307 | 0.06 |
| 39 | 18.94 | 34.85 | 4.84 | 302 | 30 | 19.44 | 34.97 | 4.90 | 24.90 | 306 | 0.09 |
| 49 | 17.80 | 34.72 | 3.50 | 284 | 50 | 17.61 | 34.71 | 3.31 | 25.18 | 280 | 0.15 |
| 58 | 16.50 | 34.66 | 2.33 | 260 | 75 | 14.49 | 34.70 | 0.72 | 25.87 | 214 | 0.21 |
| 68 | 15.10 | 34.65 | 1.14 | 230 | 100 | 13.63 | 34.78 | 0.20 | 26.12 | 190 | 0.26 |
| 78 | 14.36 | 34.70 | 0.64 | 211 | 150 | 12.68 | 34.82 | 0.20 | 26.34 | 169 | 0.36 |
| 88 | 14.02 | 34.70 | 0.44 | 204 | 200 | 11.83 | 34.81 | 0.14 | 26.49 | 155 | 0.44 |
| 98 | 13.70 | 34.78 | 0.23 | 192 | 250 | 11.27 | 34.79 | 0.12 | 26.58 | 147 | 0.51 |
| 116 | 13.32 | 34.79 | 0.11 | 184 | 300 | 10.78 | 34.76 | 0.12 | 26.65 | 140 | 0.59 |
| 141 | 12.92 | 34.81 | 0.21 | 174 | 400 | 9.44 | 34.64 | 0.14 | 26.79 | 127 | 0.73 |
| 159 | 12.44 | 34.83 | 0.15 | 165 | 500 | (7.82) | (34.58) | (0.10) | (26.99) | (108) | (0.85) |
| 196 | 11.88 | 34.81 | 0.14 | 156 | | | | | | | |
| 272 | 11.07 | 34.78 | 0.11 | 143 | | | | | | | |
| 372 | 9.80 | 34.67 | 0.14 | 131 | | | | | | | |
| 487 | 8.02 | 34.58 | 0.11 | 110 | | | | | | | |

SPENCER F. BAIRD; February 7, 1956; 2234 GCT; 22°48'N, 110°25'W; sounding, 730 fm; wind, 310°, force 3; weather, partly cloudy; sea, moderate; wire angle, 15°.

153.20

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 20.28 | 34.82 | 5.38 | 337 | 0 | 20.28 | 34.82 | 5.38 | 24.58 | 337 | 0.00 |
| 10 | 20.26 | 34.84 | 5.25 | 336 | 10 | 20.26 | 34.84 | 5.25 | 24.59 | 336 | 0.03 |
| 29 | 20.26 | 34.85 | 5.18 | 336 | 20 | 20.26 | 34.85 | 5.18 | 24.59 | 336 | 0.07 |
| 43 | 20.22 | 34.86 | 5.08 | 333 | 30 | 20.26 | 34.85 | 5.18 | 24.60 | 335 | 0.10 |
| 53 | 18.84 | 34.89 | 3.62 | 297 | 50 | 19.47 | 34.88 | 4.18 | 24.83 | 313 | 0.17 |
| 62 | 17.96 | 34.76 | 3.09 | 285 | 75 | 15.97 | 34.59 | 1.85 | 25.46 | 253 | 0.24 |
| 71 | 16.60 | 34.62 | 2.14 | 265 | 100 | 13.72 | 34.69 | 0.60 | 26.03 | 199 | 0.29 |
| 81 | 15.12 | 34.57 | 1.47 | 237 | 150 | 12.72 | 34.81 | 0.17 | 26.32 | 171 | 0.39 |
| 95 | 13.88 | 34.67a) | 0.74 | 204 | 200 | 11.92 | 34.82 | 0.10 | 26.48 | 156 | 0.47 |
| 105 | 13.58 | 34.71 | 0.45 | 194 | 250 | 11.29 | 34.77 | 0.14 | 26.56 | 148 | 0.55 |
| 128 | 13.12 | 34.79 | 0.21 | 180 | 300 | 10.76 | 34.72 | 0.16 | 26.63 | 142 | 0.62 |
| 154 | 12.61 | 34.81 | 0.16 | 169 | 400 | 9.51 | 34.64 | 0.12 | 26.78 | 128 | 0.76 |
| 204 | 11.88 | 34.82 | 0.11 | 155 | 500 | 7.60 | 34.55 | 0.11 | 27.00 | 107 | 0.88 |
| 263 | 11.16 | 34.75 | 0.15 | 147 | 600 | 6.71 | 34.54 | 0.14 | 27.12 | 95 | 0.99 |
| 370 | 10.02 | 34.67 | 0.13 | 134 | | | | | | | |
| 492 | 7.76 | 34.55 | 0.11 | 108 | | | | | | | |
| 623 | 6.56 | 34.54 | 0.15 | 93 | | | | | | | |

SPENCER F. BAIRD; February 7, 1956; 1736 GCT; 22°36'N, 111°57'W; sounding, 1600+ fm; wind, 360°, force 4; weather, overcast; sea, rough; wire angle, 12°.

153.30

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 20.82 | 34.83 | 5.16 | 350 | 0 | 20.82 | 34.83 | 5.16 | 24.43 | 350 | 0.00 |
| 10 | 20.80 | 34.81 | 5.13 | 352 | 10 | 20.80 | 34.81 | 5.13 | 24.42 | 352 | 0.04 |
| 29 | 20.80 | 34.84 | 5.16 | 349 | 20 | 20.80 | 34.83 | 5.14 | 24.44 | 350 | 0.07 |
| 39 | 20.80 | 34.88 | 5.15 | 346 | 30 | 20.80 | 34.84 | 5.16 | 24.45 | 349 | 0.11 |
| 49 | 20.76 | 34.91 | 5.07 | 343 | 50 | 20.73 | 34.91 | 5.04 | 24.51 | 343 | 0.17 |
| 58 | 19.49 | 34.88 | 3.91 | 313 | 75 | 15.68 | 34.55 | 1.63 | 25.49 | 250 | 0.25 |
| 68 | 17.52 | 34.78 | 2.65 | 274 | 100 | 13.87 | 34.63 | 0.86 | 25.95 | 206 | 0.31 |
| 78 | 15.03 | 34.49 | 1.32 | 241 | 150 | 12.39 | 34.75 | 0.27 | 26.34 | 169 | 0.40 |
| 88 | 14.48 | 34.54 | 1.10 | 226 | 200 | 11.79 | 34.75 | 0.14 | 26.46 | 158 | 0.48 |
| 98 | 13.91 | 34.63 | 0.89 | 207 | 250 | 11.05 | 34.74 | 0.14 | 26.58 | 146 | 0.56 |
| 121 | 12.97 | 34.67 | 0.56 | 186 | 300 | 10.37 | 34.69 | 0.12 | 26.67 | 138 | 0.63 |
| 150 | 12.39 | 34.75 | 0.27 | 169 | 400 | 9.05 | 34.62 | 0.12 | 26.84 | 122 | 0.77 |
| 196 | 11.82 | 34.75 | 0.15 | 159 | 500 | 7.63 | 34.56 | 0.13 | 27.01 | 106 | 0.89 |
| 251 | 11.02 | 34.74 | 0.13 | 146 | 600 | (6.78) | (34.54) | | (27.11) | (96) | (1.00) |
| 350 | 9.76 | 34.65 | 0.12 | 131 | | | | | | | |
| 463 | 8.10 | 34.58 | 0.13 | 121 | | | | | | | |
| 585 | 6.90 | 34.54 | 0.11 | 98 | | | | | | | |

a) Possible evaporation; value falls on property curve.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|------------------|--------------|----|---|----------------|------------|------------------|------------|
| Z | T | S | O ₂ | δT_{3-5} | Z | T | S | O ₂ | σ_t | δT_{3-5} | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

153.40 SPENCER F. BAIRD; February 7, 1956; 1220 GCT; 22°15'N, 111°34'W; sounding, 1805 fm; wind, 340°, force 3; weather, partly cloudy; sea, moderate; wire angle, 03°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 20.15 | 34.33 | 5.45 | 369 | 0 | 20.15 | 34.33 | 5.45 | 24.24 | 369 | 0.00 |
| 10 | 20.16 | 34.34 | 5.49 | 369 | 10 | 20.16 | 34.34 | 5.49 | 24.24 | 369 | 0.04 |
| 30 | 20.14 | 34.35 | 5.37 | 368 | 20 | 20.15 | 34.35 | 5.37 | 24.25 | 368 | 0.07 |
| 40 | 19.99 | - | 5.19 | - | 30 | 20.14 | 34.35 | 5.37 | 24.25 | 368 | 0.11 |
| 50 | 18.67 | 33.95 | 5.59 | 361 | 50 | 18.67 | 33.95 | 5.59 | 24.32 | 361 | 0.18 |
| 59 | 15.81 | - | 5.06 | - | 75 | 13.92 | 33.92 | 3.78 | 25.38 | 260 | 0.26 |
| 68 | 14.97 | 33.85 | 4.41 | 285 | 100 | 13.76 | 34.17 | 1.90 | 25.62 | 238 | 0.32 |
| 78 | 13.80 | - | 3.64 | - | 150 | 12.28 | 34.67 | 0.22 | 26.30 | 173 | 0.43 |
| 89 | 13.66 | 33.97 | 2.97 | 251 | 200 | 11.56 | 34.70 | 0.29 | 26.46 | 158 | 0.51 |
| 98 | 13.79 | 34.14 | 2.00 | 240 | 250 | 10.94 | 34.67 | 0.39 | 26.54 | 150 | 0.59 |
| 121 | 13.12 | 34.52 | 1.12 | 200 | 300 | 10.09 | 34.58 | 0.34 | 26.64 | 141 | 0.67 |
| 149 | 12.30 | - | 0.21 | - | 400 | 8.39 | 34.51 | 0.24 | 26.86 | 120 | 0.80 |
| 200 | 11.56 | 34.70 | 0.29 | 158 | 500 | 7.24 | 34.50 | 0.21 | 27.02 | 105 | 0.92 |
| 255 | 10.90 | 34.65 | 0.40 | 150 | 600 | (6.25) | (34.46) | (0.13) | (27.11) | (96) | (1.03) |
| 356 | 9.05 | 34.52 | 0.24 | 130 | | | | | | | |
| 470 | 7.54 | 34.51 | 0.23 | 108 | | | | | | | |
| 591 | 6.34 | 34.46 | 0.13 | 97 | | | | | | | |

153.50 SPENCER F. BAIRD; February 7, 1956; 0722 GCT; 21°50'N, 112°14'W; sounding, 1700 fm; wind, 330°, force 3; weather, missing; sea, moderate; wire angle, 00°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 20.87 | 34.42 | 5.48 | 382 | 0 | 20.87 | 34.42 | 5.48 | 24.10 | 382 | 0.00 |
| 10 | 20.85 | 34.43 | 5.32 | 380 | 10 | 20.85 | 34.43 | 5.32 | 24.12 | 380 | 0.04 |
| 30 | 20.86 | 34.45 | 5.24 | 379 | 20 | 20.86 | 34.43 | 5.28 | 24.12 | 380 | 0.08 |
| 40 | 20.84 | 34.43 | 5.21 | 380 | 30 | 20.86 | 34.45 | 5.24 | 24.14 | 379 | 0.11 |
| 50 | 19.50 | 34.15 | 4.87 | 366 | 50 | 19.50 | 34.15 | 4.87 | 24.27 | 366 | 0.19 |
| 60 | 17.43 | 33.93 | 4.62 | 334 | 75 | 14.72 | 33.70 | 4.51 | 25.05 | 292 | 0.27 |
| 70 | 14.80 | 33.60 | 4.52 | 301 | 100 | 13.26 | 34.02 | 2.75 | 25.61 | 239 | 0.34 |
| 79 | 14.64 | 33.76 | 4.50 | 286 | 150 | 11.64 | 34.42 | 1.70 | 26.23 | 180 | 0.44 |
| 90 | 13.61 | 33.78 | 3.16 | 264 | 200 | 11.02 | 34.60 | 1.28 | 26.49 | 155 | 0.53 |
| 99 | 13.29 | 34.01 | 2.77 | 241 | 250 | 10.31 | 34.65 | 0.79 | 26.65 | 140 | 0.60 |
| 124 | 12.34 | 34.25 | 2.37 | 205 | 300 | 9.63 | 34.61 | 0.60 | 26.73 | 132 | 0.68 |
| 152 | 11.62 | 34.43 | 1.70 | 179 | 400 | 8.38 | 34.55 | 0.43 | 26.88 | 118 | 0.81 |
| 199 | 11.04 | 34.60 | 1.30 | 156 | 500 | 7.18 | 34.52 | 0.39 | 27.04 | 103 | 0.92 |
| 255 | 10.24 | 34.65 | 0.75 | 139 | 600 | (6.18) | (34.49) | (0.31) | (27.14) | (93) | (1.02) |
| 355 | 8.95 | 34.56 | 0.49 | 125 | | | | | | | |
| 470 | 7.50 | 34.53 | 0.40 | 107 | | | | | | | |
| 593 | 6.25 | 34.49 | 0.32 | 93 | | | | | | | |

153.60 SPENCER F. BAIRD; February 7, 1956; 0135 GCT; 21°26'N, 112°51'W; sounding, 1800 fm; wind, 330°, force 1; weather, partly cloudy; sea, moderate; wire angle, 10°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|------|---------|------|--------|
| 0 | 20.21 | 34.25 | 5.29 | 377 | 0 | 20.21 | 34.25 | 5.29 | 24.16 | 377 | 0.00 |
| 10 | 19.96 | 34.25 | 5.29 | 371 | 10 | 19.96 | 34.25 | 5.29 | 24.22 | 371 | 0.04 |
| 30 | 19.84 | 34.25 | 5.27 | 368 | 20 | 19.88 | 34.25 | 5.27 | 24.24 | 369 | 0.07 |
| 40 | 19.83 | 34.25 | 5.37 | 368 | 30 | 19.84 | 34.25 | 5.27 | 24.25 | 368 | 0.11 |
| 50 | 19.18 | 34.07 | 5.43 | 364 | 50 | 19.18 | 34.07 | 5.43 | 24.29 | 364 | 0.18 |
| 60 | 17.74 | 33.84 | 5.66 | 348 | 75 | 14.77 | 33.74 | 4.28 | 25.07 | 290 | 0.27 |
| 69 | 16.25 | 33.75 | 5.31 | 321 | 100 | 13.60 | 34.27 | 1.78 | 25.13 | 227 | 0.33 |
| 78 | 14.50 | 33.84 | 4.02 | 277 | 150 | 12.76 | 34.72 | 0.30 | 25.25 | 178 | 0.43 |
| 89 | 14.18 | 34.09 | 2.80 | 252 | 200 | 11.61 | 34.74 | 0.21 | 26.48 | 156 | 0.52 |
| 97 | 13.71 | 34.23 | 1.99 | 233 | 250 | 10.77 | 34.69 | 0.19 | 26.60 | 145 | 0.60 |
| 120 | 13.10 | 34.52 | 0.90 | 200 | 300 | 9.96 | 34.64 | 0.19 | 26.70 | 135 | 0.67 |
| 149 | 12.79 | 34.71 | 0.30 | 179 | 400 | 8.32 | 34.56 | 0.16 | 26.90 | 116 | 0.80 |
| 194 | 11.76 | 34.75 | 0.22 | 158 | 500 | 6.96 | 34.52 | 0.13 | 27.07 | 100 | 0.91 |
| 250 | 10.77 | 34.69 | 0.19 | 145 | 600 | (6.28) | (34.52) | | (27.16) | (91) | (1.01) |
| 350 | 9.12 | 34.60 | 0.19 | 125 | | | | | | | |
| 464 | 7.30 | 34.52 | 0.12 | 105 | | | | | | | |
| 587 | 6.34 | 34.52 | 0.15 | 92 | | | | | | | |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m |

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SPENCER F. BAIRD; February 5, 1956; 2250 GCT; 22°14'N, 109°59'W; sounding, 2050 fm; wind, calm; weather, clear; sea, moderate; wire angle, 03°.

157.20

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|-------|-------|--|-------|-----|------|
| 0 | 22.05 | 34.96 | | 373 | 0 | 22.05 | 34.96 | | 24.20 | 373 | 0.00 |
| 10 | 21.66 | 34.88 | | 369 | 10 | 21.66 | 34.88 | | 24.24 | 369 | 0.04 |
| 30 | 21.62 | 35.05 | | 355 | 20 | 21.63 | 34.96 | | 24.30 | 363 | 0.07 |
| 45 | 21.60 | 34.90 | | 366 | 30 | 21.62 | 35.05 | | 24.39 | 355 | 0.11 |
| 55 | 21.54 | 34.88 | | 366 | 50 | 21.59 | 34.89 | | 24.27 | 366 | 0.18 |
| 64 | 20.43 | 34.88 | | 337 | 75 | 17.88 | 34.50 | | 24.93 | 303 | 0.27 |
| 74 | 18.41 | 34.58 | | 309 | 100 | 15.12 | 34.68 | | 25.72 | 228 | 0.33 |
| 83 | 15.48 | 34.22 | | 270 | 150 | 13.03 | 34.78 | | 26.24 | 179 | 0.43 |
| 98 | 15.45 | 34.70 | | 234 | 200 | 12.07 | 34.81 | | 26.45 | 159 | 0.52 |
| 107 | 14.52 | 34.65 | | 218 | 250 | 11.33 | 34.77 | | 26.55 | 149 | 0.60 |
| 131 | 13.58 | 34.78 | | 190 | 300 | 10.61 | 34.72 | | 26.64 | 141 | 0.67 |
| 158 | 12.80 | 34.78 | | 175 | 400 | 9.04 | 34.63 | | 26.85 | 121 | 0.81 |
| 211 | 11.92 | 34.81 | | 156 | 500 | 7.80 | 34.56 | | 26.99 | 108 | 0.93 |
| 274 | 11.01 | 34.74 | | 146 | 600 | 6.84 | 34.54 | | 27.10 | 97 | 1.04 |
| 381 | 9.32 | 34.65 | | 124 | | | | | | | |
| 508 | 7.72 | 34.56 | | 107 | | | | | | | |
| 639 | 6.43 | 34.53 | | 93 | | | | | | | |

SPENCER F. BAIRD; February 6, 1956; 0501 GCT; 21°52'N, 110°38'W; sounding, 1800 fm; wind, calm; weather, missing; sea, moderate; wire angle, 00°.

157.30

| | | | | | | | | | | | |
|-----|-------|-------|--|-----|-----|--------|---------|--|---------|------|--------|
| 0 | 22.10 | 34.67 | | 396 | 0 | 22.10 | 34.67 | | 23.96 | 396 | 0.00 |
| 10 | 22.10 | 34.63 | | 399 | 10 | 22.10 | 34.63 | | 23.93 | 399 | 0.04 |
| 30 | 21.38 | 34.52 | | 387 | 20 | 21.88 | 34.59 | | 23.96 | 396 | 0.08 |
| 40 | 20.36 | 34.49 | | 363 | 30 | 21.38 | 34.52 | | 24.05 | 387 | 0.12 |
| 50 | 18.05 | 34.05 | | 339 | 50 | 18.05 | 34.05 | | 24.56 | 339 | 0.19 |
| 60 | 15.91 | 33.92 | | 300 | 75 | 14.06 | 34.03 | | 25.45 | 254 | 0.27 |
| 69 | 14.66 | 34.03 | | 266 | 100 | 12.86 | 34.23 | | 25.84 | 217 | 0.33 |
| 79 | 13.81 | 34.03 | | 249 | 150 | 12.43 | 34.73 | | 26.31 | 172 | 0.42 |
| 88 | 13.47 | 34.15 | | 234 | 200 | 11.85 | 34.77 | | 26.46 | 158 | 0.51 |
| 98 | 12.86 | 34.22 | | 217 | 250 | 11.15 | 34.72 | | 26.55 | 149 | 0.58 |
| 121 | 12.99 | 34.63 | | 189 | 300 | 10.27 | 34.67 | | 26.67 | 138 | 0.66 |
| 151 | 12.40 | 34.73 | | 171 | 400 | 8.76 | 34.61 | | 26.88 | 118 | 0.79 |
| 198 | 11.86 | 34.77 | | 159 | 500 | 7.58 | 34.58 | | 27.03 | 104 | 0.91 |
| 255 | 11.04 | 34.72 | | 148 | 600 | (6.50) | (34.54) | | (27.14) | (93) | (1.01) |
| 356 | 9.36 | 34.63 | | 126 | | | | | | | |
| 474 | 7.84 | 34.59 | | 107 | | | | | | | |
| 595 | 6.59 | 34.54 | | 94 | | | | | | | |

SPENCER F. BAIRD; February 6, 1956; 1015 GCT; 21°32'N, 111°14'W; sounding, 1500+ fm; wind, 340°, force 2; weather, clear; sea, moderate; wire angle, 05°.

157.40

| | | | | | | | | | | | |
|-----|-------|--------|------|-----|-----|--------|---------|--------|---------|-------|--------|
| 0 | 20.17 | 34.37 | 5.42 | 368 | 0 | 20.17 | 34.37 | 5.42 | 24.25 | 368 | 0.00 |
| 10 | 20.16 | 34.37 | 5.29 | 367 | 10 | 20.16 | 34.37 | 5.29 | 24.26 | 367 | 0.04 |
| 30 | 20.14 | 34.35 | 5.19 | 368 | 20 | 20.16 | 34.37 | 5.24 | 24.26 | 367 | 0.07 |
| 40 | 20.17 | 34.37 | 5.58 | 367 | 30 | 20.14 | 34.35 | 5.19 | 24.25 | 368 | 0.11 |
| 50 | 20.14 | 34.35 | 5.33 | 368 | 50 | 20.14 | 34.35 | 5.33 | 24.25 | 368 | 0.18 |
| 60 | 18.36 | 34.00 | 5.53 | 350 | 75 | 15.68 | 34.07 | 3.80 | 25.12 | 285 | 0.27 |
| 70 | 16.25 | 33.98 | 4.58 | 304 | 100 | 11.68 | 33.96 | 2.62 | 25.87 | 214 | 0.33 |
| 80 | 15.08 | 34.15 | 2.79 | 267 | 150 | 11.42 | 34.44 | 1.07 | 26.28 | 175 | 0.43 |
| 89 | 13.56 | 34.15 | 2.14 | 236 | 200 | 10.85 | 34.62 | 0.53 | 26.52 | 152 | 0.51 |
| 98 | 11.77 | 33.96 | 2.64 | 216 | 250 | 10.58 | 34.68 | 0.12 | 26.62 | 143 | 0.59 |
| 121 | 11.36 | 34.18 | 1.91 | 193 | 300 | 9.79 | 34.62 | 0.11 | 26.71 | 134 | 0.66 |
| 150 | 11.42 | 34.44 | 1.07 | 175 | 400 | 8.30 | 34.57 | 0.14 | 26.91 | 115 | 0.79 |
| 197 | 10.88 | 34.60 | 0.57 | 153 | 500 | 7.38 | (34.59) | 0.16 | (27.07) | (100) | (0.90) |
| 254 | 10.55 | 34.68 | 0.11 | 142 | 600 | (6.48) | | (0.23) | | | |
| 353 | 8.82 | 34.56 | 0.15 | 123 | | | | | | | |
| 469 | 7.62 | 34.59 | 0.14 | 104 | | | | | | | |
| 592 | 6.53 | 34.47u | 0.22 | - | | | | | | | |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|---------------------------------|--------------|----|---|----------------|------------|---------------------------------|------------|
| Z | T | S | O ₂ | δT | Z | T | S | O ₂ | σ_t | δT | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{ cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{ cm}^3/\text{g}$ | dyn. m |

157.50 SPENCER F. BAIRD; February 6, 1956; 1524 GCT; 21°12'N, 111°53'W; sounding, 1680 fm; wind, calm; weather, partly cloudy; sea, moderate; wire angle, 00°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 20.61 | 34.49 | 5.27 | 370 | 0 | 20.61 | 34.49 | 5.27 | 24.23 | 370 | 0.00 |
| 10 | 20.60 | 34.49 | 5.34 | 369 | 10 | 20.60 | 34.49 | 5.34 | 24.24 | 369 | 0.04 |
| 30 | 20.60 | 34.49 | 5.26 | 369 | 20 | 20.60 | 34.49 | 5.30 | 24.24 | 369 | 0.07 |
| 40 | 20.02 | 34.40 | 5.27 | 362 | 30 | 20.60 | 34.49 | 5.26 | 24.24 | 369 | 0.11 |
| 51 | 14.88 | 33.86 | 4.34 | 284 | 50 | 15.51 | 33.89 | 4.64 | 25.03 | 294 | 0.18 |
| 59 | 14.14 | 33.93 | 3.39 | 263 | 75 | 13.52 | 34.08 | 2.51 | 25.60 | 240 | 0.24 |
| 70 | 13.62 | 34.04 | 2.68 | 247 | 100 | 12.80 | 34.29 | 1.54 | 25.90 | 211 | 0.30 |
| 79 | 13.44 | 34.11 | 2.34 | 236 | 150 | 11.57 | 34.50 | 0.89 | 26.30 | 173 | 0.40 |
| 88 | 13.16 | 34.20 | 1.83 | 224 | 200 | 10.83 | 34.61 | 0.54 | 26.52 | 152 | 0.48 |
| 98 | 12.87 | 34.28 | 1.57 | 213 | 250 | 10.28 | 34.65 | 0.44 | 26.65 | 140 | 0.56 |
| 123 | 12.13 | 34.36 | 1.30 | 193 | 300 | 9.59 | 34.62 | 0.31 | 26.74 | 131 | 0.63 |
| 153 | 11.50 | 34.52 | 0.82 | 170 | 400 | 8.22 | 34.56 | 0.29 | 26.92 | 114 | 0.75 |
| 199 | 10.84 | 34.61 | 0.54 | 153 | 500 | 7.22 | 34.55 | 0.37 | 27.06 | 101 | 0.86 |
| 254 | 10.22 | 34.65 | 0.42 | 139 | 600 | (6.39) | (34.52) | (0.40) | (27.14) | (93) | (0.97) |
| 355 | 8.75 | 34.58 | 0.23 | 120 | | | | | | | |
| 470 | 7.48 | 34.56 | 0.34 | 104 | | | | | | | |
| 593 | 6.44 | 34.52 | 0.40 | 94 | | | | | | | |

157.60 SPENCER F. BAIRD; February 6, 1956; 2028 GCT; 20°52'N, 112°29'W; sounding, 1900+ fm; wind, 340°, force 2; weather, partly cloudy; sea, moderate; wire angle, 05°.

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|--------|---------|--------|---------|------|--------|
| 0 | 21.11 | 34.48 | 5.16 | 383 | 0 | 21.11 | 34.48 | 5.16 | 24.09 | 383 | 0.00 |
| 10 | 20.80 | 34.49 | - | 375 | 10 | 20.80 | 34.49 | 5.14 | 24.18 | 375 | 0.04 |
| 30 | 20.75 | 34.51 | 5.13 | 371 | 20 | 20.78 | 34.50 | 5.13 | 24.20 | 373 | 0.08 |
| 40 | 20.74 | 34.50 | 5.14 | 373 | 30 | 20.75 | 34.51 | 5.13 | 24.22 | 371 | 0.11 |
| 50 | 20.68 | 34.49 | 5.23 | 372 | 50 | 20.68 | 34.49 | 5.23 | 24.21 | 372 | 0.19 |
| 60 | 18.36 | 34.03 | 5.39 | 347 | 75 | 15.11 | 33.75 | 4.53 | 25.01 | 296 | 0.27 |
| 69 | 16.14 | 33.82 | 5.11 | 313 | 100 | 13.26 | 34.13 | 2.34 | 25.69 | 231 | 0.34 |
| 79 | 14.64 | 33.82 | 4.11 | 282 | 150 | 11.88 | 34.34 | 1.20 | 26.12 | 190 | 0.44 |
| 89 | 13.97 | 34.03 | 2.97 | 252 | 200 | 11.00 | 34.61 | 0.51 | 26.49 | 155 | 0.53 |
| 98 | 13.36 | 34.12 | 2.41 | 234 | 250 | 9.93 | 34.69 | 0.52 | 26.74 | 131 | 0.60 |
| 122 | 12.78 | 34.30 | 1.70 | 209 | 300 | 9.38 | 34.65 | 0.30 | 26.81 | 125 | 0.67 |
| 150 | 11.88 | 34.34 | 1.20 | 190 | 400 | 8.46 | 34.58 | 0.15 | 26.90 | 116 | 0.80 |
| 197 | 11.06 | 34.60 | 0.51 | 157 | 500 | 7.27 | 34.54 | 0.18 | 27.05 | 102 | 0.91 |
| 253 | 9.88 | 34.69a) | 0.52 | 130 | 600 | (6.20) | (34.51) | (0.20) | (27.16) | (92) | (1.01) |
| 353 | 8.98 | 34.61 | 0.15 | 121 | | | | | | | |
| 468 | 7.61 | 34.56 | 0.16 | 106 | | | | | | | |
| 590 | 6.31 | 34.51 | 0.19 | 93 | | | | | | | |

117G.25 BLACK DOUGLAS; February 14, 1956; 0740 GCT; 28°27'N, 112°48.5'W; sounding, 150 fm; wind, 200°, force 3; weather, clear; sea, slight; wire angle, 12°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 14.36 | 33.15 | 3.81 | 178 | 0 | 14.36 | 35.15 | 3.81 | 26.25 | 178 | 0.00 |
| 9 | 14.32 | 35.15 | 3.79 | 177 | 10 | 14.32 | 35.15 | 3.78 | 26.26 | 177 | 0.02 |
| 23 | 14.24 | 35.16 | 3.63 | 175 | 20 | 14.25 | 35.16 | 3.69 | 26.28 | 175 | 0.04 |
| 46 | 14.22 | 35.14 | 3.45 | 176 | 30 | 14.24 | 35.16 | 3.58 | 26.28 | 175 | 0.05 |
| 70 | 14.18 | 35.13 | 3.47 | 176 | 50 | 14.22 | 35.13 | 3.46 | 26.27 | 176 | 0.09 |
| 93 | 14.02 | 35.11 | 3.49 | 175 | 75 | 14.14 | 35.12 | 3.47 | 26.27 | 176 | 0.13 |
| 139 | 13.53 | 35.06 | 2.92 | 168 | 100 | 13.97 | 35.10 | 3.43 | 26.29 | 174 | 0.18 |
| 184 | 13.34 | 35.04 | 2.74 | 166 | 150 | 13.45 | 35.05 | 2.83 | 26.36 | 167 | 0.26 |
| 230 | 12.98 | 34.99 | 2.39 | 163 | 200 | 13.23 | 35.03 | 2.66 | 26.38 | 165 | 0.34 |

a) Possible evaporation; value falls on property curve.

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-------------------|--------------|----|---|----------------|------------|-------------------|------------|--|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD | |
| m | °C | ‰ | ml/L | 10 cm/g | m | °C | ‰ | ml/L | g/L | 10 cm/g | dyn. m | |

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BLACK DOUGLAS; February 14, 1956; 0603 GCT; 28°32'N, 112°39'W; sounding, 260+ fm; a) wind, calm; weather, clear; sea, smooth; wire angle, 00°.

117G.35

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.20 | 35.23 | 4.60 | 190 | 0 | 15.20 | 35.23 | 4.60 | 26.12 | 190 | 0.00 |
| 10 | 14.69 | 35.17 | 3.85 | 184 | 10 | 14.69 | 35.17 | 3.85 | 26.18 | 184 | 0.02 |
| 24 | 14.66 | 35.19 | 3.75 | 181 | 20 | 14.68 | 35.18 | 3.79 | 26.21 | 182 | 0.04 |
| 48 | 13.96 | 35.12 | 3.24 | 172 | 30 | 14.54 | 35.18 | 3.61 | 26.24 | 179 | 0.06 |
| 72 | 13.82 | 35.12 | 2.87 | 170 | 50 | 13.93 | 35.12 | 3.23 | 26.31 | 172 | 0.09 |
| 96 | 13.61 | 35.05 | 2.84 | 170 | 75 | 13.80 | 35.12 | 2.84 | 26.34 | 170 | 0.13 |
| 143 | 12.86 | 34.97 | 2.43 | 162 | 100 | 13.59 | 35.04 | 2.84 | 26.33 | 170 | 0.18 |
| 188 | 12.67 | 34.97 | 2.33 | 158 | 150 | 12.82 | 34.97 | 2.42 | 26.43 | 161 | 0.26 |
| 280 | 12.18 | 34.92 | 2.06 | 153 | 200 | 12.64 | 34.97 | 2.32 | 26.46 | 158 | 0.34 |
| | | | | | 250 | 12.35 | 34.94 | 2.19 | 26.50 | 154 | 0.42 |

65

BLACK DOUGLAS; February 14, 1956; 0342 GCT; 28°39.5'N, 112°24.5'W; sounding, 150 fm; wind, 030°, force 2; weather, clear; sea, calm; wire angle, 00°.

117G.50

| | | | | | | | | | | | |
|-----|-------|--------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 13.34 | 35.01 | 2.87 | 168 | 0 | 13.34 | 35.01 | 2.87 | 26.35 | 168 | 0.00 |
| 10 | 13.20 | 35.00 | 2.57 | 166 | 10 | 13.20 | 35.00 | 2.57 | 26.38 | 166 | 0.02 |
| 25 | 12.29 | 34.91 | 1.77 | 156 | 20 | 12.46 | 34.93 | 1.86 | 26.46 | 158 | 0.03 |
| 48 | 12.11 | 35.04u | 1.56 | - | 30 | 12.23 | 34.90 | 1.72 | 26.48 | 156 | 0.05 |
| 71 | 11.80 | 34.88 | - | 149 | 50 | 12.10 | 34.90 | 1.55 | 26.51 | 153 | 0.08 |
| 94 | 11.42 | 34.83 | 1.12 | 146 | 75 | 11.75 | 34.88 | 1.25 | 26.56 | 148 | 0.12 |
| 141 | 11.15 | 34.86u | 1.09 | - | 100 | 11.39 | 34.82 | 1.11 | 26.59 | 146 | 0.15 |
| 184 | 11.06 | 34.81 | 1.00 | 141 | 150 | 11.12 | 34.81 | 1.07 | 26.63 | 142 | 0.23 |
| 229 | 10.86 | 34.80 | 0.96 | 138 | 200 | 11.00 | 34.81 | 0.98 | 26.65 | 140 | 0.30 |

64

BLACK DOUGLAS; February 13, 1956; 1232 GCT; 27°50'N, 112°11.5'W; sounding, 350 fm; wind, 200°, force 4; weather, clear; sea, slight; wire angle, 12°.

121G.20

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|--------|---------|------|---------|-------|--------|
| 0 | 15.53 | 35.15 | 4.72 | 203 | 0 | 15.53 | 35.15 | 4.72 | 25.99 | 203 | 0.00 |
| 9 | 15.53 | 35.16 | 5.39 | 202 | 10 | 15.53 | 35.16 | 5.39 | 26.00 | 202 | 0.02 |
| 23 | 15.53 | 35.16 | 4.81 | 202 | 20 | 15.53 | 35.16 | 4.92 | 26.00 | 202 | 0.04 |
| 47 | 15.33 | 35.19 | 4.37 | 195 | 30 | 15.48 | 35.18 | 4.69 | 26.02 | 200 | 0.06 |
| 71 | 15.03 | 35.12 | 4.14 | 195 | 50 | 15.30 | 35.19 | 4.33 | 26.07 | 195 | 0.10 |
| 99 | 14.70 | 35.12 | 3.74 | 187 | 75 | 15.00 | 35.12 | 4.11 | 26.08 | 194 | 0.15 |
| 146 | 14.06 | 35.06 | 2.87 | 179 | 100 | 14.70 | 35.12 | 3.73 | 26.15 | 187 | 0.20 |
| 190 | 12.72 | 34.93 | 1.31 | 162 | 150 | 13.98 | 35.06 | 2.73 | 26.25 | 178 | 0.29 |
| 286 | 10.90 | 34.81 | 0.94 | 138 | 200 | 12.50 | 34.92 | 1.22 | 26.44 | 160 | 0.37 |
| 377 | 8.80 | 34.67 | 0.45 | 115 | 250 | 11.58 | 34.85 | 1.05 | 26.58 | 147 | 0.45 |
| 474 | 7.96 | 34.62 | 0.26 | 106 | 300 | 10.60 | 34.79 | 0.86 | 26.70 | 135 | 0.52 |
| | | | | | 400 | 8.47 | 34.65 | 0.38 | 26.94 | 112 | 0.65 |
| | | | | | 500 | (7.80) | (34.61) | | (27.02) | (104) | (0.76) |

56

BLACK DOUGLAS; February 13, 1956; 1530 GCT; 28°00'N, 112°11.5'W; sounding, 560 fm; wind, 230°, force 3; weather, clear; sea, slight; wire angle, 12°.

121G.40

| | | | | | | | | | | | |
|-----|-------|--------|-------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.72 | 35.20 | 4.83 | 203 | 0 | 15.72 | 35.20 | 4.83 | 25.99 | 203 | 0.00 |
| 9 | 15.69 | 35.19 | 4.94 | 203 | 10 | 15.68 | 35.19 | 4.92 | 25.98 | 203 | 0.02 |
| 23 | 15.68 | 35.18 | 4.67 | 203 | 20 | 15.68 | 35.18 | 4.83 | 25.98 | 203 | 0.04 |
| 47 | 15.66 | 35.24 | 4.68 | 198 | 30 | 15.67 | 35.18 | 4.67 | 25.98 | 203 | 0.06 |
| 71 | 15.37 | 35.16 | 4.24 | 198 | 50 | 15.63 | 35.24 | 4.54 | 26.04 | 198 | 0.10 |
| 98 | 15.16 | 35.13 | 3.55 | 196 | 75 | 15.32 | 35.16 | 4.19 | 26.04 | 198 | 0.15 |
| 143 | 13.72 | 34.97 | 1.74 | 179 | 100 | 15.10 | 35.12 | 3.32 | 26.07 | 195 | 0.20 |
| 190 | 12.74 | 34.89 | 1.10 | 165 | 150 | 13.59 | 34.96 | 1.62 | 26.27 | 176 | 0.29 |
| 285 | 11.24 | 34.84 | 1.16 | 142 | 200 | 12.58 | 34.88 | 1.10 | 26.41 | 163 | 0.38 |
| 376 | 9.58 | 34.71 | 0.44 | 124 | 250 | 11.80 | 34.85 | 1.13 | 26.54 | 150 | 0.46 |
| 473 | 8.28 | 34.64 | 0.28 | 110 | 300 | 11.00 | 34.83 | 1.13 | 26.66 | 139 | 0.53 |
| 565 | 7.58 | 34.60 | 0.26 | 103 | 400 | 9.20 | 34.69 | 0.34 | 26.86 | 120 | 0.67 |
| 658 | 6.94 | 34.61u | 0.35u | - | 500 | 8.02 | 34.63 | 0.27 | 27.00 | 107 | 0.78 |
| 754 | 6.25 | 34.54 | 0.24 | 90 | 600 | 7.35 | 34.59 | 0.25 | 27.07 | 100 | 0.89 |
| 847 | 5.47 | 34.53 | 0.22 | 81 | 700 | 6.60 | 34.55 | 0.24 | 27.13 | 94 | 1.00 |
| | | | | | 800 | 5.91 | 34.53 | 0.22 | 27.22 | 86 | 1.09 |

57

a) Sounding varies from 205 to more than 260 fathoms.

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|--------------------------------|--------------|----|---|----------------|------------|--------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | $10^{-5} \text{cm}^3/\text{g}$ | m | °C | ‰ | ml/L | g/L | $10^{-5} \text{cm}^3/\text{g}$ | dyn. m |

127G.40 BLACK DOUGLAS; February 13, 1956; 0310 GCT; 27°08'N, 111°38'W; sounding, 1100 fm; wind, 260°, force 2; weather, partly cloudy; sea, slight; wire angle, 04°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 16.95 | 35.28 | 4.94 | 224 | 0 | 16.95 | 35.28 | 4.94 | 25.77 | 224 | 0.00 |
| 9 | 16.88 | 35.27 | 4.79 | 223 | 10 | 16.88 | 35.27 | 4.79 | 25.78 | 223 | 0.02 |
| 23 | 16.78 | 35.28 | 4.86 | 220 | 20 | 16.79 | 35.28 | 4.82 | 25.80 | 221 | 0.04 |
| 52 | 16.75 | 35.28 | 4.89 | 220 | 30 | 16.76 | 35.28 | 4.88 | 25.81 | 220 | 0.07 |
| 62 | 16.75 | 35.29 | 4.67 | 219 | 50 | 16.75 | 35.28 | 4.89 | 25.81 | 220 | 0.11 |
| 71 | 16.68 | 35.25 | 4.62 | 220 | 75 | 16.40 | 35.22 | 4.27 | 25.84 | 217 | 0.17 |
| 86 | 15.35 | 35.12 | 3.07 | 201 | 100 | 14.88 | 35.08 | 2.63 | 26.08 | 194 | 0.22 |
| 105 | 14.74 | 35.07 | 2.53 | 192 | 150 | 13.53 | 34.98 | 1.75 | 26.29 | 174 | 0.31 |
| 128 | 13.96 | 35.01 | 1.95 | 180 | 200 | 12.62 | 34.88 | 1.17 | 26.40 | 164 | 0.40 |
| 155 | 13.45 | 34.97 | 1.73 | 173 | 250 | 11.91 | 34.83 | 0.90 | 26.50 | 154 | 0.48 |
| 207 | 12.49 | 34.87 | 1.10 | 163 | 300 | 11.25 | 34.79 | 0.73 | 26.58 | 146 | 0.55 |
| 281 | 11.54 | 34.81 | 0.81 | 150 | 400 | 9.74 | 34.67 | 0.31 | 26.76 | 129 | 0.70 |
| 382 | 10.01 | 34.69 | 0.35 | 132 | 500 | 8.16 | 34.61 | 0.17 | 26.96 | 110 | 0.82 |
| 516 | 7.92 | 34.60 | 0.15 | 107 | 600 | 6.97 | 34.57 | 0.14 | 27.11 | 96 | 0.93 |
| 697 | 6.24 | 34.55 | 0.13 | 89 | 700 | 6.22 | 34.55 | 0.13 | 27.20 | 88 | 1.03 |
| 919 | 4.91 | 34.58 | 0.23 | 71 | 800 | 5.65 | 34.56 | 0.17 | 27.27 | 81 | 1.12 |
| 1210 | 3.88 | 34.56 | 0.49 | 62 | 1000 | 4.52 | 34.58 | 0.29 | 27.42 | 67 | 1.28 |

127G.70 BLACK DOUGLAS; February 12, 1956; 2211 GCT; 27°08.5'N, 111°08.5'W; sounding, 1020 fm; wind, 290°, force 3; weather, cloudy; sea, slight; wire angle, 08°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 16.40 | 35.25 | 5.08 | 214 | 0 | 16.40 | 35.25 | 5.08 | 25.87 | 214 | 0.00 |
| 10 | 16.10 | 35.24 | 5.00 | 208 | 10 | 16.10 | 35.24 | 5.00 | 25.93 | 208 | 0.02 |
| 24 | 16.03 | 35.27 | 4.90 | 204 | 20 | 16.06 | 35.26 | 4.96 | 25.96 | 205 | 0.04 |
| 52 | 15.89 | 35.23 | 4.61 | 204 | 30 | 16.01 | 35.27 | 4.83 | 25.98 | 204 | 0.06 |
| 61 | 14.76 | 35.05 | 2.31 | 193 | 50 | 15.90 | 35.24 | 4.67 | 25.98 | 204 | 0.10 |
| 71 | 14.44 | 35.04 | 1.95 | 188 | 75 | 14.35 | 35.04 | 1.96 | 26.16 | 186 | 0.15 |
| 85 | 14.09 | 35.04 | 2.19 | 181 | 100 | 13.65 | 34.98 | 1.52 | 26.27 | 176 | 0.20 |
| 104 | 13.58 | 34.97 | 1.50 | 176 | 150 | 13.03 | 34.94 | 1.71 | 26.35 | 168 | 0.29 |
| 126 | 13.48 | 34.97 | 2.19 | 174 | 200 | 12.01 | 34.86 | 0.88 | 26.50 | 154 | 0.37 |
| 153 | 12.98 | 34.93 | 1.67 | 167 | 250 | 11.24 | 34.80 | 0.70 | 26.59 | 145 | 0.44 |
| 203 | 11.97 | 34.86 | 0.85 | 153 | 300 | 10.45 | 34.72 | 0.49 | 26.68 | 137 | 0.51 |
| 275 | 10.88 | 34.76 | 0.64 | 142 | 400 | 8.63 | 34.63 | 0.19 | 26.91 | 115 | 0.64 |
| 375 | 9.08 | 34.65 | 0.19 | 121 | 500 | 7.40 | 34.60 | 0.19 | 27.07 | 100 | 0.76 |
| 507 | 7.31 | 34.59 | 0.19 | 99 | 600 | 6.80 | 34.56 | 0.16 | 27.11 | 96 | 0.86 |
| 685 | 6.46 | 34.54 | 0.15 | 92 | 700 | 6.40 | 34.54 | 0.15 | 27.16 | 92 | 0.96 |
| 906 | 5.06 | 34.60 | 0.20 | 71 | 800 | 5.86 | 34.56 | 0.15 | 27.25 | 83 | 1.05 |
| 1195 | 3.95 | 34.60 | 0.50 | 60 | 1000 | 4.63 | 34.60 | 0.27 | 27.43 | 66 | 1.22 |

127G.90 BLACK DOUGLAS; February 12, 1956; 1903 GCT; 27°33'N, 110°49'W; sounding, 260+ fm; wind, calm; weather, partly cloudy; sea, smooth; wire angle, 13°.

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 15.65 | 35.16 | 4.39 | 204 | 0 | 15.65 | 35.16 | 4.39 | 25.98 | 204 | 0.00 |
| 9 | 15.44 | 35.22 | 4.44 | 196 | 10 | 15.43 | 35.22 | 4.42 | 26.07 | 196 | 0.02 |
| 23 | 15.28 | 35.14 | 4.08 | 198 | 20 | 15.32 | 35.15 | 4.10 | 26.04 | 198 | 0.04 |
| 46 | 14.33 | 35.08 | 2.20 | 183 | 30 | 15.20 | 35.13 | 3.65 | 26.05 | 197 | 0.06 |
| 69 | 13.20 | 34.90 | 1.32 | 173 | 50 | 14.08 | 35.04 | 1.96 | 26.23 | 180 | 0.10 |
| 91 | 12.88 | 34.92 | 1.20 | 166 | 75 | 13.12 | 34.90 | 1.29 | 26.32 | 172 | 0.14 |
| 135 | 12.06 | 34.89 | 0.92 | 153 | 100 | 12.74 | 34.92 | 1.13 | 26.41 | 163 | 0.18 |
| 179 | 11.60 | 34.83 | 0.78 | 149 | 150 | 11.90 | 34.87 | 0.87 | 26.52 | 152 | 0.26 |
| 267 | 10.52 | 34.74 | 0.26 | 137 | 200 | 11.34 | 34.80 | 0.69 | 26.58 | 147 | 0.34 |
| 357 | 9.57 | 34.67 | 0.14 | 126 | 250 | 10.72 | 34.75 | 0.46 | 26.65 | 140 | 0.41 |
| 449 | 8.52 | 34.65a) | 0.14 | 112 | 300 | 10.15 | 34.71 | 0.18 | 26.73 | 132 | 0.48 |
| | | | | | 400 | 9.13 | 34.65 | 0.14 | 26.86 | 120 | 0.61 |

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

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|-------------------------------------|--------------|----|---|----------------|------------|-------------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm ³ /g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm ³ /g | dyn. m |

S10
CCOF1
5602

BLACK DOUGLAS; February 10, 1956; 2355 GCT; 26°16'N, 111°04.5'W; sounding, 240 fm; wind, 330°, force 6; weather, clear; sea, very rough; wire angle, 06°.

133G.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 16.45 | 35.22 | 4.70 | 217 | 0 | 16.45 | 35.22 | 4.70 | 25.83 | 218 | 0.00 |
| 10 | 16.44 | 35.23 | 4.93 | 216 | 10 | 16.44 | 35.23 | 4.93 | 25.84 | 217 | 0.02 |
| 24 | 16.44 | 35.26 | 4.88 | 214 | 20 | 16.44 | 35.25 | 4.91 | 25.86 | 215 | 0.04 |
| 51 | 16.44 | 35.26 | 4.83 | 214 | 30 | 16.44 | 35.26 | 4.85 | 25.87 | 214 | 0.06 |
| 76 | 16.39 | 35.23 | 4.67 | 215 | 50 | 16.44 | 35.26 | 4.83 | 25.87 | 214 | 0.11 |
| 105 | 15.72 | 35.14 | 3.39 | 207 | 75 | 16.40 | 35.23 | 4.68 | 25.86 | 215 | 0.16 |
| 157 | 13.18 | 34.94 | 0.84 | 170 | 100 | 15.90 | 35.16 | 3.55 | 25.92 | 209 | 0.22 |
| 207 | 11.72 | 34.79 | 0.59 | 154 | 150 | 13.45 | 34.96 | 1.08 | 26.29 | 174 | 0.31 |
| 307 | 9.99 | 34.70 | 0.27 | 131 | 200 | 11.86 | 34.80 | 0.59 | 26.48 | 156 | 0.40 |
| | | | | | 250 | 10.97 | 34.74 | 0.43 | 26.61 | 144 | 0.47 |
| | | | | | 300 | 10.09 | 34.70 | 0.28 | 26.73 | 132 | 0.54 |

BLACK DOUGLAS; February 11, 1956; 0715 GCT; 26°31'N, 110°35.5'W; sounding, 700 fm; wind, 330°, force 6; weather, clear; sea, very rough; wire angle, 14°.

133G.70

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 16.57 | 35.20 | 4.88 | 222 | 0 | 16.57 | 35.20 | 4.88 | 25.79 | 222 | 0.00 |
| 9 | 16.56 | 35.23 | 4.73 | 219 | 10 | 16.56 | 35.23 | 4.75 | 25.82 | 219 | 0.02 |
| 23 | 16.55 | 35.21 | 4.80 | 220 | 20 | 16.56 | 35.21 | 4.75 | 25.81 | 220 | 0.04 |
| 47 | 16.55 | 35.21 | 4.94 | 220 | 30 | 16.55 | 35.21 | 4.82 | 25.80 | 220 | 0.07 |
| 57 | 16.54 | 35.21 | 4.80 | 220 | 50 | 16.55 | 35.21 | 4.88 | 25.81 | 220 | 0.11 |
| 66 | 15.10 | 35.05 | 2.11 | 201 | 75 | 14.50 | 34.99 | 1.43 | 26.09 | 193 | 0.16 |
| 75 | 14.50 | 34.99 | 1.43 | 193 | 100 | 13.58 | 34.95 | 1.12 | 26.26 | 177 | 0.21 |
| 92 | 13.85 | 34.96 | 1.20 | 182 | 150 | 11.87 | 34.86 | 0.68 | 26.52 | 152 | 0.29 |
| 116 | 12.93 | 34.92 | 0.96 | 167 | 200 | 11.02 | 34.80 | 0.50 | 26.63 | 142 | 0.36 |
| 141 | 12.07 | 34.87 | 0.73 | 155 | 250 | 10.34 | 34.74 | 0.28 | 26.71 | 134 | 0.44 |
| 183 | 11.26 | 34.82 | 0.58 | 144 | 300 | 9.70 | 34.72 | 0.28 | 26.81 | 125 | 0.50 |
| 243 | 10.42 | 34.74 | 0.28 | 136 | 400 | 8.45 | 34.62 | 0.23 | 26.92 | 114 | 0.63 |
| 331 | 9.35 | 34.71 | 0.33 | 120 | 500 | 7.37 | 34.56 | 0.20 | 27.05 | 102 | 0.74 |
| 443 | 7.98 | 34.58 | 0.18 | 110 | 600 | 6.50 | 34.56 | 0.28 | 27.16 | 91 | 0.84 |
| 603 | 6.44 | 34.56 | 0.29 | 91 | 700 | 5.87 | 34.56 | 0.23 | 27.24 | 84 | 0.93 |
| 800 | 5.34 | 34.56 | 0.19 | 77 | 800 | 5.34 | 34.56 | 0.19 | 27.31 | 77 | 1.02 |
| 1074 | 4.30 | 34.58 | 0.34 | 64 | 1000 | 4.52 | 34.57 | 0.27 | 27.41 | 68 | 1.18 |

BLACK DOUGLAS; February 9, 1956; 0914, 1937 GCT; 25°39'N, 110°03'W; sounding, 1150 fm; wind, 310°, force 5; weather, clear; sea, moderate; wire angle, 28°, 30°.

139G.70

| | | | | | | | | | | | |
|------|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.39 | 35.26 | 4.70 | 260 | 0 | 18.39 | 35.26 | 4.70 | 25.39 | 260 | 0.00 |
| 8 | 18.40 | 35.25 | 4.90 | 260 | 10 | 18.40 | 35.26 | 4.88 | 25.39 | 260 | 0.03 |
| 26 | 18.40 | 35.26 | 4.75 | 260 | 20 | 18.40 | 35.26 | 4.79 | 25.38 | 260 | 0.05 |
| | | | | | 30 | 18.40 | 35.26 | 4.64 | 25.38 | 260 | 0.08 |
| 46 | 18.17 | 35.23 | 4.37 | 256 | 50 | 17.00 | 35.10 | 2.68 | 25.62 | 238 | 0.13 |
| 58 | 15.64 | 34.97 | 1.42 | 218 | 75 | 14.14 | 34.91 | 1.02 | 26.11 | 191 | 0.18 |
| 67 | 14.78 | 34.94 | 1.18 | 202 | 100 | 13.05 | 34.87 | 0.70 | 26.31 | 172 | 0.23 |
| 79 | 13.86 | 34.90 | 0.97 | 186 | 150 | 12.12 | 34.81 | 0.57 | 26.44 | 159 | 0.31 |
| 99 | 13.06 | 34.87 | 0.70 | 173 | 200 | 11.46 | 34.78 | 0.38 | 26.54 | 150 | 0.39 |
| 128 | 12.42 | 34.85 | 0.73 | 163 | 250 | 10.78 | 34.72 | 0.22 | 26.63 | 142 | 0.46 |
| 151 | 12.08 | 34.81 | 0.54 | 159 | 300 | 10.04 | 34.67 | 0.14 | 26.71 | 134 | 0.54 |
| 200 | 11.46 | 34.78 | 0.38 | 150 | 400 | 8.77 | 34.61 | 0.14 | 26.87 | 119 | 0.66 |
| 266 | 10.51 | 34.70 | 0.16 | 140 | 500 | 7.56 | 34.55 | 0.13 | 27.01 | 106 | 0.78 |
| 350 | 9.39 | 34.64 | 0.14 | 136 | 600 | 6.40 | 34.52 | 0.12 | 27.14 | 93 | 0.89 |
| 458 | 8.10 | 34.57 | 0.13 | 112 | 700 | 5.74 | 34.52 | 0.13 | 27.24 | 84 | 0.98 |
| 610 | 6.34 | 34.52 | 0.12 | 92 | 800 | 5.14 | 34.53 | 0.18 | 27.31 | 77 | 1.07 |
| 800 | 5.14 | 34.53 | 0.18 | 77 | | | | | | | |
| 1070 | - | 34.58 | 0.43 | - | | | | | | | |

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5602

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|----------------|--------------|----|---|----------------|------------|----------------|------------|--|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD | |
| m | °C | ‰ | ml/L | 10^{-5} cm/g | m | °C | ‰ | ml/L | g/L | 10^{-5} cm/g | dyn. m | |

139G.85

BLACK DOUGLAS; February 9, 1956; 0621 GCT; 25°46.5'N, 109°48.5'W; sounding, 650 fm; wind, 320°, force 3; weather, clear; sea, slight; wire angle, 06°.

| | | | | | | | | | | | |
|-----|-------|---------|------|-----|------|--------|---------|--------|---------|------|--------|
| 0 | 18.17 | 35.16 | 4.94 | 261 | 0 | 18.17 | 35.16 | 4.94 | 25.38 | 261 | 0.00 |
| 10 | 18.16 | 35.15 | 4.91 | 261 | 10 | 18.16 | 35.15 | 4.91 | 25.38 | 261 | 0.03 |
| 24 | 18.16 | 35.16 | 4.94 | 261 | 20 | 18.16 | 35.16 | 4.93 | 25.38 | 261 | 0.05 |
| 48 | 16.04 | 35.06 | 1.86 | 220 | 30 | 18.16 | 35.16 | 4.89 | 25.38 | 261 | 0.08 |
| 76 | 14.33 | 34.95 | 1.09 | 192 | 50 | 15.92 | 35.05 | 1.70 | 25.83 | 217 | 0.13 |
| 100 | 13.24 | 34.93 | 0.78 | 172 | 75 | 14.39 | 34.95 | 1.10 | 26.09 | 193 | 0.18 |
| 146 | 12.14 | 34.84 | 0.40 | 158 | 100 | 13.24 | 34.93 | 0.78 | 26.31 | 172 | 0.22 |
| 196 | 11.54 | 34.85 | 0.41 | 147 | 150 | 12.07 | 34.84 | 0.40 | 26.47 | 157 | 0.31 |
| 241 | 10.87 | 34.76 | 0.18 | 141 | 200 | 11.48 | 34.85 | 0.38 | 26.58 | 146 | 0.38 |
| 291 | 10.34 | 34.70 | 0.15 | 137 | 250 | 10.78 | 34.74 | 0.17 | 26.64 | 141 | 0.46 |
| 383 | 9.24 | 34.64 | 0.12 | 124 | 300 | 10.23 | 34.69 | 0.14 | 26.69 | 136 | 0.53 |
| 479 | 8.14 | 34.58 | 0.10 | 112 | 400 | 9.08 | 34.63 | 0.11 | 26.84 | 122 | 0.66 |
| 573 | 7.00 | 34.58 | 0.11 | 96 | 500 | 7.87 | 34.58 | 0.10 | 26.99 | 108 | 0.78 |
| 670 | 6.18 | 34.61a) | 0.11 | - | 600 | 6.70 | 34.58 | 0.11 | 27.14 | 93 | 0.89 |
| 763 | 5.75 | 34.54 | 0.13 | 83 | 700 | 6.01 | 34.55 | 0.11 | 27.22 | 86 | 0.98 |
| 863 | 5.28 | 34.54 | 0.14 | 78 | 800 | 5.60 | 34.54 | 0.14 | 27.26 | 82 | 1.07 |
| 958 | 4.82 | 34.53 | 0.24 | 74 | 1000 | (4.70) | (34.53) | (0.28) | (27.36) | (72) | (1.24) |

145G.40

BLACK DOUGLAS; February 8, 1956; 0749 GCT; 24°32'N, 109°59'W; sounding, 470 fm; wind, 350°, force 4; weather, clear; sea, moderate; wire angle, 15°.

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.40 | 35.19 | 4.94 | 264 | 0 | 18.40 | 35.19 | 4.94 | 25.34 | 264 | 0.00 |
| 9 | 18.38 | 35.21 | 4.93 | 262 | 10 | 18.38 | 35.21 | 4.92 | 25.36 | 262 | 0.03 |
| 23 | 18.38 | 35.22 | 4.88 | 262 | 20 | 18.38 | 35.21 | 4.91 | 25.36 | 262 | 0.05 |
| 47 | 18.16 | 35.20 | 4.73 | 258 | 30 | 18.34 | 35.22 | 4.81 | 25.38 | 261 | 0.08 |
| 74 | 17.64 | 35.14 | 3.90 | 250 | 50 | 18.10 | 35.19 | 4.68 | 25.42 | 257 | 0.13 |
| 97 | 15.09 | 34.90 | 1.26 | 212 | 75 | 17.50 | 35.13 | 3.57 | 25.51 | 248 | 0.19 |
| 142 | 13.24 | 34.87 | 0.76 | 177 | 100 | 14.92 | 34.89 | 1.15 | 25.93 | 208 | 0.25 |
| 192 | 12.41 | 34.87 | 0.52 | 161 | 150 | 13.10 | 34.87 | 0.72 | 26.29 | 173 | 0.35 |
| 282 | 11.18 | 34.73 | 0.13 | 149 | 200 | 12.30 | 34.86 | 0.49 | 26.44 | 160 | 0.43 |
| 378 | 9.80 | 34.65 | 0.13 | 132 | 250 | 11.62 | 34.78 | 0.26 | 26.51 | 153 | 0.51 |
| 470 | 8.29 | 34.57 | 0.11 | 115 | 300 | 10.92 | 34.71 | 0.13 | 26.59 | 146 | 0.59 |
| 567 | 6.97 | 34.52 | 0.11 | 100 | 400 | 9.46 | 34.63 | 0.13 | 26.78 | 128 | 0.73 |
| 658 | 6.34 | 34.53 | 0.14 | 92 | 500 | 7.82 | 34.55 | 0.11 | 26.97 | 110 | 0.86 |
| | | | | | 600 | 6.64 | 34.52 | 0.12 | 27.11 | 96 | 0.96 |

145G.70

BLACK DOUGLAS; February 8, 1956; 1252 GCT; 24°47'N, 109°31'W; sounding, 1100 fm; wind, 350°, force 4; weather, partly cloudy; sea, moderate; wire angle, 15°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.32 | 34.87 | 4.96 | 320 | 0 | 19.32 | 34.87 | 4.96 | 24.76 | 320 | 0.00 |
| 9 | 19.30 | 34.87 | 4.78 | 320 | 10 | 19.29 | 34.87 | 4.77 | 24.76 | 319 | 0.03 |
| 29 | 17.86 | 34.79 | 2.89 | 281 | 20 | 19.27 | 34.87 | 4.64 | 24.76 | 319 | 0.06 |
| 51 | 15.48 | 34.66 | 0.32 | 237 | 30 | 17.67 | 34.78 | 2.62 | 25.20 | 277 | 0.09 |
| 66 | 14.66 | 34.71 | 0.41 | 217 | 50 | 15.79 | 34.66 | 0.37 | 25.60 | 240 | 0.14 |
| 77 | 14.37 | 34.72 | 0.25 | 210 | 75 | 14.42 | 34.72 | 0.31 | 25.90 | 211 | 0.20 |
| 88 | 14.04 | 34.77 | 0.25 | 200 | 100 | 13.55 | 34.78 | 0.25 | 26.13 | 189 | 0.25 |
| 111 | 13.00 | 34.79 | 0.17 | 178 | 150 | 12.24 | 34.81 | 0.17 | 26.42 | 162 | 0.34 |
| 143 | 12.32 | 34.80 | 0.18 | 164 | 200 | 11.78 | 34.80 | 0.19 | 26.50 | 154 | 0.42 |
| 165 | 12.04 | 34.83 | 0.13 | 157 | 250 | 11.36 | 34.78 | 0.27 | 26.55 | 149 | 0.49 |
| 221 | 11.62 | 34.79 | 0.27 | 153 | 300 | 10.86 | 34.78 | 0.19 | 26.65 | 140 | 0.57 |
| 300 | 10.86 | 34.78 | 0.19 | 140 | 400 | 9.42 | 34.69 | 0.19 | 26.83 | 123 | 0.71 |
| 405 | 9.34 | 34.68 | 0.18 | 122 | 500 | 8.03 | 34.61 | 0.17 | 26.99 | 108 | 0.83 |
| 544 | 7.46 | 34.59 | 0.12 | 102 | 600 | 6.95 | 34.58 | 0.12 | 27.12 | 95 | 0.93 |
| 743 | 5.80 | 34.57 | 0.18 | 82 | 700 | 6.11 | 34.57 | 0.16 | 27.22 | 86 | 1.03 |
| 976 | 4.64 | 34.58 | 0.25 | 68 | 800 | 5.46 | 34.57 | 0.19 | 27.30 | 78 | 1.12 |
| 1295 | 3.81 | 34.63 | 0.55 | 56 | 1000 | 4.55 | 34.58 | 0.27 | 27.42 | 67 | 1.28 |

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

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-----------------------------------|--------------|----|---|----------------|------------|-----------------------------------|------------|--|
| Z | T | S | O ₂ | δ_{T_3} | Z | T | S | O ₂ | σ_t | δ_{T_3} | ΔD | |
| m | °C | ‰ | ml/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | m | °C | ‰ | ml/L | g/L | $\frac{10^{-5}}{10 \text{ cm/g}}$ | dyn. m | |

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5602

BLACK DOUGLAS; February 7, 1956; 2244 GCT; 23°40'N, 109°27.5'W; sounding, 240 fm; wind, 320°, force 4; weather, cloudy; sea, moderate; wire angle, 30°.

151G.40

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|-----|-------|-------|------|-------|-----|------|
| 0 | 18.96 | 35.19 | 4.72 | 278 | 0 | 18.96 | 35.19 | 4.72 | 25.20 | 278 | 0.00 |
| 8 | 18.98 | 35.19 | 4.85 | 278 | 10 | 18.96 | 35.19 | 4.85 | 25.20 | 278 | 0.03 |
| 21 | 18.91 | 35.17 | 4.52 | 278 | 20 | 18.95 | 35.17 | 4.52 | 25.20 | 278 | 0.06 |
| 42 | 18.83 | 35.19 | 4.74 | 275 | 30 | 18.90 | 35.17 | 4.63 | 25.21 | 277 | 0.08 |
| 63 | 18.69 | 35.26 | 4.57 | 266 | 50 | 18.79 | 35.24 | 4.74 | 25.28 | 270 | 0.14 |
| 84 | 16.90 | 35.07 | 2.74 | 238 | 75 | 17.75 | 35.16 | 3.47 | 25.48 | 251 | 0.20 |
| 124 | 14.17 | 34.90 | 1.02 | 193 | 100 | 15.62 | 34.98 | 1.92 | 25.84 | 217 | 0.26 |
| 164 | 12.90 | 34.83 | 0.52 | 173 | 150 | 13.23 | 34.85 | 0.63 | 26.25 | 178 | 0.36 |
| 234 | 11.90 | 34.79 | 0.26 | 157 | 200 | 12.33 | 34.81 | 0.37 | 26.40 | 164 | 0.45 |
| 304 | 10.86 | 34.73 | 0.17 | 144 | 250 | 11.66 | 34.78 | 0.20 | 26.50 | 154 | 0.53 |
| | | | | | 300 | 10.95 | 34.73 | 0.17 | 26.61 | 144 | 0.61 |

BLACK DOUGLAS; February 7, 1956; 1827 GCT; 23°55'N, 108°59'W; sounding, 1400 fm; wind, 340°, force 3; weather, cloudy; sea, slight; wire angle, 15°.

151G.70

| | | | | | | | | | | | |
|------|-------|--------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.76 | 34.89 | 4.62 | 319 | 0 | 19.76 | 34.89 | 4.62 | 24.76 | 319 | 0.00 |
| 9 | 19.74 | 34.88 | 4.65 | 319 | 10 | 19.74 | 34.88 | 4.65 | 24.76 | 319 | 0.03 |
| 23 | 19.66 | 34.90 | 4.54 | 316 | 20 | 19.68 | 34.89 | 4.57 | 24.79 | 317 | 0.06 |
| 51 | 17.92 | 34.90 | 3.17 | 274 | 30 | 19.62 | 34.90 | 4.50 | 24.81 | 315 | 0.10 |
| 60 | 15.53 | 34.62 | 1.35 | 241 | 50 | 18.77 | 34.91 | 3.81 | 25.03 | 293 | 0.16 |
| 69 | 15.04 | 34.75 | 1.08 | 222 | 75 | 14.70 | 34.78 | 0.98 | 25.89 | 212 | 0.22 |
| 83 | 14.22 | 34.79 | 0.88 | 202 | 100 | 13.68 | 34.77 | 0.76 | 26.09 | 192 | 0.27 |
| 100 | 13.68 | 34.77 | 0.76 | 192 | 150 | 12.57 | 34.81 | 0.65 | 26.35 | 168 | 0.36 |
| 123 | 13.08 | 34.88u | 0.41 | - | 200 | 11.83 | 34.78 | 0.68 | 26.47 | 157 | 0.44 |
| 149 | 12.58 | 34.81 | 0.64 | 168 | 250 | 11.18 | 34.74 | 0.29 | 26.56 | 148 | 0.52 |
| 198 | 11.86 | 34.78 | 0.70 | 157 | 300 | 10.50 | 34.69 | 0.16 | 26.65 | 140 | 0.60 |
| 268 | 10.98 | 34.72 | 0.19 | 146 | 400 | 9.02 | 34.60 | 0.14 | 26.83 | 123 | 0.73 |
| 365 | 9.56 | 34.63 | 0.14 | 129 | 500 | 7.59 | 34.53 | 0.12 | 26.99 | 108 | 0.85 |
| 495 | 7.64 | 34.53 | 0.12 | 109 | 600 | 6.62 | 34.51 | 0.12 | 27.10 | 97 | 0.96 |
| 670 | 6.12 | 34.51 | 0.14 | 90 | 700 | 6.00 | 34.51 | 0.17 | 27.20 | 88 | 1.06 |
| 890 | 4.84 | 34.54 | 0.45 | 73 | 800 | 5.40 | 34.52 | 0.32 | 27.27 | 81 | 1.15 |
| 1178 | 3.89 | 34.56 | 0.27 | 62 | 1000 | 4.44 | 34.55 | 0.43 | 27.41 | 68 | 1.32 |

BLACK DOUGLAS; February 7, 1956; 1342 GCT; 24°05'N, 108°30'W; sounding, 700 fm; wind, 340°, force 4; weather, clear; sea, slight; wire angle, 14°.

151G.100

| | | | | | | | | | | | |
|------|-------|--------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.99 | 34.78 | 5.08 | 333 | 0 | 19.99 | 34.78 | 5.08 | 24.61 | 333 | 0.00 |
| 10 | 20.01 | 34.77 | 4.96 | 334 | 10 | 20.01 | 34.77 | 4.96 | 24.61 | 334 | 0.03 |
| 23 | 19.10 | 34.81 | 3.52 | 309 | 20 | 19.99 | 34.77 | 4.78 | 24.61 | 334 | 0.07 |
| 46 | 16.00 | 34.73 | 1.66 | 243 | 30 | 17.54 | 34.78 | 2.48 | 25.24 | 274 | 0.10 |
| 55 | 15.64 | 34.73 | 1.46 | 236 | 50 | 15.79 | 34.73 | 1.56 | 25.60 | 240 | 0.15 |
| 65 | 15.35 | 34.91u | 1.20 | - | 75 | 14.62 | 34.79 | 0.82 | 25.91 | 210 | 0.20 |
| 73 | 14.98 | 34.79 | 0.87 | 213 | 100 | 13.70 | 34.79 | 0.42 | 26.10 | 191 | 0.26 |
| 90 | 13.98 | 34.78 | 0.53 | 198 | 150 | 12.70 | 34.81 | 0.11 | 26.32 | 170 | 0.35 |
| 112 | 13.43 | 34.80 | 0.33 | 186 | 200 | 12.00 | 34.78 | 0.09 | 26.44 | 160 | 0.43 |
| 137 | 12.94 | 34.81 | 0.16 | 175 | 250 | 11.22 | 34.73 | 0.09 | 26.54 | 150 | 0.51 |
| 179 | 12.28 | 34.80 | 0.09 | 164 | 300 | 10.62 | 34.70 | 0.09 | 26.63 | 142 | 0.58 |
| 240 | 11.38 | 34.74 | 0.09 | 152 | 400 | 9.17 | 34.65 | 0.08 | 26.84 | 122 | 0.72 |
| 330 | 10.26 | 34.69 | 0.10 | 137 | 500 | 7.68 | 34.58 | 0.08 | 27.01 | 105 | 0.84 |
| 443 | 8.46 | 34.62 | 0.08 | 114 | 600 | 6.81 | 34.54 | 0.08 | 27.10 | 97 | 0.95 |
| 603 | 6.78 | 34.54 | 0.08 | 96 | 700 | 6.12 | 34.51 | 0.10 | 27.18 | 90 | 1.05 |
| 799 | 5.48 | 34.50 | 0.12 | 84 | 800 | 5.48 | 34.50 | 0.12 | 27.24 | 84 | 1.14 |
| 1071 | 4.28 | 34.56 | 0.37 | 66 | 1000 | 4.54 | 34.54 | 0.27 | 27.39 | 70 | 1.31 |

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| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | | |
|----------|----|---|----------------|-------------------------------------|--------------|----|---|----------------|------------|-------------------------------------|------------|--|
| Z | T | S | O ₂ | δT_{-5}^3 | Z | T | S | O ₂ | σ_t | δT_{-5}^3 | ΔD | |
| m | °C | ‰ | ml/L | 10 ⁻⁵ cm ³ /g | m | °C | ‰ | ml/L | g/L | 10 ⁻⁵ cm ³ /g | dyn. m | |

157G.10 BLACK DOUGLAS; February 6, 1956; 0350 GCT; 22°33'N, 109°23'W; sounding, 1600; wind, direction missing, force 1; weather, clear; sea, slight; wire angle, 18°.

| | | | | | | | | | | | |
|------|-------|--------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 21.24 | 34.79 | 5.33 | 364 | 0 | 21.24 | 34.79 | 5.33 | 24.29 | 364 | 0.00 |
| 9 | 20.56 | 34.87 | 5.09 | 341 | 10 | 20.40 | 34.89 | 5.04 | 24.60 | 335 | 0.04 |
| 23 | 19.10 | 35.08 | 4.66 | 289 | 20 | 19.15 | 35.08 | 4.67 | 25.05 | 291 | 0.07 |
| 50 | 18.97 | 35.08 | 4.63 | 286 | 30 | 19.07 | 35.08 | 4.64 | 25.09 | 288 | 0.10 |
| 59 | 18.65 | 35.02 | 4.35 | 282 | 50 | 18.97 | 35.08 | 4.63 | 25.11 | 286 | 0.15 |
| 67 | 17.86 | 34.96 | 3.44 | 268 | 75 | 15.88 | 34.75 | 1.81 | 25.61 | 239 | 0.22 |
| 80 | 14.65 | 34.63 | 1.17 | 222 | 100 | 13.62 | 34.73 | 0.50 | 26.08 | 194 | 0.27 |
| 97 | 13.72 | 34.72 | 0.54 | 197 | 150 | 12.53 | 34.81 | 0.22 | 26.35 | 168 | 0.36 |
| 119 | 13.02 | 34.76 | 0.39 | 180 | 200 | 11.78 | 34.78 | 0.20 | 26.48 | 156 | 0.45 |
| 144 | 12.62 | 34.81 | 0.22 | 169 | 250 | 11.38 | 34.76 | 0.14 | 26.54 | 150 | 0.52 |
| 191 | 11.92 | 34.79 | 0.22 | 158 | 300 | 10.88 | 34.72 | 0.16 | 26.61 | 144 | 0.60 |
| 256 | 11.34 | 34.88u | 0.13 | - | 400 | 9.50 | 34.62 | 0.22 | 26.76 | 129 | 0.74 |
| 351 | 10.22 | 34.66 | 0.22 | 138 | 500 | 7.81 | 34.56 | 0.20 | 26.98 | 108 | 0.87 |
| 477 | 8.12 | 34.57 | 0.22 | 112 | 600 | 6.74 | 34.53 | 0.17 | 27.11 | 96 | 0.97 |
| 646 | 6.34 | 34.52 | 0.17 | 92 | 700 | 5.98 | 34.52 | 0.19 | 27.20 | 88 | 1.07 |
| 859 | 4.96 | 34.53 | 0.27 | 75 | 800 | 5.28 | 34.52 | 0.22 | 27.29 | 79 | 1.16 |
| 1142 | 3.98 | 34.58 | 0.67 | 61 | 1000 | 4.35 | 34.55 | 0.46 | 27.42 | 67 | 1.32 |

157G.40 BLACK DOUGLAS; February 6, 1956; 0900 GCT; 22°48.5'N, 108°50.5'W; sounding, 1800 fm; wind, 360°, force 2; weather, clear; sea, moderate; wire angle, 16°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.16 | 35.09 | 4.96 | 289 | 0 | 19.16 | 35.09 | 4.96 | 25.07 | 289 | 0.00 |
| 9 | 19.18 | 35.09 | 5.07 | 291 | 10 | 19.17 | 35.10 | 5.08 | 25.06 | 290 | 0.03 |
| 23 | 19.17 | 35.10 | 5.14 | 289 | 20 | 19.17 | 35.10 | 5.10 | 25.07 | 290 | 0.06 |
| 51 | 15.72 | 34.83 | 1.59 | 230 | 30 | 19.15 | 35.10 | 5.14 | 25.08 | 289 | 0.09 |
| 60 | 14.90 | 34.81 | 1.15 | 215 | 50 | 15.91 | 34.84 | 1.66 | 25.67 | 233 | 0.14 |
| 69 | 14.23 | 34.79 | 0.68 | 202 | 75 | 13.87 | 34.78 | 0.60 | 26.07 | 195 | 0.19 |
| 82 | 13.56 | 34.78 | 0.58 | 189 | 100 | 12.94 | 34.78 | 0.51 | 26.26 | 177 | 0.24 |
| 100 | 12.94 | 34.78 | 0.51 | 177 | 150 | 12.12 | 34.78 | 0.32 | 26.42 | 162 | 0.32 |
| 122 | 12.30 | 34.78 | 0.42 | 166 | 200 | 11.47 | 34.78 | 0.14 | 26.53 | 151 | 0.40 |
| 148 | 12.14 | 34.78 | 0.32 | 162 | 250 | 10.72 | 34.72 | 0.12 | 26.63 | 142 | 0.48 |
| 196 | 11.58 | 34.78 | 0.16 | 152 | 300 | 9.98 | 34.67 | 0.11 | 26.72 | 133 | 0.55 |
| 264 | 10.54 | 34.70 | 0.12 | 140 | 400 | 8.59 | 34.60 | 0.11 | 26.89 | 117 | 0.68 |
| 358 | 9.18 | 34.63 | 0.11 | 124 | 500 | 7.29 | 34.54 | 0.13 | 27.04 | 103 | 0.79 |
| 485 | 7.46 | 34.55 | 0.12 | 105 | 600 | 6.38 | 34.50 | 0.13 | 27.14 | 94 | 0.90 |
| 655 | 5.97 | 34.49 | 0.14 | 90 | 700 | 5.67 | 34.50 | 0.15 | 27.22 | 86 | 0.99 |
| 865 | 4.94 | 34.52 | 0.18 | 76 | 800 | 5.20 | 34.51 | 0.17 | 27.28 | 80 | 1.08 |
| 1147 | 3.87 | 34.56 | 0.55 | 62 | 1000 | 4.38 | 34.54 | 0.28 | 27.41 | 68 | 1.24 |

157G.70 BLACK DOUGLAS; February 6, 1956; 1401 GCT; 23°04.5'N, 108°18'W; sounding, 1600 fm; wind, 300°, force 2; weather, partly cloudy; sea, moderate; wire angle, 07°.

| | | | | | | | | | | | |
|------|-------|-------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 19.75 | 34.70 | 5.22 | 333 | 0 | 19.75 | 34.70 | 5.22 | 24.62 | 333 | 0.00 |
| 10 | 19.74 | 34.74 | 5.22 | 330 | 10 | 19.74 | 34.74 | 5.22 | 24.65 | 330 | 0.03 |
| 23 | 18.76 | 34.75 | 4.88 | 305 | 20 | 19.00 | 34.75 | 5.01 | 24.85 | 311 | 0.07 |
| 52 | 14.82 | 34.78 | 1.13 | 215 | 30 | 18.17 | 34.76 | 4.48 | 25.06 | 291 | 0.10 |
| 62 | 13.81 | 34.70 | 0.43 | 200 | 50 | 15.42 | 34.78 | 1.74 | 25.72 | 227 | 0.15 |
| 72 | 13.48 | 34.70 | 0.34 | 194 | 75 | 13.54 | 34.76 | 0.58 | 26.12 | 190 | 0.20 |
| 86 | 13.18 | 34.79 | 0.72 | 181 | 100 | 12.78 | 34.78 | 0.58 | 26.29 | 174 | 0.25 |
| 104 | 12.70 | 34.78 | 0.51 | 173 | 150 | 12.09 | 34.79 | 0.29 | 26.43 | 161 | 0.33 |
| 128 | 12.30 | 34.81 | 0.34 | 163 | 200 | 11.50 | 34.78 | 0.23 | 26.53 | 151 | 0.41 |
| 156 | 12.02 | 34.78 | 0.28 | 160 | 250 | 10.92 | 34.73 | 0.18 | 26.61 | 144 | 0.48 |
| 207 | 11.40 | 34.78 | 0.22 | 149 | 300 | 10.25 | 34.66 | 0.17 | 26.67 | 138 | 0.56 |
| 281 | 10.54 | 34.69 | 0.16 | 141 | 400 | 8.64 | 34.59 | 0.24 | 26.87 | 119 | 0.69 |
| 381 | 8.88 | 34.60 | 0.25 | 122 | 500 | 7.62 | 34.53 | 0.20 | 26.98 | 109 | 0.81 |
| 515 | 7.50 | 34.52 | 0.20 | 108 | 600 | 6.88 | 34.52 | 0.19 | 27.08 | 99 | 0.92 |
| 695 | 6.18 | 34.52 | 0.19 | 90 | 700 | 6.15 | 34.52 | 0.19 | 27.18 | 90 | 1.02 |
| 928 | 4.72 | 34.52 | 0.32 | 74 | 800 | 5.59 | 34.52 | 0.19 | 27.25 | 83 | 1.11 |
| 1210 | 3.74 | 34.54 | 0.78 | 62 | 1000 | 4.40 | 34.52 | 0.40 | 27.39 | 70 | 1.28 |

| OBSERVED | | | | | INTERPOLATED | | | | COMPUTED | | |
|----------|----|---|----------------|------------------------------|--------------|----|---|----------------|------------|------------------------------|------------|
| Z | T | S | O ₂ | δT_3 | Z | T | S | O ₂ | σ_t | δT_3 | ΔD |
| m | °C | ‰ | ml/L | 10^{-5} cm ³ /g | m | °C | ‰ | ml/L | g/L | 10^{-5} cm ³ /g | dyn. m |

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BLACK DOUGLAS; February 6, 1956; 1757 GCT; 23°18'N, 107°58.5'W; sounding, 1230 fm; wind, 330°, force 2; weather, cloudy; sea, moderate; wire angle, 05°.

157G.100

| | | | | | | | | | | | |
|------|-------|---------|------|-----|------|-------|-------|------|-------|-----|------|
| 0 | 20.31 | 34.97 | 4.98 | 327 | 0 | 20.31 | 34.97 | 4.98 | 24.68 | 327 | 0.00 |
| 10 | 20.24 | 35.00 | 5.12 | 323 | 10 | 20.24 | 35.00 | 5.12 | 24.71 | 324 | 0.03 |
| 24 | 20.20 | 34.99 | 4.89 | 323 | 20 | 20.20 | 34.99 | 4.94 | 24.72 | 323 | 0.07 |
| 52 | 16.14 | 34.71 | 1.51 | 248 | 30 | 20.18 | 34.99 | 4.87 | 24.73 | 322 | 0.10 |
| 61 | 15.40 | 34.68 | 0.94 | 234 | 50 | 16.50 | 34.73 | 1.77 | 25.45 | 254 | 0.16 |
| 71 | 15.10 | 34.72 | 0.96 | 225 | 75 | 14.90 | 34.74 | 0.87 | 25.82 | 219 | 0.21 |
| 84 | 14.17 | 34.76a) | 0.46 | 203 | 100 | 13.74 | 34.78 | 0.20 | 26.10 | 192 | 0.27 |
| 103 | 13.65 | 34.79 | 0.14 | 191 | 150 | 12.40 | 34.81 | 0.18 | 26.38 | 165 | 0.36 |
| 126 | 12.89 | 34.80 | 0.31 | 175 | 200 | 11.70 | 34.79 | 0.13 | 26.51 | 153 | 0.44 |
| 153 | 12.34 | 34.81 | 0.12 | 164 | 250 | 11.01 | 34.75 | 0.13 | 26.61 | 144 | 0.51 |
| 204 | 11.62 | 34.79 | 0.14 | 153 | 300 | 10.32 | 34.70 | 0.11 | 26.69 | 136 | 0.58 |
| 276 | 10.62 | 34.73 | 0.12 | 139 | 400 | 8.83 | 34.59 | 0.10 | 26.85 | 121 | 0.72 |
| 377 | 9.16 | 34.61 | 0.10 | 125 | 500 | 7.52 | 34.56 | 0.10 | 27.02 | 105 | 0.84 |
| 510 | 7.40 | 34.55 | 0.10 | 104 | 600 | 6.60 | 34.53 | 0.17 | 27.13 | 94 | 0.94 |
| 690 | 5.85 | 34.52 | 0.22 | 86 | 700 | 5.78 | 34.52 | 0.22 | 27.22 | 85 | 1.04 |
| 914 | 4.68 | 34.55 | 0.31 | 71 | 800 | 5.20 | 34.53 | 0.27 | 27.30 | 78 | 1.13 |
| 1207 | 3.94 | 34.55 | 0.56 | 63 | 1000 | 4.40 | 34.55 | 0.37 | 27.41 | 68 | 1.28 |

BLACK DOUGLAS; February 6, 1956; 2241 GCT; 23°33'N, 107°31'W; sounding, 600 fm; wind, 240°, force 3; weather, cloudy; sea, slight; wire angle, 03°.

157G.130

| | | | | | | | | | | | |
|-----|-------|-------|------|-----|------|--------|---------|--------|---------|------|--------|
| 0 | 22.00 | 34.65 | 5.52 | 394 | 0 | 22.00 | 34.65 | 5.52 | 23.98 | 394 | 0.00 |
| 9 | 21.37 | 34.67 | 5.42 | 377 | 10 | 21.32 | 34.68 | 5.38 | 24.19 | 374 | 0.04 |
| 23 | 20.72 | 34.79 | 4.43 | 351 | 20 | 20.85 | 34.78 | 4.62 | 24.40 | 354 | 0.07 |
| 48 | 16.63 | 34.70 | 1.52 | 260 | 30 | 19.58 | 34.77 | 3.60 | 24.71 | 324 | 0.11 |
| 76 | 14.18 | 34.70 | 0.59 | 207 | 50 | 16.30 | 34.69 | 1.32 | 25.47 | 252 | 0.17 |
| 100 | 13.73 | 34.81 | 0.17 | 190 | 75 | 14.21 | 34.70 | 0.60 | 25.93 | 208 | 0.22 |
| 147 | 12.50 | 34.85 | 0.14 | 164 | 100 | 13.73 | 34.81 | 0.17 | 26.12 | 190 | 0.27 |
| 198 | 11.80 | 34.80 | 0.08 | 155 | 150 | 12.45 | 34.85 | 0.14 | 26.40 | 164 | 0.36 |
| 244 | 11.37 | 34.78 | 0.15 | 149 | 200 | 11.78 | 34.80 | 0.08 | 26.50 | 154 | 0.44 |
| 294 | 10.88 | 34.73 | 0.09 | 144 | 250 | 11.31 | 34.77 | 0.15 | 26.56 | 148 | 0.52 |
| 387 | 8.95 | 34.66 | 0.09 | 118 | 300 | 10.79 | 34.72 | 0.09 | 26.62 | 143 | 0.60 |
| 484 | 7.56 | 34.58 | 0.08 | 104 | 400 | 8.74 | 34.65 | 0.08 | 26.91 | 115 | 0.73 |
| 577 | 6.73 | 34.52 | 0.10 | 97 | 500 | 7.38 | 34.56 | 0.08 | 27.05 | 102 | 0.84 |
| 674 | 6.20 | 34.53 | 0.12 | 90 | 600 | 6.60 | 34.52 | 0.10 | 27.11 | 96 | 0.95 |
| 768 | 5.58 | 34.53 | 0.10 | 82 | 700 | 6.05 | 34.53 | 0.11 | 27.20 | 88 | 1.05 |
| 866 | 5.22 | 34.53 | 0.18 | 78 | 800 | 5.38 | 34.53 | 0.14 | 27.38 | 80 | 1.14 |
| 960 | 4.90 | 34.52 | 0.31 | 75 | 1000 | (4.70) | (34.52) | (0.38) | (27.35) | (74) | (1.30) |

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

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|----------|------|-------------|-------------------|-------------------|------------------|------|-------|---------------|------------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 82.47-S | II-6 | 1800 | 34°16.0' | 119°58.0' | 310 | var. | - | clear | rough | 11.80 | 33.42 |
| 83.40-S | 6 | 2240 | 34°13.0' | 118°21.5' | 12 | 300° | 3 | clear | slight | 12.44 | 33.43 |
| 83.51-S | 5 | 1845 | 33°52.5' | 120°05.5' | 25 | 320° | 8 | partly cloudy | rough | 11.98 | 33.54 |
| 87.50-S | 7 | 1130 | 33°20.0' | 119°40.0' | 40 | 350° | 2 | clear | moderate | 11.56 | 33.58 |
| 90.28-S | 9 | 1225 | 33°28.5' | 117°45.5' | 50 | 040° | 2 | clear | moderate | 13.08 | 33.56 |
| 93.27-S | 9 | 1620 | 32°56.0' | 117°19.0' | 50 | 040° | 1 | clear | slight | 12.97 | 33.64 |
| 97.30-S | 12 | 0025 | 32°15.5' | 117°09.0' | 28 | 310° | 4 | clear | moderate | 13.54 | 33.60 |
| 100.29-S | 12 | 0425 | 31°42.0' | 116°43.5' | 80 | 090° | 3 | clear | very rough | 12.12 | 33.59 |
| 103.30-S | 14 | 0905 | 31°05.5' | 116°25.0' | 41 | 320° | 4 | overcast | moderate | 12.42 | 33.54 |
| 107.32-S | 14 | 1320 | 30°26.0' | 116°11.0' | 365 | 340° | 3 | overcast | moderate | 13.02 | 33.55 |
| 110.33-S | 17 | 1735 | 29°50.0' | 115°52.0' | 30 | 050° | 2 | partly cloudy | rough | - | 33.56 |
| 117.26-F | 17 | 0230 | 28°55.5' | 114°40.5' | 39 | 300° | 3 | cloudy | rough | 13.30 | 33.56 |
| 117.30-F | 17 | 0425 | 28°47.5' | 114°55.5' | 51 | 330° | 4 | missing | rough | 13.28 | 33.57 |
| 117.35-F | 17 | 0645 | 28°38.5' | 115°18.0' | 115 | 330° | 4 | missing | rough | 13.98 | 33.67 |
| 120.25-F | 16 | 2220 | 28°23.0' | 114°14.5' | 29 | 290° | 3 | partly cloudy | moderate | 14.86a) | 33.64 |
| 120.30-F | 16 | 2003 | 28°13.5' | 114°34.0' | 50 | 280° | 3 | cloudy | moderate | 13.53 | 33.66 |
| 120.40-F | 16 | 1330 | 27°52.5' | 115°14.5' | 39 | 310° | 3 | cloudy | moderate | 13.34 | 33.79 |

a) Alternate value 15.04°C.

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

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|-----------|-------|-------------|-------------------|-------------------|------------------|------|-------|---------------|----------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 123.37-F | II-15 | 0320 | 27°24.0' | 114°40.0' | 36 | 350° | 4 | overcast | moderate | 14.06 | 33.75 |
| 127.34-F | 14 | 2245 | 26°55.5' | 114°06.0' | 41 | 280° | 3 | cloudy | moderate | 15.58 | 33.82 |
| 130.30-F | 13 | 1450 | 26°24.0' | 113°29.0' | 39 | 360° | 2 | partly cloudy | moderate | 15.64 | 33.86 |
| 133.25-F | 13 | 1000 | 26°04.5' | 112°48.0' | 45 | 280° | 2 | fog | calm | 15.19 | 33.73 |
| 137.23-F | 12 | 1340 | 25°34.0' | 112°19.0' | 42 | 320° | 1 | fog | missing | 15.08 | 33.86 |
| 140.30-F | 12 | 0815 | 24°45.0' | 112°24.0' | 60 | 330° | 2 | missing | moderate | 16.74 | 34.07 |
| 140.35-F | 12 | 0530 | 24°35.0' | 112°44.0' | 100 | 340° | 3 | missing | moderate | 16.55 | 33.87 |
| 143.26-F | 9 | 1655 | 24°19.0' | 111°48.0' | 30 | 320° | 2 | clear | moderate | 16.26 | 34.04 |
| 147.20-F | 9 | 1145 | 23°55.5' | 111°05.0' | 80 | 340° | 3 | clear | moderate | 18.18 | 34.63 |
| 147.30-F | 9 | 0610 | 23°37.0' | 111°40.0' | 175 | 340° | 5 | missing | moderate | 15.95 | 34.03 |
| 117G.65-B | 14 | 0115 | 28°47.0' | 112°10.0' | 13 | calm | | partly cloudy | calm | 13.76 | 35.05 |
| 118G.20-B | 14 | 0925 | 28°16.0' | 112°47.5' | 62 | 080° | 1 | clear | smooth | 14.83 | 35.14 |
| 118G.66-B | 13 | 2345 | 28°39.0' | 112°03.0' | 16 | 130° | 1 | clear | smooth | 14.88 | 35.16 |
| 119G.16-B | 14 | 1105 | 28°05.5' | 112°45.5' | 35 | calm | | clear | smooth | 14.98 | 35.16 |
| 120G.13-B | 14 | 1220 | 27°55.0' | 112°43.0' | 165 | 240° | 6 | clear | moderate | 15.32 | 35.17 |
| 120G.66-B | 13 | 2135 | 28°21.5' | 111°51.5' | 12 | 130° | 3 | clear | slight | 15.08 | 35.30 |

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

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|-------------|-------|-------------|-------------------|-------------------|------------------|------|-------|---------------|----------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 121G. 13-B | II-14 | 1355 | 27°46.5' | 112°37.5' | 260 | 240° | 1 | cloudy | slight | 15.58 | 35.23 |
| 121G. 55-B | 13 | 1750 | 28°07.5' | 111°56.5' | 220 | calm | | clear | slight | 14.66 | 35.10 |
| 121G. 70-B | 13 | 1940 | 28°15.0' | 111°42.0' | 33 | calm | | clear | slight | 15.33 | 35.26 |
| 121G. 74-B | 13 | 2010 | 28°17.0' | 111°38.0' | 17 | 120° | 1 | clear | slight | 15.28 | 35.19 |
| 122G. 16-B | 14 | 1540 | 27°39.5' | 112°28.5' | 220 | 180° | 1 | cloudy | slight | 15.74 | 35.21 |
| 123G. 30-B | 13 | 0920 | 27°37.5' | 112°10.0' | 600 | 300° | 1 | clear | calm | 15.84 | 35.23 |
| 124G. 21-B | 14 | 1755 | 27°24.5' | 112°13.0' | 260+ | 180° | 1 | cloudy | slight | 15.84 | 35.21 |
| 125G. 30-B | 13 | 0725 | 27°20.5' | 111°59.0' | 800 | 270° | 1 | clear | calm | 16.22 | 35.30 |
| 126G. 24-B | 15 | 0620 | 27°08.5' | 111°59.0' | 90 | calm | | missing | calm | 16.84 | 35.28 |
| 126G. 101-B | 11 | 2315 | 27°46.5' | 110°45.0' | 17 | 300° | 4 | clear | moderate | 14.33a) | 34.98 |
| 127G. 22-B | 15 | 0810 | 26°59.0' | 111°55.0' | 34 | calm | | missing | calm | 16.78 | 35.28 |
| 127G. 30-B | 13 | 0455 | 27°03.0' | 111°47.5' | 510 | 270° | 1 | missing | calm | 16.95 | 35.30 |
| 127G. 55-B | 13 | 0025 | 27°15.5' | 111°23.0' | 1000 | 300° | 1 | overcast | slight | 16.66 | 35.26 |
| 127G. 94-B | 11 | 2150 | 27°34.5' | 110°46.5' | 25 | 300° | 4 | clear | rough | 15.57 | 35.19 |
| 128G. 27-B | 16 | 0048 | 26°53.0' | 111°44.5' | 240 | calm | | partly cloudy | calm | 17.01b) | 35.24 |
| 129G. 31-B | 16 | 0210 | 26°46.0' | 111°35.5' | 300 | 110° | 1 | partly cloudy | calm | 17.08 | 35.28 |

a) Alternate value, 14.14°C.

b) Alternate value, 16.81°C.

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

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|-------------|-------|-------------|-------------------|-------------------|------------------|------|-------|----------|------------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 129G. 89-B | II-11 | 1835 | 27°15.0' | 110°40.5' | 260+ | 300° | 4 | clear | moderate | 14.56 | 35.08 |
| 131G. 31-B | 16 | 0415 | 26°29.0' | 111°24.0' | 260 | 160° | 1 | missing | calm | 16.95 | 35.26 |
| 131G. 94-B | 11 | 1600 | 27°00.5' | 110°23.5' | 47 | 320° | 3 | clear | moderate | 14.99 | 35.08 |
| 132G. 29-B | 16 | 0535 | 26°19.0' | 111°21.0' | 260+ | calm | | missing | calm | 16.75 | 35.25 |
| 133G. 27-B | 16 | 0720 | 26°09.5' | 111°16.0' | 50 | calm | | missing | calm | 17.02 | 35.28 |
| 133G. 55-B | 11 | 0300 | 26°25.5' | 110°50.0' | 1430 | 330° | 7 | clear | very rough | 16.70 | 35.23 |
| 133G. 85-B | 11 | 1010 | 26°38.5' | 110°21.5' | 650 | 330° | 4 | clear | very rough | 17.00 | 35.16 |
| 133G. 100-B | 11 | 1215 | 26°46.0' | 110°07.0' | 35 | 300° | 4 | clear | moderate | 14.64 | 35.05 |
| 133G. 105-B | 11 | 1325 | 26°48.5' | 110°02.0' | 17 | 300° | 3 | clear | slight | 14.21 | 35.01 |
| 134G. 20-B | 16 | 0900 | 25°57.5' | 111°18.0' | 180 | calm | | missing | calm | 17.62 | 35.28 |
| 134G. 40-B | 10 | 2125 | 26°07.5' | 110°59.0' | 350 | 340° | 6 | clear | very rough | 16.80 | 35.28 |
| 135G. 35-B | 10 | 1900 | 25°56.0' | 110°58.5' | 510 | 340° | 5 | clear | very rough | 17.41 | 35.28 |
| 136G. 20-B | 16 | 1105 | 25°40.0' | 111°07.5' | 120 | 200° | 5 | missing | slight | 17.65 | 35.18 |
| 137G. 30-B | 9 | 2035 | 25°36.0' | 110°52.0' | 350 | 330° | 6 | clear | very rough | 17.58 | 35.26 |
| 138G. 20-B | 16 | 1330 | 25°22.5' | 110°56.0' | 270 | 150° | 2 | overcast | smooth | 17.84 | 35.17 |
| 139G. 22-B | 9 | 1715 | 25°15.0' | 110°49.0' | 400 | 330° | 6 | clear | very rough | 17.94 | 35.17 |
| 139G. 40-B | 9 | 1445 | 25°24.0' | 110°31.5' | 660 | 330° | 6 | clear | very rough | 17.39 | 35.17 |
| 139G. 55-B | 9 | 1145 | 25°31.0' | 110°18.5' | 1100 | 320° | 5 | missing | very rough | 17.22 | 35.24 |
| 139G. 100-B | 9 | 0340 | 25°54.0' | 109°34.5' | 14 | 360° | 2 | clear | slight | 16.61 | 35.07 |

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

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|-------------|-------|-------------|-------------------|-------------------|------------------|------|-------|---------------|----------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 140G. 20-B | II-16 | 1550 | 25°05.5' | 110°45.5' | 260+ | 290° | 2 | overcast | slight | 18.22 | 35.25 |
| 141G. 29-B | 16 | 1755 | 25°01.0' | 110°31.5' | 260+ | - | 1 | overcast | calm | 17.84 | 35.19 |
| 141G. 96-B | 9 | 0045 | 25°34.5' | 109°27.0' | 275 | 320° | 3 | clear | moderate | 18.18 | 35.10 |
| 142G. 24-B | 16 | 1900 | 24°50.0' | 110°30.5' | 260+ | 180° | 2 | overcast | slight | 18.66a) | 35.26 |
| 143G. 15-B | 16 | 2035 | 24°37.0' | 110°33.5' | 225 | 160° | 2 | overcast | smooth | 18.56b) | 35.23 |
| 143G. 100-B | 8 | 2230 | 25°19.0' | 109°13.0' | 58 | 320° | 4 | clear | slight | 18.04 | 34.91 |
| 144G. 15-B | 16 | 2210 | 24°28.0' | 110°28.0' | 90 | - | - | overcast | smooth | 18.84c) | 35.27 |
| 145G. 30-B | 17 | 2350 | 24°27.0' | 110°08.5' | 260+ | 010° | 3 | partly cloudy | moderate | 17.86 | 35.23 |
| 145G. 55-B | 8 | 1000 | 24°39.5' | 109°45.0' | 860 | 330° | 4 | clear | rough | 18.28 | 35.21 |
| 145G. 85-B | 8 | 1540 | 24°55.0' | 109°17.5' | 1000 | 320° | 3 | partly cloudy | moderate | 19.02 | 35.23 |
| 145G. 100-B | 8 | 1800 | 25°02.5' | 109°02.5' | 45 | 310° | 3 | clear | slight | 15.98 | 34.96 |
| 145G. 115-B | 8 | 1920 | 25°09.5' | 108°48.0' | 12 | 290° | 2 | clear | slight | 16.14 | 35.08 |
| 147G. 32-B | 18 | 0200 | 24°10.5' | 109°56.0' | 150 | 320° | 3 | missing | moderate | 18.16 | 35.23 |
| 147G. 42-B | 8 | 0435 | 24°15.5' | 109°46.5' | 950 | 340° | 4 | cloudy | moderate | 18.28 | 35.20 |
| 149G. 34-B | 18 | 0430 | 23°54.5' | 109°43.5' | 260+ | 330° | 4 | clear | moderate | 18.30 | 35.20 |

a) Alternate value 18.54°C.

b) Alternate value 18.42°C.

c) Alternate value 18.67°C.

| Station | Date | Time GCT | Latitude North | Longitude West | Sounding (fm) | Wind | | Weather | Sea | 10 Meters | |
|-------------|------|-------------|-------------------|-------------------|------------------|------|-------|----------|----------|-----------|-------|
| | | | | | | Dir | Force | | | T | S |
| 149G. 40-B | II-8 | 0125 | 23°57.5' | 109°38.0' | 620 | 340° | 4 | cloudy | moderate | 18.40 | 35.16 |
| 151G. 37-B | 18 | 0705 | 23°38.5' | 109°30.5' | 50 | 320° | 4 | clear | moderate | 18.62 | 34.99 |
| 151G. 55-B | 7 | 2040 | 23°47.5' | 109°13.5' | 1330 | 320° | 4 | cloudy | slight | 20.02 | 34.88 |
| 151G. 85-B | 7 | 1535 | 24°02.5' | 108°45.0' | 1030 | 300° | 3 | cloudy | moderate | 20.06 | 34.80 |
| 151G. 115-B | 7 | 1110 | 24°17.5' | 108°16.5' | 520 | 270° | 2 | clear | smooth | 19.53 | 34.67 |
| 151G. 130-B | 7 | 0900 | 24°25.0' | 108°02.5' | 26 | 300° | 2 | clear | slight | 18.91 | 34.78 |
| 153G. 35-B | 18 | 0935 | 23°20.0' | 109°21.0' | 560 | 300° | 4 | clear | moderate | 19.32 | 34.92 |
| 153G. 137-B | 7 | 0605 | 24°11.0' | 107°45.5' | 32 | 310° | 1 | clear | slight | 18.34 | 34.74 |
| 154G. 15-B | 18 | 1200 | 23°01.5' | 109°34.0' | 170 | calm | | clear | calm | 19.16 | 34.96 |
| 155G. 144-B | 7 | 0345 | 23°57.0' | 107°28.5' | 40 | 290° | 1 | overcast | slight | 19.68 | 34.60 |
| 157G. 25-B | 6 | 0605 | 22°41.0' | 109°07.0' | 1800 | 360° | 1 | clear | smooth | 19.46 | 35.08 |
| 157G. 55-B | 6 | 1130 | 22°56.5' | 108°34.5' | 1600 | 330° | 2 | clear | slight | 19.02 | 35.02 |
| 157G. 85-B | 6 | 1530 | 23°10.5' | 108°12.5' | 1550 | 330° | 1 | cloudy | smooth | 20.58 | 34.67 |
| 157G. 115-B | 6 | 2030 | 23°25.5' | 107°45.0' | 975 | 330° | 1 | cloudy | slight | 21.07 | 34.88 |
| 157G. 150-B | 7 | 0110 | 23°43.0' | 107°12.0' | 45 | 290° | 1 | overcast | slight | - | 34.61 |

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