PHYSICAL OCEANOGRAPHIC, BIOLOGICAL, AND CHEMICAL DATA—SOUTH ATLANTIC COAST OF THE UNITED STATES

Gill Cruise 2

SPECIAL SCIENTIFIC REPORT—FISHERIES No. 198

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
PHYSICAL OCEANOGRAPHIC, BIOLOGICAL, AND CHEMICAL DATA
SOUTH ATLANTIC COAST OF THE UNITED STATES
THEODORE N. GILL CRUISE 2

By

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Special Scientific Report--Fisheries No. 198

Washington, D. C.
December 1956
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PHYSICAL OCEANOGRAPHIC, BIOLOGICAL, AND CHEMICAL DATA
SOUTH ATLANTIC COAST OF THE UNITED STATES
M/V THEODORE N. GILL CRUISE 2

This is the second in a series of reports presenting basic data from cruises of the Theodore N. Gill in waters off the South Atlantic Coast of the United States.

Background of the investigations; objectives; procedures on station; and chemical, biological and oceanographic methods and procedures were presented in the report for cruise 1 (Anderson, Gehringer, and Cohen, 1956). The basic station plan is shown in figure 1.

NARRATIVE ACCOUNT OF CRUISE 2

The Theodore N. Gill departed from Brunswick, Georgia, on April 16, 1953, and proceeded to special station 5. Hourly bathythermograph observations were made while enroute, except when passing through the Gulf Stream and the Antilles Current when BT lowerings were made every half hour. Special station 5 was reached on April 17 and after occupying special stations 6 to 8, the vessel arrived at the standard station on April 19. Thirty-two hours were spent on standard station, during which time 10 Nansen-bottle casts were accomplished at intervals of about 2 hours --9 casts to 700 meters and 1 to 4,000 meters. Bathythermograph observations, Secchi-disc readings during daylight casts, routine meteorological observations, and special plankton tows for deep scattering layer studies were made in addition.

Observations on standard station were terminated on April 20, and after calling in Nassau, B.W.I., for medical care to a member of the personnel, the vessel proceeded to regular station 1, arriving on April 22. From this date to April 28 the Gill occupied all regular stations of the southern leg (1 through 34) and special station 9. The vessel returned to Brunswick on April 28 for supplies.

The Gill departed on May 4 from Brunswick on the northern leg of the cruise, and occupied all but 3 of regular stations 35 to 80, and special stations 1 through 4 during the period May 4-14. The vessel returned to Brunswick on May 15. Cruise track is given in figure 2.

Nansen casts were made on all regular and special stations (fig. 3). Bottom-sediment samples were obtained on a large number of the stations with the modified orange-peel dredge. A Phleger corer proved ineffective on the types of bottom encountered. Water samples were collected on each station for analysis of salinity, nitrate, carbohydrates, inorganic phosphate, total phosphorus, and proteins. Oxygen determinations were made aboard vessel. Bathythermograph and associated meteorological observations were taken on station and at hourly or half-hourly intervals between stations as conditions permitted. Oblique plankton tows were taken on each station with a half-meter silk net, and the continuous plankton sampler was operated over most of the cruise route. Feather jigs were trolled between stations, and bottom fishing was conducted on some shallow stations. Dip-netting was conducted both at night under searchlights and during the day (fig. 4).

Scientific personnel participating in the cruise included:

I. Southern Leg
U. S. Fish and Wildlife Service and Cooperators:

W. W. Anderson Chief Scientist
F. T. Knapp Biologist (Georgia Game & Fish Comm.)
G. F. Arata, Jr. Biologist (Florida State Board of Conservation)
V. L. Strock Administrative Assistant
Figure 1.—Basic station plan.
Figure 2.--Track chart.
Figure 3. -- Attaching Nansen bottle to cable on hydrographic cast.
Figure 4. -- Dip-netting for larval and juvenile fish.
Navy Hydrographic Office:

E.K. Stanton  Senior Oceanographer
G. Hammond  Oceanographer
C.W. Backus  Technician

Office of Naval Research:

S. R. Galler  Head Biologist

II. Northern Leg

U.S. Fish and Wildlife Service and Cooperators:

W.W. Anderson  Chief Scientist
F.T. Knapp  Biologist (Georgia Game & Fish Comm.)
G.F. Arata, Jr.  Biologist (Florida State Board of Conservation)
C.C. Bryant  Chemical Aid

Navy Hydrographic Office:

E.K. Stanton  Senior Oceanographer
G. Hammond  Oceanographer
E.G. Smithwick  Oceanographer
C.W. Backus  Technician

EXPLANATION OF DATA SHEETS AND TABLES
Oceanographic and Chemical

Each of the items appearing on the station data pages is explained below. All doubtful data are indicated and were not used in the construction of the curves from which the interpolated values (standard depth values) were derived. Observed values which were obviously false were omitted entirely. A dash in a table means that no value was available. Interpolations for standard depth values for temperature, salinity, sigma-t, and oxygen were IBM calculations; those for the chemical constituents were derived from straight lines between observed values.

The profiles of salinity, temperature, and density were prepared from these data, and appear as figures 5-20.

1. **Cruise Number.** The first cruise over the established station pattern (fig. 1) was numbered Gill 1, and subsequent cruises, Gill 2 through Gill 9 (only Gill 2 is covered by the present report).

2. **Station Number.** Stations are numbered consecutively, starting with one, at the beginning of each cruise. The station pattern and numbers as shown in figure 1 were maintained on each cruise. If a station or series of stations was not occupied, these station numbers are omitted. Regular stations have numbers only; standard and special stations are specifically indicated.

3. **Date.** Month, day, and year are given.

4. **Latitude and Longitude.** The position of the station is given in degrees and minutes.

5. **Time.** Given in Greenwich mean time and is that hour nearest to the start of the first cast.

6. **Depth.** Is the observed uncorrected sonic sounding for the station, recorded in meters.

7. **Wind.** Wind speed is given in meters per second. Direction from which the wind blows is coded in degrees true to the nearest ten degrees. The last zero is omitted. North is 360 on this scale and calm is 00. See table 1, "Compass Direction Conversion Table for Wind, Sea, and Swell Directions."

8. **Barometer.** The barometric pressure is coded in millibars, neglecting the 900 or 1,000. Thus 996 millibars is coded as 96 and 1008 millibars is coded as 08.

9. **Air Temperature.** Dry-bulb and wet-bulb temperatures are entered to the nearest tenth of a degree (centigrade).

10. **Humidity.** The percent of humidity is coded directly.
11. Weather. Weather is coded as indicated in table 2, "Numerical Weather Codes - Present Weather."

12. Clouds. Cloud type and amount are coded as indicated in table 3, "Cloud Type"; and table 4, "Cloud Amount."

13. Sea. Sea direction and amount are coded as indicated in table 5, "Sea Amount"; and table 1.

14. Swell. Swell directions and amount are coded as indicated in table 6, "Swell Amount"; and table 1.

15. Visibility. Visibility is coded as indicated in table 7, "Visibility."

16. Water Transparency. Given as meters to which a Secchi disc is visible.

Subsurface Observations

1. Sample Depth. Observed (actual) depth of each sample is given in meters. Interpolated values at standard depths are also given. The standard depths in meters are: 0, 10, 20, 30, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 1000, 1200, 1500, 2000, 2500, 3000, and hence every 1000 meters.

2. Temperature. The centigrade temperature is given in degrees and hundredths.

3. Salinity. Salinity is given in parts per thousand to two decimal places.

4. Sigma-t. To convert to density divide by 1000 and add 1. Thus, a sigma-t value of 22.35 converts to a density of 1.02235.

5. Dissolved Oxygen. These values are given in milliliters per liter to two decimal places.

6. Total Phosphorus. Values are given in microgram atoms per liter to the nearest 0.1 unit.

7. Inorganic Phosphate. Values are given in microgram atoms per liter to the nearest 0.1 unit.

8. Nitrate-nitrite. These values are given in microgram atoms per liter to the nearest 0.5 unit.

9. Carbohydrates (Arabinose). These values are given in terms of milligrams per liter to the nearest 0.1 unit. Collier et al. (1953) presented a technique for estimating certain elements of the organic materials in sea water which react to the test for carbohydrates. The carbohydrate values are given as arabinose equivalents, and are not necessarily the actual concentrations of carbohydrate substances.

10. Proteins (Tyrosine). These values are given to the nearest 0.1 unit as milligrams per liter of protein material in sea water, which reacts to the test for tyrosine.

Biological

1. Plankton volumes (half-meter silk net), table 8. The position given is that at beginning of the tow. The depth of the haul is given from 0 to the greatest depth reached. The volumes as given are "wet volumes" (procedures for determination were given under methods in report for cruise I). Very few samples contained large organisms such as jellyfish (which were removed), so that the volumes represent smaller organisms.

2. Numbers of plankton organisms per cubic meter of water (half-meter net), table 9. The procedures for plankton tows, methods for sorting and counting, and calculations of numbers of organisms were described under methods in report for cruise 1. Counts are given for major groups as indicated.

3. Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), table 10. Description of this
Numbers and species of fish taken by trolling, table 11. The stage of gonad development is based on International Council classifications of gonad maturity for the herring (International Council Rapports et Proces-Verbaux des Reunions, Vol. LXXIV, pp. 117, March 1931). The scale is only a guide to general classifications and must be treated as such.

This scale follows:

Stage I. Virgin individuals. Very small sexual organs close under vertebral column. Wine-coloured torpedo-shaped ovaries about 2-3 cm. long and 2-3 mm. thick. Eggs invisible to naked eye. Whitish or grayish brown knife-shaped testes 2-3 cm. long and 2-3 mm. broad.

Stage II. Maturing virgins or recovering spents. Ovaries somewhat longer than half the length of ventral cavity, about 1 cm. diameter. Eggs small but visible to naked eye. Milt whitish, somewhat bloodshot, same size as ovaries, but still thin and knife-shaped.

Stage III. Sexual organs more swollen, occupying about half of ventral cavity.

Stage IV. Ovaries and testes nearly filling 2/3 of ventral cavity. Eggs not transparent, milt whitish, swollen.

Stage V. Sexual organs filling ventral cavity. Ovaries with some large transparent eggs. Milt white, not yet running.

Stage VI. Roe and milt running (spawning).

Stage VII. Spents. Ovaries slack with residual eggs. Testes baggy, bloodshot. Doubtful cases are indicated by quoting two stages e.g. "St. I-II, St. VII-II," etc.

Numbers and species of fish taken by dip-net, table 12. There is shown, by family, the genera and species taken. Numbers of specimens from each station are given in parentheses, followed by the approximate size or size range of standard length, in millimeters.

ACKNOWLEDGMENTS

Acknowledgment is made to the following agencies and individuals for contributions in securing and processing the material presented. To the Navy Hydrographic Office for their cooperation in planning and executing the field program and for processing the physical oceanographic data. To the Office of Naval Research and Dr. Sidney R. Galler in particular, for help in planning and executing the field program. To the Georgia Game and Fish Commission for their cooperation in the biological and chemical studies; through Frank T. Knapp, biologist and Joseph L. Moore, chemist. To the Florida State Board of Conservation (through the Marine Laboratory of the University of Miami) for their cooperation in the biological studies, through George F. Arata, Jr., biologist. To Dean F. Bumpus of the Woods Hole Oceanographic Institution for preparation of the salinity, temperature, and density profiles which appear as figures 5-20.

From our own staff special recognition is due Frederick H. Berry for identification of dip-net and stomach content material, and to Hugh M. Fields for plankton organism counts. We appreciate the assistance of other members of the staff who aided in one way or another: Charles P. Goodwin, Clyde C. Bryant, Herbert R. Gordy, Charlie B. Casper, and Elizabeth H. Swindell. Acknowledgment is also made of the excellent cooperation of crew members of the M/V Theodore N. Gill, and Captain Mauritz C. Fredricksen in particular.
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1954.  

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1952.  

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Fraser-Brunner, A.

Ginsburg, Isaac.

Gurney, Robert.


Table 1.—Compass direction conversion table for wind, sea, and swell directions

<table>
<thead>
<tr>
<th>Code</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Calm</td>
</tr>
<tr>
<td>01</td>
<td>5° to 14°</td>
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<tr>
<td>02</td>
<td>15° to 24° NNE</td>
</tr>
<tr>
<td>03</td>
<td>25° to 34°</td>
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<tr>
<td>04</td>
<td>35° to 44°</td>
</tr>
<tr>
<td>05</td>
<td>45° to 54° NE</td>
</tr>
<tr>
<td>06</td>
<td>55° to 64°</td>
</tr>
<tr>
<td>07</td>
<td>65° to 74° ENE</td>
</tr>
<tr>
<td>08</td>
<td>75° to 84°</td>
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<td>09</td>
<td>85° to 94° E</td>
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<td>95° to 104°</td>
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<td>105° to 114° ESE</td>
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<td>12</td>
<td>115° to 124°</td>
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<td>125° to 134°</td>
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<td>14</td>
<td>135° to 144° SE</td>
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<td>15</td>
<td>145° to 154°</td>
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<td>16</td>
<td>155° to 164° SSE</td>
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<td>17</td>
<td>165° to 174°</td>
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<td>18</td>
<td>175° to 184° S</td>
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<td>195° to 204° SSW</td>
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<td>205° to 214°</td>
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<td>22</td>
<td>215° to 224°</td>
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<td>23</td>
<td>225° to 234° SW</td>
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<td>235° to 244°</td>
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<td>25</td>
<td>245° to 254° WSW</td>
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<td>255° to 264°</td>
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<td>265° to 274° W</td>
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<td>285° to 294° WNW</td>
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<td>295° to 304°</td>
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<td>305° to 314°</td>
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<td>32</td>
<td>315° to 324° NW</td>
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<td>33</td>
<td>325° to 334°</td>
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<td>34</td>
<td>335° to 344° NNW</td>
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<td>35</td>
<td>345° to 354°</td>
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<td>36</td>
<td>355° to 4° N</td>
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<td>Code</td>
<td>Condition Description</td>
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<tr>
<td>00</td>
<td>Cloud development NOT observed or NOT observable during past hour.</td>
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<tr>
<td>01</td>
<td>Clouds generally dissolving or becoming less developed during past hour.</td>
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<tr>
<td>02</td>
<td>Sunlight visible, no thunder heard.</td>
</tr>
<tr>
<td>03</td>
<td>Snow, sleet, rain, snow, or rain mixed.</td>
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<tr>
<td>04</td>
<td>Visibility reduced by smoke.</td>
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<td>05</td>
<td>Precipitation within sight, reaching the ground in a heavy rain or snow storm.</td>
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<td>06</td>
<td>Snow, sleet, or rain.</td>
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<td>07</td>
<td>Thunder heard but no precipitation at station.</td>
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<tr>
<td>08</td>
<td>Thunderstorm without hail, but with rain and snow.</td>
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<td>09</td>
<td>Clouds generally dissolving or becoming less developed during past hour.</td>
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<tr>
<td>10</td>
<td>Fog, sleet, or rain.</td>
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<td>11</td>
<td>Rainfall or sleetfall.</td>
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<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>86</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>87</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>88</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>89</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>90</td>
<td>Snow, sleet, or rain.</td>
</tr>
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<td>91</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>92</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>93</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>94</td>
<td>Snow, sleet, or rain.</td>
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<tr>
<td>95</td>
<td>Snow, sleet, or rain.</td>
</tr>
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<td>96</td>
<td>Snow, sleet, or rain.</td>
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<tr>
<td>97</td>
<td>Snow, sleet, or rain.</td>
</tr>
<tr>
<td>98</td>
<td>Snow, sleet, or rain.</td>
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</table>
| 99   | Snow, sleet, or rain.
### Table 3.—Cloud type

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<tr>
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<td>Cirrostratus</td>
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<td>Cirrocumulus</td>
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<td>Altocumulus</td>
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<tr>
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<td>Altostratus</td>
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<td>Stratuscumulus</td>
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<tr>
<td>7</td>
<td>Nimbostratus</td>
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<tr>
<td>8</td>
<td>Cumulus or Fractocumulus</td>
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<td>Cumulonimbus</td>
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### Table 4.—Cloud amount

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<td>2/10 and 3/10</td>
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<td>4/10</td>
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<td>8</td>
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<td>3 to 5</td>
<td>Moderate</td>
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<td>4</td>
<td>5 to 8</td>
<td>Rough</td>
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<tr>
<td>5</td>
<td>8 to 12</td>
<td>Very rough</td>
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<td>6</td>
<td>12 to 20</td>
<td>High</td>
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<td>7</td>
<td>20 to 40</td>
<td>Very high</td>
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<td>8</td>
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<td>Mountainous</td>
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<td>Very rough confused sea</td>
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Table 6.--Swell amount

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<td>Long</td>
<td>Short or Average</td>
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<td>Short</td>
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<td>4</td>
<td>6 to 12</td>
<td>Moderate Average</td>
<td>300 to 600</td>
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<td>5</td>
<td>Long</td>
<td>Short</td>
<td>0 to 300</td>
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<td>Greater than 12</td>
<td>High Average</td>
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<td>Short</td>
<td>Long</td>
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Table 7. Visibility

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<td>Fog</td>
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<td>Moderate fog</td>
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<td>Thin fog or mist</td>
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<td>Visibility moderate</td>
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<td>8</td>
<td>Visibility very good</td>
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<td>Visibility excellent</td>
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<td>Position</td>
<td>Time (EST)</td>
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<td>------------</td>
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<tr>
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<tr>
<td>2</td>
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<tr>
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<td>27° 01'</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
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<td>6</td>
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<td>7</td>
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<td>41</td>
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Table 8.—Plankton volumes (half-meter silk net)
Table 8.—Plankton volumes (half-meter silk net), cont'd

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<th>N. Lat. W. Long.</th>
<th>(1953) Date</th>
<th>Time (EST)</th>
<th>Vol. water strained (m³)</th>
<th>Depth of haul in meters</th>
<th>Vol. per m³ strained (ml)</th>
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<td>0938 0959</td>
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<td>46</td>
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<td>1214 1235</td>
<td>114.7</td>
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<td>0.087</td>
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<td>1459 1521</td>
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<td>1319 1348</td>
<td>206.4</td>
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<td>1614 1635</td>
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<td>0807 0832</td>
<td>214.7</td>
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<td>0.039</td>
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<td>2350 0016</td>
<td>199.5</td>
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<td>0044 0107</td>
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Table 9.--Numbers of plankton organisms per cubic meter of water (half-meter net)

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<th>Reg. 6</th>
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Subtotal: 26940 91.0 145.8 328.6 158.5 149.4 142.0 128.0

Fish Eggs: 2 0.09 3.44 3.76 1.73 0.01 0.07 0.04
Fish Larvae: 186 0.45 1.64 1.13 0.69 0.27 1.23 0.72

Total: 27128 91.5 150.9 333.5 160.9 149.7 143.3 128.8

* Total number of organisms in sample, water volume not determined
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Fish Eggs           | <0.01   | 0.01    | 15.94   | 22.54   | 3.11    | 7.59    | 83.35   | 46.15   |

Fish Larvae         | 0.83    | 0.60    | 5.20    | 1.50    | 0.51    | 1.17    | 0.73    | 2.38    |

Total               | 109.0   | 332.5   | 557.1   | 394.8   | 377.4   | 1482.1  | 360.0   | 523.4   |
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Fish Larvae     | 0.68   | 1.83   | 8.24   | 0.31   | 0.52   | 1.19   | 2.66   | 1.04   |

Total           | 151.8  | 418.6  | 537.3  | 514.7  | 254.5  | 342.5  | 304.5  | 606.4  |
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**Subtotal** | **426.4** | **286.4** | **937.7** | **639.2** | **1282.1** | **656.8** | **277.3** | **2574.2** |

**Fish Eggs** | 0.04 | 0.23 | 32.37 | 29.53 | 18.38 | 13.67 | 2.43 | 17.50 |
**Fish Larvae** | 1.42 | 0.48 | 2.99 | 1.28 | 2.09 | 0.85 | 0.16 | 2.40 |

**Total** | **427.9** | **287.1** | **973.1** | **670.0** | **1302.6** | **671.3** | **279.9** | **2594.1** |
Table 9.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

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Subtotal        | 152.2  | 100.8  | 35.9   | 36.5   | 98.8   |

Fish Eggs       | 0.01   | 0.04   | 0.01   | <0.01  | 0.16   |
Fish Larvae     | 0.38   | 0.45   | 0.22   | 0.31   | 0.88   |

Total           | 152.6  | 101.3  | 36.1   | 36.8   | 99.8   |
Table 10.—Numbers of plankton organisms per cubic meter of water (continuous plankton sampler)

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Run No. 4 | Date April 22-23, 1953

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Table 10.—Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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| Total    |               | 56.7 39.6 17.0 70.8 39.6 45.4 31.1 28.2 | 6.5 3.2 3.2 6.5 6.5 19.4 - | - - - - - | 5.7 2.8 - 11.3 - | - - - - - | 42.0 45.2 71.1 87.2 19.4 19.4 22.6 3.2 | - - - - - | 19.4 12.9 6.5 6.5 3.2 3.2 3.2 6.5 | - - - - - | 100.2 116.3 148.7 145.4 61.3 77.5 58.2 35.5 |
Table 10.-Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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Run No. 8 Date April 24, 1953

|         |          |                |
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
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| Position of (N. Lat.) | 28°20' | 28°18' | 28°20' | 28°20' | 28°24' | 28°31' | 28°37' | 28°41' |
| Ship: (W. Long.) | 80°04' | 80°10' | 80°20' | 80°32' | 80°30' | 80°26' | 80°22' | 80°26' |
| Protozoa | 3.2 | 3.2 | - | - | 6.4 | 6.4 | 16.0 | 9.6 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | - | - | 9.6 | 9.6 | 25.7 | 3.2 | - | - |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 22.5 | 83.5 | 44.9 | 12.8 | 54.6 | 96.3 | 77.0 | 77.0 |
| Ostracoda | - | - | - | - | - | 3.2 | - | - |
| Amphipoda | - | - | - | 3.2 | 22.5 | 22.5 | 19.3 | - |
| Shrimp | - | - | 3.2 | 3.2 | 15.1 | 51.4 | 32.1 | 3.2 |
| Crabs | - | - | - | - | 51.4 | 32.1 | 22.5 | - |
| Misc. Crustaceans | - | 3.2 | 6.4 | 3.2 | 3.2 | 25.7 | 28.9 | - |
| Mollusca | - | - | - | - | - | - | 22.5 | - |
| Invertebrate Eggs | 6.4 | 22.5 | - | - | - | - | 9.6 | - |
| Misc. Organisms | 9.6 | - | 3.2 | 3.2 | 41.7 | 35.3 | 25.7 | - |
| Subtotal | 41.7 | 109.2 | 48.1 | 35.2 | 150.9 | 250.4 | 221.4 | 166.9 |
| Fish Eggs | 3.2 | 32.1 | - | - | - | 9.6 | 22.5 | 12.8 |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 44.9 | 141.3 | 48.1 | 35.2 | 150.9 | 260.0 | 243.9 | 179.7 |
### Table 10. --Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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<td><strong>Fish Eggs</strong></td>
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<tr>
<td><strong>Fish Larvae</strong></td>
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<tr>
<td><strong>Chaetognatha</strong></td>
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<td><strong>Misc. Worms</strong></td>
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<td>-</td>
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<td><strong>Copepoda</strong></td>
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<td><strong>Amphipoda</strong></td>
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<td><strong>Shrimp</strong></td>
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<td>-</td>
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<tr>
<td><strong>Crabs</strong></td>
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<td><strong>Misc. Crustaceans</strong></td>
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36
Table 10. -- Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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<td>Coelenterata</td>
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<td>-</td>
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<tr>
<td>Chaetognatha</td>
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<td>Misc. Worms</td>
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Table 10. Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

Run No. 19 Date May 5, 1953

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<td>80°00'</td>
<td>80°49'</td>
<td>79°41'</td>
<td>79°34'</td>
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Protozoa 4.0 - - 7.9 7.9
Coelenterata - 7.9 - - 7.9 7.9
Chaetognatha 7.9 4.0 - - - -
Misc. Worms - - - 4.0 - - -

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<td>1045</td>
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<td>1430</td>
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Position of
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Protozoa - - - - - - -
Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

<table>
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<td>1141</td>
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Position of
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Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

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Position of
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Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

<table>
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Position of
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Protozoa - - - - - - -
Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

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Position of
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Protozoa - - - - - - -
Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

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Position of
ship:

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Protozoa - - - - - - -
Coelenterata - - - - - - -
Chaetognatha 3.1 - 3.1 - - - -
Misc. Worms - - - - - - -

Subtotal

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Subtotal

<p>| | | |
|                |            |            |
| Protozoa       | 110.8      | 24.9       |
| Coelenterata   | 111.0      | 37.4       |
| Chaetognatha   | 75.2       | 40.5       |
| Misc. Worms    | 39.6       | 31.2       |
| Copepoda       | 103.0      | 25.0       |
| Ostracoda      | 253.4      | 37.4       |
| Amphipoda      | 281.2      | 34.3       |
| Shrimp         | 269.3      | 31.2       |
| Crabs          | 301.0      | 15.6       |
| Misc. Crustaceans |        | 43.7       |
| Mollusca       |            | 15.6       |
| Invertebrate Eggs |        | 43.6       |
| Misc. Organisms |            | 43.7       |
|                | 118.7      | 24.9       |
| Fish Eggs      | 146.7      | 37.4       |
| Fish Larvae    | 75.2       | 40.5       |
|                | 166.4      | 31.2       |
|                | 356.3      | 37.4       |
|                | 336.7      | 40.5       |
|                | 340.7      |            |
|                | 352.5      |            |</p>
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### Table 10. - Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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### Table 10.--Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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Subtotal          | 237.1 | 1075.7 | 553.2 | 382.0 | 641.0 | 1167.8 | 917.6 | 728.9 |

#### Fish Eggs
- 8.8 43.9 43.9 13.2 4.4 17.6 13.2 22.0

#### Fish Larvae

Total               | 245.9 | 1119.6 | 597.1 | 395.2 | 645.4 | 1185.4 | 930.8 | 750.9 |

### Run No. 28 Date May 8, 1953

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Subtotal          | 409.2 | 291.4 | 313.1 | 223.2 | 418.5 | 623.1 | 443.3 | 151.9 |

#### Fish Eggs
- 6.2 12.4 3.1 - 24.8 24.8 21.7 27.9

#### Fish Larvae

Total               | 415.4 | 303.8 | 316.2 | 223.2 | 443.3 | 647.9 | 465.0 | 179.8 |
Table 10.--Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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Subtotal | 169.0     | 69.8          | 61.6       | 45.2                  | 131.5         | 184.9    | 176.7       | 148.0       |

Fish Eggs | 20.6      | 28.8          | -          | -                     | -             | -       | -           | 8.2         |
Fish Larvae | -         | -             | -          | -                     | -             | -       | -           | 4.1         |
Total      | 209.6     | 98.6          | 61.6       | 45.2                  | 131.5         | 184.9    | 176.7       | 160.3       |

Run No. 30 Date May 8, 1953

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Subtotal | 16.1      | 22.6          | 48.6        | 120.1                  | 178.6         | 107.3    | 123.4       | 191.6       |

Fish Eggs | 3.2       | -             | -           | -                      | -             | -       | -           | -           |
Fish Larvae | -         | -             | -           | -                      | -             | -       | -           | -           |
Total      | 19.3      | 22.6          | 48.6        | 120.1                  | 178.6         | 107.3    | 123.4       | 191.6       |
Table 10.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

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<tr>
<td><strong>Coeleterata</strong></td>
<td>– 10.8 – – – 7.2 – –</td>
</tr>
<tr>
<td><strong>Chaetognatha</strong></td>
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<td>– – – – – 3.6 3.6 3.6 –</td>
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<td><strong>Amphipoda</strong></td>
<td>– 3.6 3.6 – – – – –</td>
</tr>
<tr>
<td><strong>Shrimp</strong></td>
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<td><strong>Crabs</strong></td>
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<td><strong>Invertebrate Eggs</strong></td>
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<td><strong>Fish Larvae</strong></td>
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<td><strong>Coeleterata</strong></td>
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<tr>
<td><strong>Chaetognatha</strong></td>
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</tr>
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<td><strong>Amphipoda</strong></td>
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</tr>
<tr>
<td><strong>Shrimp</strong></td>
<td>12.4 4.1 – 4.1 – – –</td>
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<td><strong>Crabs</strong></td>
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<td><strong>Total</strong></td>
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### Table 10.--Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont’d

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**Note:** The table includes data from Run 33 and Run 34 with detailed information on the number of plankton organisms per cubic meter of water, including various categories such as Protozoa, Coelenterata, Chaetognatha, etc., along with additional categories like Subtotal, Fish Eggs, Fish Larvae, and Total. The data is collected over different dates and locations, indicating the variability in plankton population.
Table 10.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

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<td>Chaetognatha</td>
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<td>Subtotal</td>
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</table>

| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 53.9 | 29.6 | 29.6 | 37.7 | 5.4 | 21.6 | 64.6 | 32.2 |

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| Fish Eggs | - | - | - | 3.3 | 9.9 | 9.9 | 13.2 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 49.5 | 46.2 | 66.0 | 227.7 | 198.0 | 260.7 | 214.5 | 92.4 |
Table 10.—Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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Table 10.—Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont’d

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### Table 10. Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), cont'd

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Subtotal | 56.1 | 66.5 | 84.3 | 84.3 | 71.5 | 56.2 | 102.0 | 66.5 |

Fish Eggs |   -   |   -   |   -   |   -   |   -   |   -   |   -   |   -   |
Fish Larvae |   -   |   -   |   -   |   -   |   -   |   -   |   -   |   -   |

Total | 56.1 | 66.5 | 84.3 | 84.3 | 71.5 | 56.2 | 102.0 | 66.5 |

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<td>18.8</td>
<td>18.8</td>
<td>13.4</td>
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<td>Misc. Organisms</td>
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<td>2.7</td>
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</table>

Subtotal | 93.9 | 16.1 | 77.8 | 53.7 | 35.0 | 34.9 | 118.0 | 10.8 |

Fish Eggs |   -   |   -   |   -   |   -   |   -   |   -   |   -   |   -   |
Fish Larvae |   -   |   -   |   -   |   -   |   -   |   -   |   -   |   -   |

Total | 93.9 | 16.1 | 77.8 | 53.7 | 35.0 | 34.9 | 118.0 | 10.8 |
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<td>Chaetognatha</td>
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<td>Misc. Worms</td>
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<td>Amphipoda</td>
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<tr>
<td>Shrimp</td>
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<tr>
<td>Crabs</td>
<td>-</td>
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<tr>
<td>Misc. Crustaceans</td>
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<tr>
<td>Mollusca</td>
<td>4.8</td>
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<tr>
<td>Invertebrate Eggs</td>
<td>28.6</td>
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<td>Subtotal</td>
<td>119.1</td>
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<td>Fish Eggs</td>
<td>-</td>
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<tr>
<td>Fish Larvae</td>
<td>-</td>
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<tr>
<td>Total</td>
<td>119.1</td>
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Table 11.---Numbers and species of fish taken by trolling

<table>
<thead>
<tr>
<th>Species</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Location</th>
<th>Stage</th>
<th>Fork Length</th>
<th>Weight</th>
<th>Stomach Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcharhinus longimanus</td>
<td>Apr. 17</td>
<td>2200</td>
<td>30°00' 77°00'</td>
<td>F</td>
<td>2090/2</td>
<td>75</td>
<td>squid</td>
</tr>
<tr>
<td>Synodus foetens</td>
<td>Apr. 24</td>
<td>1140-1240</td>
<td>28°18.5' 80°10'</td>
<td>M(3)</td>
<td>252(1)/3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Trachinopephalus myops</td>
<td>Apr. 23</td>
<td>0815</td>
<td>27°23' 80°06'</td>
<td>-</td>
<td>159/3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sphyraena barracuda</td>
<td>Apr. 22</td>
<td>0920</td>
<td>27°00' 78°00'</td>
<td>M</td>
<td>II-III</td>
<td>896</td>
<td>7.25 none</td>
</tr>
<tr>
<td>Acanthocybium solandri</td>
<td>Apr. 22</td>
<td>1815</td>
<td>27°00' 79°15'</td>
<td>F</td>
<td>V</td>
<td>1357</td>
<td>37.4 none</td>
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<tr>
<td>Thunnus atlanticus</td>
<td>Apr. 25</td>
<td>1240</td>
<td>29°07' 79°28'</td>
<td>M</td>
<td>II</td>
<td>584</td>
<td>8.8 Syngnathus sp. (1); Molidae (1); Acanthurus sp. ? (1); Chaetodontidae ? (4); crabs; squid</td>
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<tr>
<td></td>
<td>May 6</td>
<td>1730</td>
<td>32°30' 78°45'</td>
<td>F</td>
<td>II-III</td>
<td>548</td>
<td>7.7 none</td>
</tr>
</tbody>
</table>

/1. Bait fishing
/2. Total length
/3. Standard length
* Asterisked items follow Bailey's (1951) revision of the double authority Cuvier and Valenciennes.
Table 11.--Numbers and species of fish taken by trolling (cont'd)

<table>
<thead>
<tr>
<th>Species</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Location</th>
<th>Stage</th>
<th>Fork Length (mm.)</th>
<th>Weight (lbs.)</th>
<th>Stomach Contents</th>
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</thead>
<tbody>
<tr>
<td>Euthynnus alletteratus</td>
<td>May 6</td>
<td>1530</td>
<td>32°38'</td>
<td>F</td>
<td>I</td>
<td>553</td>
<td>none</td>
</tr>
<tr>
<td>(Rafinesque)</td>
<td></td>
<td></td>
<td>78°58'</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>&quot;</td>
<td>May 8</td>
<td>0758</td>
<td>33°16'</td>
<td>F</td>
<td>III</td>
<td>602</td>
<td>7.2 Decapterus punctatus (Agassiz) (1); Haemulon flavolineatum (Demarest) (1)</td>
</tr>
<tr>
<td>&quot;</td>
<td>May 9</td>
<td>1434</td>
<td>34°24'</td>
<td>M</td>
<td>II</td>
<td>617</td>
<td>8.3 Scomber colias Gmelin? (1); Etrumeus sadina (Mitchill) (1)</td>
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<tr>
<td>&quot;</td>
<td>May 9</td>
<td>1440</td>
<td>34°24'</td>
<td>M</td>
<td>II</td>
<td>486</td>
<td>4.4 Etrumeus sadina (1); fish remains, unidentified</td>
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<tr>
<td>&quot;</td>
<td>May 12</td>
<td>0715</td>
<td>35°00'</td>
<td>M</td>
<td>II-III</td>
<td>591</td>
<td>5.6 none</td>
</tr>
<tr>
<td>&quot;</td>
<td>May 12</td>
<td>0715</td>
<td>35°00'</td>
<td>M</td>
<td>V</td>
<td>606</td>
<td>7.7 none</td>
</tr>
<tr>
<td>Seriola dumerili</td>
<td>July 6</td>
<td>0550</td>
<td>32°23'</td>
<td>F</td>
<td>I</td>
<td>769</td>
<td>11.0 none</td>
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<tr>
<td>(Risso)</td>
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<td></td>
<td>79°46'</td>
<td></td>
<td></td>
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<tr>
<td>Pomatomus saltatrix</td>
<td>May 4</td>
<td>1340</td>
<td>75°34'</td>
<td>-</td>
<td>-</td>
<td>184/3</td>
<td>-</td>
</tr>
<tr>
<td>(Linnaeus)</td>
<td></td>
<td></td>
<td>35°14'</td>
<td></td>
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<tr>
<td>Centropristes philadelphicus</td>
<td>Apr. 23</td>
<td>1140</td>
<td>24°41'</td>
<td>F</td>
<td>V</td>
<td>158 &amp; 165/3</td>
<td>pecten (1); limpet (1); &quot;olive shell&quot; gastropods (3); coral crabs (2)</td>
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<td></td>
<td>79°59'</td>
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<tr>
<td>Diplectrum formosum</td>
<td>Apr. 24</td>
<td>1240</td>
<td>28°18.5'</td>
<td>F</td>
<td>VI</td>
<td>195/3</td>
<td>-</td>
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<tr>
<td>(Linnaeus)</td>
<td></td>
<td></td>
<td>80°10'</td>
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</table>

/1. Bait fishing  
/3. Standard length
Table 11.--Numbers and species of fish taken by trolling (cont'd)

<table>
<thead>
<tr>
<th>Species</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Location</th>
<th>Stage</th>
<th>Fork Length (mm.)</th>
<th>Weight (lbs.)</th>
<th>Stomach Contents</th>
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<tbody>
<tr>
<td>Coryphaena hippurus Linnaeus</td>
<td>Apr. 23</td>
<td>1215</td>
<td>27°42'</td>
<td>79°50'</td>
<td>873</td>
<td>12.1</td>
<td>Strongylura sp. (1)</td>
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<td>Apr. 23</td>
<td>1315</td>
<td>27°42'</td>
<td>79°46'</td>
<td>601</td>
<td>3.9</td>
<td>Pseudupeneus maculatus (Bloch) (2); Hemirhamphus sp. (1); fish remains, unidentified (2)</td>
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<td>Apr. 24</td>
<td>1010</td>
<td>28°20'</td>
<td>79°53'</td>
<td>V-VI</td>
<td>1210</td>
<td>30.8 fish vertebrae</td>
</tr>
<tr>
<td></td>
<td>Apr. 25</td>
<td>1355</td>
<td>29°20'</td>
<td>79°32'</td>
<td>V</td>
<td>947</td>
<td>16.5 fish bones and vertebrae</td>
</tr>
<tr>
<td></td>
<td>Apr. 25</td>
<td>1355</td>
<td>29°20'</td>
<td>79°32'</td>
<td>V</td>
<td>709</td>
<td>6.6 none</td>
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<tr>
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<td>May 5</td>
<td>1300</td>
<td>31°31'</td>
<td>78°56'</td>
<td>II</td>
<td>502</td>
<td>4.4 none</td>
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<td>May 5</td>
<td>1800</td>
<td>31°39'</td>
<td>78°53'</td>
<td>V</td>
<td>675</td>
<td>7.7 fish remains ?</td>
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<td>May 5</td>
<td>1800</td>
<td>31°39'</td>
<td>78°53'</td>
<td>VI</td>
<td>625</td>
<td>4.4 fish remains ?</td>
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<td>May 6</td>
<td>1605</td>
<td>32°34'</td>
<td>78°53'</td>
<td>III</td>
<td>526</td>
<td>3.3 shrimp (2)</td>
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<td>May 12</td>
<td>1530</td>
<td>34°28.5'</td>
<td>74°38.5'</td>
<td>F-VI</td>
<td>629</td>
<td>5.5 Holocentrus miliarus Cuvier* (1); Holocentrus rufus (Walbaum) (1); Holocentrus bullisi Woods (3); Coryphaena hippurus (1); Xiphias gladius Linnaeus (1); Dactylopterus volitans (Linnaeus) (1); Genypterus serpens Cuvier* (1); Malacanthus plumieri (Bloch) (3); Spheroide sp. (2); Ophioctenius sp. (1); fish remains, unidentified (1); octopus (1); squid (1)</td>
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54
<table>
<thead>
<tr>
<th>Species</th>
<th>Date</th>
<th>Time</th>
<th>N.Lat.</th>
<th>W.Long.</th>
<th>Sex</th>
<th>Stage</th>
<th>Gonad</th>
<th>Length (mm.)</th>
<th>Weight (lbs.)</th>
<th>Stomach Contents</th>
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<td>C. hippurus</td>
<td>May 12</td>
<td>1732</td>
<td>34°15'</td>
<td>74°28'</td>
<td>F</td>
<td>VI+</td>
<td>697</td>
<td>6.6</td>
<td></td>
<td>Psenes cyanophrys Valenciennes*(4)</td>
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<td></td>
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<td></td>
<td>Diodon sp. (1); fish remains, unidentified (3); octopus, (1); isopods</td>
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<td></td>
<td>720</td>
<td>6.9</td>
<td></td>
<td>Psenes cyanophrys (6); Caranx ruber (Bloch) (1); Caranx bartholomaei Cuvier* (1);</td>
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<td>&quot;</td>
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<td>Hippocampus hudsonius DeKay (1); fish remains, unidentified (2); nautilus (1); octopuses (2); squid (1)</td>
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<td>Remora remora (Linnaeus) */4</td>
<td>Apr. 17</td>
<td>2200</td>
<td>30°00'</td>
<td>77°00'</td>
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<td>-</td>
<td>130/3</td>
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<tr>
<td>Diodon hystrix (Linnaeus) */1</td>
<td>May 12</td>
<td>1930</td>
<td>34°00'</td>
<td>74°17.5'</td>
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/1. Bait fishing  
/2. Standard length  
/3. Taken from shark  
/4. Taken from shark
Table 12.—Numbers and species of fish taken by dip net

<table>
<thead>
<tr>
<th>Species</th>
<th>Location of capture, number and size range of specimens</th>
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<tr>
<td>ALBULIDAE</td>
<td>-Reg. 71, (1 leptocephalus) 59 mm.</td>
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<td>Albula vulpes (Linnaeus)</td>
<td>-Reg. 71, (1) 19 mm.</td>
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<tr>
<td>CLupeoidei</td>
<td>Cape Hatteras Bight, 35°13'N., 75°32'W., (2) 22 mm.</td>
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<td>CLupeidae</td>
<td>Cape Hatteras Bight, (1) 62.5 mm.</td>
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<td>ENGRAULIDAE</td>
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<tr>
<td>Anchoa lyolepis</td>
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<td>(Evermann and Marsh)</td>
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<td>SYNODIDAE</td>
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<tr>
<td>Trachinocephalus myops</td>
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<tr>
<td>(Forster) ?</td>
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<td>Synodus sp. ?</td>
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<td>MYCTOPHIDAE</td>
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<tr>
<td>Hygophum reinhardtii</td>
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<td>(Lütken)</td>
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</tr>
<tr>
<td>Myctophum rufinum</td>
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<tr>
<td>Taning</td>
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<tr>
<td>Myctophum affine</td>
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<tr>
<td>(Lütken)</td>
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<tr>
<td>Gonichthys cocco</td>
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<tr>
<td>(Cocco)</td>
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<td>Centrobranchus nigro-</td>
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<td>ocellatus</td>
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<td>(Günther)</td>
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<tr>
<td>BELONIDAE</td>
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<tr>
<td>Strongylura sp.</td>
<td></td>
</tr>
<tr>
<td>Ablennes hians</td>
<td></td>
</tr>
<tr>
<td>(Valenciennes)*</td>
<td></td>
</tr>
<tr>
<td>HEMIRAMPHIDAE</td>
<td></td>
</tr>
<tr>
<td>Euleptorhamphus velox</td>
<td></td>
</tr>
<tr>
<td>Poey</td>
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</tbody>
</table>

* Asterisked items follow Bailey's (1951) revision of the double authority Cuvier and Valenciennes.
Table 12.—Numbers and species of fish taken by dip net (cont’d)

<table>
<thead>
<tr>
<th>Species</th>
<th>Location of capture, number and size range of specimens</th>
</tr>
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<tbody>
<tr>
<td>HEMIRAMPHIDAE (cont’d)</td>
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</tbody>
</table>
| Hemiramphus sp. | -Reg. 3, (1) 13 mm.  
                     | Reg. 8, (1) 19 mm.  
                     | -Reg. 3, (2) 15-27.5 mm.  |
| Hemiramphus brasiliensis (Linnaeus) | -Spc. Sta. 5, (1) 43 mm.  
                                         | Reg. 63, (2) 22.5-28 mm.  |
| Hemiramphus balao LeSueur | |
| EXOCOETIDAE | |
| Oxyporhamphus micropterus (Valenciennes)* | -Reg. 8, (1) 47 mm.  |
| Parexocoetus brachypterus (Richardson) | -Reg. 19, (4) 113-123 mm.  
                                                 | Reg. 42, (1) 45.5 mm.  
                                                 | Reg. 43, (10) 110-122 mm.  
                                                 | Reg. 63, (7) 30.5-39.5 mm.  
                                                 | Reg. 72, (2) 37-47.5 mm.  
                                                 | -Reg. 63, (3) 24-24.5 mm.  |
| Exocoetus volitans Linnaeus | -Spc. Sta. 5, (2) 36.5-66.5 mm.  
                                    | Spc. Sta. 8, (1) 42.5 mm.  
                                    | Reg. 18, (1) 45.5 mm.  
                                    | Reg. 63, (4) 22-40 mm.  |
| Exocoetus obtusirostris Günther | -Reg. 63, (1) 16 mm.  
                                   | Reg. 72, (1) 20 mm.  |
| Cypselurus cyanopterus (Valenciennes)* | -Reg. 1, (1) 40.5 mm.  
                                      | Reg. 8, (1) 44.5 mm.  |
| Cypselurus comatus (Mitchill) | |
| Cypselurus heterurus (Rafinesque) | -Spc. Sta. 5, (6) 98-120 mm.  
                                        | Between Reg. 20 to Reg. 21, 29°40' N.  
                                        | 80°57' W., (2) 194-216 mm.  
                                        | Reg. 63, (11) 18.5-116 mm.  |
| Prognichthys gibbifrons (Valenciennes)* | -Reg. 3, (8) 17-24 mm.  
                                   | Reg. 5, (3) 11-15 mm.  
                                   | Reg. 39, (8) 9-11 mm.  
                                   | Reg. 53, (6) 8-14 mm.  
                                   | Reg. 63, (10) 16-41.5 mm.  
                                   | Reg. 71, (1) 39 mm.  
                                   | Reg. 72, (3) 18.5-31.5 mm.  |
| Hirundichthys affinis (Günther) | -Spc. Sta. 9, (1) 49.5 mm.  
                                   | Reg. 2 (1) 54 mm.  
                                   | Reg. 39, (1) 13 mm.  
                                   | Reg. 63, (24) 35.5-72 mm.  
                                   | Reg. 72, (10) 26.5-107 mm.  |
Table 12.—Numbers and species of fish taken by dip net (cont’d)

<table>
<thead>
<tr>
<th>Species</th>
<th>Location of capture, number and size range of specimens</th>
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<tr>
<td><strong>HOLOCENTRIDAE</strong></td>
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<tr>
<td>Holocentrus sp.</td>
<td>- Reg. 63, (1) 14 mm.</td>
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<tr>
<td>Holocentrus bullisi Woods</td>
<td>- Spec. Sta. 4, (1) 28.5 mm.</td>
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<td>Spec. Sta. 5, (1) 17.5 mm.</td>
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<tr>
<td></td>
<td>Reg. 71, (3) 11-14.5 mm.</td>
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<tr>
<td>Holocentrus vexillarius Poey</td>
<td>- Reg. 63, (1) 34.5 mm.</td>
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<tr>
<td>Holocentrus rufus (Walbaum)</td>
<td>- Reg. 8, (1) 23 mm.</td>
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<td><strong>SYNGNATHIDAE</strong></td>
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<td>Hippocampus hudsonius DeKay</td>
<td>- Reg. 80, (1) 80 mm.</td>
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<td>Syngnathus springeri Herald</td>
<td>- Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (1) 61 mm.</td>
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<td>Reg. 42, (1) 119 mm.</td>
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<td><strong>ATHERINIDAE</strong></td>
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<td>Membras martinica (Valenciennes)</td>
<td>- Cape Hatteras Bight, (2) 84-85 mm.</td>
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<tr>
<td><strong>MUGILIDAE</strong></td>
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<tr>
<td>Mugil curema Valenciennes</td>
<td>- Std. Sta., 4/19-20/53, 1900-0400, (1) 22 mm.</td>
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<td>Spec. Sta. 5, (1) 20.5 mm.</td>
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<td>Reg. 3, (4) 12-20.5 mm.</td>
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<td>Reg. 13, (1) 20.5 mm.</td>
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<td>Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (1) 21.5 mm.</td>
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<td>Reg. 25, (4) 14.5-19 mm.</td>
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<td>Reg. 35, (1) 20.5 mm.</td>
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<td>Reg. 37, (2) 14-22.5 mm.</td>
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<td>Reg. 54, (2) 7 mm.</td>
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<tr>
<td></td>
<td>Reg. 61, (7) 6.5-8 mm.</td>
</tr>
<tr>
<td></td>
<td>Cape Hatteras Bight, (14) 17.5-24 mm.</td>
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<td><strong>SPHYRAENIDAE</strong></td>
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<tr>
<td>Sphyraena sp.</td>
<td>- Reg. 3, (1) 17.5 mm.</td>
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<tr>
<td><strong>SCOMBRIDAE</strong></td>
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<tr>
<td>Scombridsae</td>
<td>- Reg. 63, (1) 16 mm.</td>
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<tr>
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<td>Reg. 71, (8) 10.5-20 mm.</td>
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<tr>
<td><strong>XIPHIIIDAE</strong></td>
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<tr>
<td>Xiphias gladius Linnaeus</td>
<td>- Reg. 17, (1) 68.5 mm.</td>
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<td>Reg. 39, (1) 33 mm.</td>
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<td>Reg. 53, (1) 70 mm.</td>
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<td>Reg. 61, (1) 28.5 mm.</td>
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<td></td>
<td>Reg. 72, (1) 72.5 mm.</td>
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58
<table>
<thead>
<tr>
<th>Species</th>
<th>Location of capture, number and size range of specimens</th>
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<tr>
<td><strong>CORYPHAENIDAE</strong>&lt;br&gt;Coryphaena hippurus&lt;br&gt;Linnaeus</td>
<td>-Spc. Sta. 5, (1) 53 mm.&lt;br&gt;Reg. 3, (4) 14.5-30.5 mm.&lt;br&gt;Reg. 5, (1) 22.5 mm.&lt;br&gt;Reg. 8, (1) 37 mm.&lt;br&gt;Reg. 39, (2) 15.5-23.5 mm.&lt;br&gt;Reg. 62, (1) 11.5 mm.&lt;br&gt;Reg. 63, (59) 16-102 mm.&lt;br&gt;Reg. 71, (6) 13-63 mm.&lt;br&gt;Reg. 72, (14) 15-87.5 mm.</td>
</tr>
<tr>
<td><strong>NOMEIDAE</strong>&lt;br&gt;Nomeus gronovii (Gmelin)&lt;br&gt;Psenes cyanophrys&lt;br&gt;Valenciennes*</td>
<td>-Reg. 3, (1) 9 mm.&lt;br&gt;-Spc. Sta. 1, (1) 21.5 mm.&lt;br&gt;Spc. Sta. 2 to 3, 32°17'N., 75°42'W., (1) 54 mm.&lt;br&gt;Reg. 7, (3) 19.5-22 mm.&lt;br&gt;Reg. 40, (4) 19-26 mm.&lt;br&gt;Reg. 63, (6) 27.5-38.5 mm.&lt;br&gt;Reg. 80, (5) 32.5-36.5 mm.</td>
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<tr>
<td><strong>CARANGIDAE</strong>&lt;br&gt;Seriola dumerili&lt;br&gt;(Risso)&lt;br&gt;Seriola zonata&lt;br&gt;(Mitchill)</td>
<td>-Reg. 31, (1) 20.5 mm.&lt;br&gt;Reg. 61, (1) 15 mm.&lt;br&gt;-Reg. 3, (29) 8.5-18 mm.&lt;br&gt;Reg. 31, (2) 16-29 mm.&lt;br&gt;Reg. 42, (1) 30 mm.</td>
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<tr>
<td>Decapterus punctatus&lt;br&gt;(Agassiz)</td>
<td>-Std. Sta., 4/19-20/53, 1900-0400, (1) 23.5 mm.&lt;br&gt;Spc. Sta. 1, (1) 52 mm.&lt;br&gt;Reg. 3, (12) 11.5-42 mm.&lt;br&gt;Reg. 5, (3) 13-17 mm.&lt;br&gt;Between Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (3) 16.5-35.5 mm.&lt;br&gt;Reg. 42, (11) 25.5-40 mm.&lt;br&gt;Reg. 71, (3) 13-41 mm.</td>
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<tr>
<td>Trachinotus falcatus&lt;br&gt;(Linnaeus)</td>
<td>-Reg. 2, (1) 8 mm.</td>
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<tr>
<td>Caranx cryos (Mitchill)&lt;br&gt;Caranx ruber (Bloch)</td>
<td>-Reg. 63, (2) 12.5-29 mm.&lt;br&gt;-Spc. Sta. 1, (1) 45 mm.&lt;br&gt;Reg. 3, (1) 22.5 mm.&lt;br&gt;Reg. 7, (2) 23 mm.&lt;br&gt;Reg. 8, (7) 25-40 mm.&lt;br&gt;Reg. 40, (2) 20-23 mm.&lt;br&gt;Reg. 62, (3) 24-33 mm.</td>
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</table>
Table 12.--Numbers and species of fish taken by dip net (cont'd)

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<tr>
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<td><strong>CARANGIDAE (cont'd)</strong></td>
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<tr>
<td>Caranx ruber Bloch (cont'd)</td>
<td>Reg. 63, (8) 25-57.5 mm. Reg. 72, (1) 65 mm. Reg. 80, (17) 26-52 mm.</td>
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<tr>
<td>Caranx bartholomaei Cuvier*</td>
<td>Reg. 7, (1) 21 mm. Reg. 48, (1) 19.5 mm. Reg. 63, (3) 35.5-40 mm. Reg. 80, (5) 23-37 mm.</td>
</tr>
<tr>
<td>Caranx latus Agassiz</td>
<td>Reg. 71, (1) 17 mm.</td>
</tr>
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<td><strong>POMATOMIDAE</strong></td>
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</tr>
<tr>
<td>Pomatomus saltatrix (Linnaeus)</td>
<td>Cape Hatteras Bight, (22) 16.5-45 mm. Reg. 3, (3) 26.5-31.5 mm.</td>
</tr>
<tr>
<td><strong>KYPHOSIDAE</strong></td>
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<tr>
<td>Kyphosus sp.</td>
<td>Reg. 63, (3) 13-16 mm.</td>
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<tr>
<td><strong>MULLIDAE</strong></td>
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<tr>
<td>Pseudopeneus maculatus (Bloch)</td>
<td>Reg. 3, (1) 39 mm. Reg. 8, (1) 49 mm. Reg. 13, (16) 36.5-38 mm. Reg. 19, (2) 36.5-38 mm.</td>
</tr>
<tr>
<td>Mullus suratus Jordan and Gilbert</td>
<td>Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (2) 36.5-38 mm. Reg. 25, (4) 17.5-25 mm. Reg. 31, (2) 15.5-18.5 mm. Reg. 36, (1) 17 mm. Reg. 42, (16) 19-34 mm. Reg. 43, (3) 21-27.5 mm. Reg. 49, (14) 22-35 mm. Reg. 76, (4) 24-35 mm. Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (13) 33-39 mm. Reg. 20 to Reg. 21, 29°40'N., 80°57'W., (13) 33-39 mm.</td>
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<tr>
<td><strong>POMACENTRIDAE</strong></td>
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<tr>
<td>Eupomacentrus sp.?</td>
<td>-Reg. 3, (5) 8.5 mm. Reg. 63, (2) 11.5-14 mm. Reg. 71, (33) 10-14.5 mm.</td>
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</table>
Table 12.—Numbers and species of fish taken by dip net (cont'd)

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<td>POMACENTRIDAe (cont'd)</td>
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<tr>
<td>Abudefduf saxatilis (Linnaeus)</td>
<td>-Reg. 39, (1) 10.5 mm.</td>
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<td>Reg. 80, (2) 21.5-28.5 mm.</td>
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<tr>
<td>BLENNIIDAE</td>
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<tr>
<td>Blenniidae</td>
<td>-Reg. 3, (60) 15-18 mm.</td>
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<tr>
<td>Ophioblennius sp.</td>
<td>-Reg. 42, (1) 43.5 mm.</td>
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<td>BALISTIDAE</td>
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<tr>
<td>Canthidermis sufflamen (Mitchill)</td>
<td>-Reg. 39, (1) 12.5 mm.</td>
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<td>Reg. 40, (1) 16 mm.</td>
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<td>ALUTERIDAE</td>
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<td>Stephanolepis setifer (Bennett)</td>
<td>-Reg. 40, (1) 24.5 mm.</td>
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<td>Reg. 80, (1) 40 mm.</td>
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<td>Stephanolepis hispidus (Linnaeus)</td>
<td>-Reg. 61, (3) 10-12.5 mm.</td>
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<td>Reg. 72, (1) 15 mm.</td>
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<td>Monacanthus ciliatus (Mitchill)</td>
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<td>Alutera sp. /1</td>
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<td>Alutera scripta (Osbeck)</td>
<td>-Reg. 5, (1) 15.5 mm.</td>
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<td>Reg. 80, (1) 63 mm.</td>
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<td>TETRAODONTIDAE</td>
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<td>Spherooides sp.</td>
<td>-Reg. 3, (41) 6.5-12.5 mm.</td>
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<td>DIODONTIDAE</td>
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<td>Diodon hystrix Linnaeus</td>
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<td>Diodon hystrix/2</td>
<td>-Reg. 3, (1) 43 mm.</td>
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<td>ANTENNARIIDAE</td>
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<tr>
<td>Histrio gibba (Mitchill)</td>
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<td>Reg. 40, (1) 13.5 mm.</td>
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<td>Reg. 80, (42) 10.5-35 mm.</td>
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</table>

1/ A. schoepfi (Walbaum) or A. punctata Agassiz
2/ D. holacanthus Linnaeus, if valid.
Figure 5.—Distribution of temperature (°C), salinity (%), and density (\(\sigma_t\)) across section of stations 1, 2, and 3 (Jupiter Section).

Figure 6.—Distribution of temperature (°C), salinity (%), and density (\(\sigma_t\)) across section of stations 5, 6, and 7 (Vero Section).
Figure 7.—Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 8, 9, 10, and 11 (Canaveral Section).
Figure 8.—Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 13, 14, 15, and 16 (Ponce de Leon Section).
Figure 9.--Distribution of temperature (°C), salinity (‰), and density (σ_t) across section of stations 17, 18, 19, 20, and 21 (Matanzas Section).
Figure 10.—Distribution of temperature (°C), salinity (%), and density (σt) across section of stations 23, 24, 25, 26, 27, and 28 (Jacksonville Section).
Figure 11.--Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 29, 30, 31, 32, 33, and 34 (Brunswick Section).
Figure 12.--Distribution of temperature (°C), salinity (‰), and density ($\sigma_t$) across section of stations 36, 37, 38, 39, and 40 (Savannah Section).
Figure 13.--Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 40, 41, 42, 43, and 44 (Charleston Section).

Figure 14.--Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 46, 47, 48, and 49 (Cape Romain Section).
Figure 15.--Distribution of temperature (°C), salinity (%), and density (σ_t) across section of stations 53, 54, 55, and 56 (Long Bay Section).

Figure 16.--Distribution of temperature (°C), salinity (%), and density (σ_t) across section of stations 58, 59, 60, 61, and 62 (Cape Fear Section).
Figure 17.—Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 63, 64, 65, 66, and 67 (Onslow Bay Section).

Figure 18.—Distribution of temperature (°C), salinity (%), and density ($\sigma_t$) across section of stations 69, 70, 71, and 72 (Cape Lookout Section).
Figure 19.--Distribution of temperature (°C), salinity (‰), and density ($\sigma_t$) across section of stations 73, 74, 75, and 76 (Raleigh Bay Section).
Figure 20.—Distribution of temperature (°C), salinity (%), and density (σ_t) across section of stations 78, 79, and 80 (Hatteras Section).
## STATION 1

**DATE** April 23, 1953  **LAT.** 27°00' N.  **LONG.** 79°18' W.  **TIME** 01

**DEPTH** 644  **WIND** 4, 09  **BAR.** 22  **AIR TEMP:** dry 22.2°C, wet 15.6°C  
**HUMIDITY** 50%  **WEATHER** Type 8, **amt.** 1  **SEA:** dir. 00, **amt.** 2  
**SWELL:** dir. 18, **amt.** 1  **VIS.** 7  **WATER TRANS.** -

### OBSERVED

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<th>$\sigma_t$</th>
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* Value questionable  
** From BT

### INTERPOLATED AND CALCULATED

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<th>$\sigma_t$</th>
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74
### STATION 1

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STATION 2

DATE April 23, 1953  LAT. 26°56' N.  LONG. 79°41'W.  TIME 06

DEPTH 338 WIND 5, 14 BAR. 23 AIR TEMP: dry 22.2°C, wet 16.2°C
HUMIDITY 54% WEATHER 02 CLOUDS: type __, amt. __ SEA: dir. __, amt. __
SWELL: dir. __, amt. __ VIS. 8 WATER TRANS. __

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STATION 2

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DEPTH  11  WIND  5°, 09  BAR.  21  AIR TEMP:  dry 21.7°C, wet 15.6°C
HUMIDITY  52%  WEATHER  02  CLOUDS: type - , amt. 1  SEA: dir. 09, amt. 1
SWELL: dir. - , amt. -  VIS. 8  WATER TRANS. -

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**STATION 4**

DATE: April 23, 1953  
LAT.: 27°20'N.  
LONG.: 80°04'W.  
TIME:  13

DEPTH: 22  
WIND: 4, 14  
BAR.:  
AIR TEMP: dry — °C, wet — °C  
HUMIDITY — %  
WEATHER C2  
CLOUDS: type______, amt.______  
SEA: dir.______, amt.______  
SWELL: dir.______, amt.______  
VIS.: 8  
WATER TRANS.:  

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STATION 5

DATE April 23, 1953  LAT. 27°40' N.  LONG. 80°04' W.  TIME 16
DEPT. 40  WIND 4, 10 BAR. 23  AIR TEMP: dry 22.2°C, wet 16.7°C
HUMIDITY 57%  WEATHER 02 CLOUDS: type 8, amt. 3  SEA: dir. 09, amt. 2
SWELL: dir. 00, amt. 2  VIS. 7  WATER TRANS.

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*Value questionable

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STATION 6

DATE April 23, 1953 LAT. 27°40' N. LONG. 79°41' W. TIME 20
DEPTH 567 WIND 14 BAR. 23 AIR TEMP: dry 22.8°C, wet 16.7°C
HUMIDITY 54% WEATHER 02 CLOUDS: type 8, amt. 2 SEA: dir. --, amt. 1
SWELL: dir. --, amt. 1 VIS: 8 WATER TRANS: 33

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* Value questionable

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84
### STATION 6

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STATION 7

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HUMIDITY 90%  WEATHER 02  CLOUDS: type 8, amt. 2  SEA: dir. 09, amt. 1
SWELL: dir. _, amt. _  VIS. _  WATER TRANS._

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87
STATION 8

DATE April 24, 1973  LAT. 28°19' N.  LONG. 79°26' W.  TIME 10

DEPTH 795  WIND 3, 20  BAR. 20  AIR TEMP: dry 22.8°C, wet 16.7°C
HUMIDITY 54%  WEATHER 02  CLOUDS: type-, amt. 0  SEA: dir. ___, amt. 2
Swell: dir. ___, amt. ___  VIS. 7  WATER TRANS. ___

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* Value questionable
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STATION 9

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HUMIDITY 83% WEATHER 02 CLOUDS: type 8, amt. 2  SEA: dir. - , amt. -
SWELL: dir. - , amt. - VIS. 8  WATER TRANS. 37

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STATION 10

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SWELL:dir.____,amt.____  VIS.____  WATER TRANS. 14

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<th>NO₃-NO₂ (µg at/l)</th>
<th>ARABINOSE (mg/l)</th>
<th>TYROSINE (mg/l)</th>
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STATION 11

DATE April 24, 1953 LAT. 28°20' N. LONG. 80°32' W. TIME 20

DEPTH 12 WIND 4, 14 BAR. AIR TEMP: dry - °C, wet - °C

HUMIDITY _% WEATHER 02 CLOUDS: type , amt. 2 SEA: dir. , amt. 

SWELL: dir. , amt. VIS. 8 WATER TRANS. 

**OBSERVED**

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<th>( O_2 ) (ml/l)</th>
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STATION 12

DATE April 24, 1953 LAT. 28°41' N. LONG. 80°26' W. TIME 24
DEPTH 18 WIND 4, 14 BAR. 19 AIR TEMP: dry 22.8°C, wet 19.4°C
HUMIDITY 73% WEATHER 02 CLOUDS: type 1, amt. 3 SEA: dir. 14, amt. 1
SWELL: dir. --, amt. -- VIS. -- WATER TRANS. --

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**STATION 13**

**DATE** April 25, 1953  **LAT.** 29°00'N.  **LONG.** 80°33'W.  **TIME** 01

**DEPTH** 17  **WIND** 6, 14 BAR.  **AIR TEMP:** dry __°C, wet __°C  
**HUMIDITY:** %  **WEATHER:** CLOUDS: type __, amt. __  
**SEA:** dir. __, amt. __  
**SWELL:** dir. __, amt. __  
**VIS:** __  
**WATER TRANS.** __

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* Value questionable

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**INTERPOLATED AND CALCULATED**

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STATION 14

DATE April 25, 1953  LAT. 29°01' N.  LONG. 80°08' W.  TIME 06
DEPTH 82  WIND 5, 10  BAR. 19  AIR TEMP: dry 21.1 °C, wet 19.4 °C
HUMIDITY 86%  WEATHER 00  CLOUDS: type -, amt. 6  SEA: dir. 10, amt. 1
SWELL: dir. --, amt. --  VIS. 7  WATER TRANS. --

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STATION 15

DATE April 25, 1953  LAT. 28°58' N.  LONG. 79°47' W.  TIME 10

DEPTH 732 WIND 6., 20 BAR. AIR TEMP: dry -- °C, wet -- °C

HUMIDITY -- % WEATHER 01 CLOUDS: type 3, amt. 5 SEA: dir. -- , amt. --

SWELL: dir. -- , amt. -- VIS. 7 WATER TRANS. --

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** From BT

INTERPOLATED AND CALCULATED

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STATION 16

DATE April 23, 1953  LAT. 29°00'N.  LONG. 79°26'W.  TIME 16

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HUMIDITY 58%  WEATHER 01  CLOUDS: type 8, amt. 5  SEA: dir. --, amt. --
Swell: dir. --, amt. --  VIS. 7  WATER TRANS. 22

** From BT

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STATION 17

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SWELL: dir.  , amt.  -  VIS. 7  WATER TRANS. -

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STATION 18

DATE April 26, 1953 LAT. 29°40’ N. LONG. 80°00’ W. TIME 02
DEPTH 539 WIND 10, 18 BAR. 15 AIR TEMP: dry 25.0°C, wet 21.7°C
HUMIDITY 75% WEATHER 60 CLOUDS: type 8, amt. 8 SEA: dir. 18, amt. 3
SWELL: dir. --, amt. -- VIS. 6 WATER TRANS. --

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**STATION 19**

DATE April 26, 1953  LAT. 29°39' N.  LONG. 80°23' W.  TIME 07

DEPTH 42 WIND 4, 25 BAR. AIR TEMPERATURE: dry __°C, wet __°C

HUMIDITY __%  WEATHER 13 CLOUDS: type __, amt. __ SEAS: dir. __, amt. __

SWELL: dir. __, amt. __  VIS: 6  WATER TRANS. __

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STATION 20

DATE April 26, 1933  LAT. 29°40' N.  LONG. 80°45' W.  TIME 12

DEPTH 27  WIND 9 , 18  BAR.  AIR TEMP:  dry - __°C,  wet __ °C
HUMIDITY - __%  WEATHER __ CLOUDS: __, __ SEA: __
SWELL: __, __ VIS. __ WATER TRANS. __

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112
### STATION 20

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DATE: April 26, 1953  LAT. 29°39' N.  LONG. 81°08' W.  TIME 15
DEPTH 16  WIND - - - BAR. - -  AIR TEMP: dry - °C, wet - °C
HUMIDITY - %  WEATHER 65  CLOUDS: type 7, amt. 8  SEA: dir. - , amt. 4
SWELL: dir. - , amt. -  VIS. 5  WATER TRANS. -

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DATE April 26, 1953  LAT.  30°00'N.  LONG.  81°14'W.  TIME  18

DEPTH  13  WIND  -  BAR.  -  AIR TEMP: dry  - °C, wet  - °C  
HUMIDITY - % WEATHER 03 CLOUDS: type 7, amt. 8  SEA: dir. - , amt. - 
SWELL: dir. - , amt. - VIS. 6  WATER TRANS. -

**OBSERVED**

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HUMIDITY --- % WEATHER: --- CLOUDS: type ---, amt. --- SEA: dir. ---, amt. ---
SWELL: dir. ---, amt. --- VIS. --- WATER TRANS. ---

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DEPTTH 20  WIND ---  BAR.  ---  AIR TEMP: dry --- °C, wet --- °C

HUMIDITY -  % WEATHER 25 CLOUDS: type , amt.  SEA: dir. ---, amt. ---

SWELL: dir. ---, amt. ---  VIS. 6  WATER TRANS. ---

OBSERVED

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STATION 25

DATE April 27, 1953 LAT. 30°20' N. LONG. 80°35' W. TIME 02
DEPTH 33 WIND --, -- BAR. -- AIR TEMP: dry -- °C, wet -- °C
HUMIDITY --% WEATHER 03 CLOUDS: type 6, amt. 6 SEA: dir. -- , amt. --
SWELL: dir. -- , amt. -- VIS. 6 WATER TRANS. --

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* Value questionable

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## STATION 26

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STATION 27

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HUMIDITY 69% WEATHER 01 CLOUDS: type __, amt. __ SEA: dir.___, amt. __
SWELL: dir.___, amt. __ VIS. __ WATER TRANS.__

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STATION 28

DATE April 27, 1953  LAT. 30°20' N.  LONG. 79°28' W.  TIME 12

DEPTH 786  WIND 8  BAR. 13  AIR TEMP: dry 22.2°C, wet 16.7°C

HUMIDITY 57%  WEATHER: 01  CLOUDS: type B, amt. 3  SEA: dir. ___, amt. __

SWELL: dir. ___, amt. ___  VIS. 7  WATER TRANS. ___

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STATION 29

DATE April 27, 1953 LAT. 30°56' N. LONG. 79°16' W. TIME 17
DEPTH 759 WIND 8, 27 BAR. 13 AIR TEMP: dry 22.2°C, wet 16.7°C HUMIDITY 57% WEATHER 01 CLOUDS: type 8, amt. 2 SEA: dir. ___, amt. ___ SWELL: dir. ___, amt. ___, VIS. 8 WATER TRANS. __

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* Value questionable
** From BT

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### STATION 30

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STATION 31

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HUMIDITY 44%    WEATHER 01    CLOUDS: type ___, amt. ___, SEA: dir. ___, amt. ___,
SWELL: dir. ___, amt. ___, VIS. ___, WATER TRANS. ___

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INTERPOLATED AND CALCULATED

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DATE April 28, 1953  LAT. 31°00' N.  LONG. 80°23' W.  TIME 06

DEPTH 341  WIND - -  BAR. - -  AIR TEMP: dry - - °C, wet - - °C
HUMIDITY - - %  WEATHER 02  CLOUDS: type - - , amt. - -  SEA: dir. - - , amt. - -
SWELL: dir.- - , amt.- -  VIS. 7  WATER TRANS. - -

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**INTERPOLATED AND CALCULATED**

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<th>TYROSINE (mg/l)</th>
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STATION 33

DATE April 28, 1953 LAT. 31°00' N. LONG. 80°46' W. TIME 09

DEPTH 23 WIND - - BAR. - - AIR TEMP: dry - - °C, wet - - °C
HUMIDITY - % WEATHER 02 CLOUDS: type - , amt. 0 SEA: dir. - - , amt. - -
SWELL: dir. - - , amt. - - VIS. 8 WATER TRANS. - -

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<th>O&lt;sub&gt;2&lt;/sub&gt; (ml/l)</th>
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<th>TYROSINE (mg/l)</th>
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<th>TYROSINE (mg/l)</th>
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STATION 34

DATE April 28, 1953  LAT. 31°00'N.  LONG. 81°09'W.  TIME 11
DEPTH 11' WIND --, -- BAR. -- AIR TEMP: dry -- °C, wet -- °C
HUMIDITY -- % WEATHER -- CLOUDS: type __, amt. __ SEA: dir. __, amt. __
SWELL: dir. __, amt. __ VIS. __ WATER TRANS. __

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<td>ARABINOSE (mg/l)</td>
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DATE May 5, 1953  LAT.  31°21' N.  LONG.  80°55' W.  TIME 01  
DEPTH 15  WIND 5, 14 BAR.  AIR TEMP: dry —°C, wet —°C  
HUMIDITY —%  WEATHER 02  CLOUDS: type 0, amt. 1  SEA: dir., amt. -  
SWELL: dir. __, amt. __  VIS. 8  WATER TRANS. —  

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<th>O₂ (ml/l)</th>
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INTERPOLATED AND CALCULATED  

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### STATION 35

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DATE: May 5, 1953  LAT.: 31°42’ N.  LONG.: 80°38’ W.  TIME: 04

DEPTH: 21  WIND: 7,14  BAR.: --  AIR TEMP: dry -- °C, wet -- °C

HUMIDITY: --%  WEATHER: 02  CLOUDS: type --, amt. --  SEA: dir. --, amt. --

SWELL: dir. --, amt. --  VIS.: 7  WATER TRANS: --

<table>
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<th>O₂ (ml/l)</th>
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<th>NO$_3$-NO$_2$ (µg at/l)</th>
<th>ARABINOSE (mg/l)</th>
<th>TYROSINE (mg/l)</th>
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<th>TYROSINE (mg/l)</th>
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## STATION 37

**DATE** May 5, 1953  **LAT.** 31°38'N.  **LONG.** 80°14'W.  **TIME** 07

**DEPTH** 32  **WIND** 9, 17 BAR.  **AIR TEMP:** dry -- °C, wet -- °C

**HUMIDITY:** %  **WEATHER:** CLOUDS: type --, amt. --  **SEA:** dir. --, amt. --  **SWELL:** dir. --, amt. --  **VIS:** 7

---

### OBSERVED

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* Value questionable

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### INTERPOLATED AND CALCULATED

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DATE May 5, 1953   LAT. 31°36'N.   LONG. 79°51'W.   TIME 11
DEPTH 145   WIND 8, 17 BAR.   AIR TEMP: dry ___ °C, wet ___ °C
HUMIDITY ___ %   WEATHER: type 2, amt. 3   SEA: dir. ___, amt. __
SWELL: dir. ___, amt. __   VIS. 8   WATER TRANS. __

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* Value questionable

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### Station 38

#### Observed

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DEPTH 468   WIND 9°, 18   BAR. 23   AIR TEMP: dry 25.6°C, wet 23.3°C
HUMIDITY 83%   WEATHER 03 CLOUDS: type 8, amt. 6   SEA: dir. ---, amt. ---
SWELL: dir. ---, amt. ---   VIS. 8   WATER TRANS. ---

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HUMIDITY 76% WEATHER 02 CLOUDS: type 8, amt. 2 SEA: dir. --, amt. --
SWELL: dir. --, amt. -- VIS. 8 WATER TRANS. --

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STATION 41

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HUMIDITY: 83%  WEATHER: 03  CLOUDS: type 2, amt. 3  SEA: dir. __, amt. __
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INTERPOLATED AND CALCULATED
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HUMIDITY  -  %  WEATHER  02  CLOUDS: type  -  , amt.  -  SEA: dir.  -  , amt.  -  
SWELL: dir.  -  , amt.  -  VIS.  7  WATER TRANS.  -  

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STATION 43

DATE: May 6, 1953  LAT.: 32°12'N.  LONG.: 79°33'W.  TIME 08

DEPTH: 31  WIND: 4, 17  BAR.: 19  AIR TEMP: dry 23.9°C, wet 22.8°C

HUMIDITY: 91%  WEATHER: 02  CLOUDS: type 8, amt. 4  SEA: dir. __, amt. __

SWELL: dir. __, amt. __  VIS: 8  WATER TRANS. __

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### STATION 43

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STATION 44

DATE May 6, 1953  LAT. 32°26' N.  LONG. 79°50' W.  TIME 12
DEPTH 15 WIND 3, 18 BAR. - AIR TEMP: dry - °C, wet - °C
HUMIDITY - % WEATHER CLOUDS: type 2, amt. 6 SEA: dir., amt.
SWELL: dir., amt. VIS. 8 WATER TRANS.

OBSERVED

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STATION 45

DATE May 6, 1953       LAT. 32°40'N.       LONG. 79°32'W.       TIME 14

DEPTH 15       WIND 5, 20 BAR. - AIR TEMP: dry — °C, wet — °C
HUMIDITY — % WEATHER 02 CLOUDS: type 1, amt. 4 SEA: dir. — , amt. —
SWELL: dir. — , amt. — VIS. 6 WATER TRANS. —

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163
STATION 46

DATE  May 6, 1953    LAT.  32°54' N.  LONG.  79°16' W.  TIME  17
DEPTH  11 WIND  5, 20 BAR. -- AIR TEMP: dry -- °C, wet -- °C
HUMIDITY --%  WEATHER 03 CLOUDS: type 8, amt. 6  SEA: dir. --, amt. --
SWELL: dir. --, amt. --  VIS. 6  WATER TRANS. --

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LAT.: 32°40' N.  
LONG.: 79°00' W.  
TIME: 20

**DEPT**H: 29  
WIND: 7, 18  
BAR.:  18  
AIR TEMP: dry --°C, wet --°C  
HUMIDITY: %  
WEATHER:  
CLOUDS: type 9  
SEA: dir., amt.  
SWELL: dir., amt.  
VIS.: 5  
WATER TRANS.: 

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DEPTH 366. WIND 10, 20 BAR.  17 AIR TEMP: dry 23.9°C, wet 21.7°C
HUMIDITY 83% WEATHER 96. CLOUDS: type __, amt. __ SEA: dir. __, amt. __
SWELL: dir. __, amt. __ VIS. 5 WATER TRANS. __

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## STATION 48

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169
**STATION 49**

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LAT.: 32°12' N.  
LONG.: 78°25' W.  
TIME: 04

DEPTH: 338  
WIND: 11, 18  
BAR.: 16  
AIR TEMP: dry 25.0 °C, wet 22.8 °C  
HUMIDITY: 82%  
WEATHER: 29  
CLOUDS: type 9, amt. 3  
SEA: dir. 18, amt. 5  
SWELL: dir. 18, amt. 5  
VIS: 6  
WATER TRANS.

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170
## STATION 49

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LAT: 32°50'N.  
LONG: 78°05'W.  
TIME: 18

DEPTH: 16.4  
WIND: 8, 19  
BAR: 15  
AIR TEMP: dry 23.3°C, wet 22.2°C  
HUMIDITY: 91%  
WEATHER: 95  
CLOUDS: type_, amt._  
SEA: dir., amt._  
SWELL: dir., amt._  
VIS: 1/4  
WATER TRANS.:

STATION 53

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STATION 54

DATE May 7, 1953 LAT. 33°03' N. LONG. 78°21' W. TIME 21
DEPTH 30 WIND 6,19 BAR. - AIR TEMP: dry - °C, wet - °C
HUMIDITY - % WEATHER 02 CLOUDS: type 7, amt. 8 SEA: dir. ___, amt. ___
SWELL: dir. ___, amt. ___ VIS. 6 WATER TRANS. ___

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## STATION 54

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176
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STATION 56

DATE May 8, 1953  LAT. 33°32' N.  LONG. 78°55' W.  TIME 03

DEPTH 9  WIND 10, 24  BAR. 13  AIR TEMP: dry 21.7°C, wet 21.1°C
HUMIDITY 95%  WEATHER 01  CLOUDS: type __, amt. 2  SEA: dir. 22, amt. 3
SWELL: dir. 18, amt. 4  VIS. 6  WATER TRANS. __

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DEPTH 20  WIND 8, 22  BAR. 12  AIR TEMP: dry 21.1°C, wet 20.6°C
HUMIDITY 96% WEATHER 13 CLOUDS: type _, amt. 0  SEA: dir. 25, amt. 3
SWELL: dir. 18, amt. 4 VIS. 6  WATER TRANS. __

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DATE May 8, 1953 LAT. 33°36' N. LONG. 77°56' W. TIME 09

DEPTH 20 WIND 5, 27 BAR. 12 AIR TEMP: dry 20.6°C, wet 19.4°C
HUIMIDITY 90% WEATHER 13 CLOUDS: type 9, amt. 1 SEA: dir. 27, amt. 2
SWELL: dir. 22, amt. 3 VIS. 6 WATER TRANS.

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STATION 59

DATE May 8, 1953  LAT. 33°22' N.  LONG. 77°37' W.  TIME 12

DEPTH 22 WIND 6, 29 BAR. 14 AIR TEMP: dry 22.8°C, wet 19.4°C
HUMIDITY 73% WEATHER CLOUDS: type 0, amt. 1 SEA: dir. 29, amt. 1
SWELL: dir. 20, amt. 3 VIS. 7 WATER TRANS.

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184
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DATE May 8, 1953 LAT. 33°07'N. LONG. 77°20'W. TIME 14
DEPTH 265 WIND 2, 32 BAR. 15 AIR TEMP: dry 24.4°C, wet 20.6°C HUMIDITY 71% WEATHER 01 CLOUDS: type 1, amt. 1 SEA: dir. --, amt. 1 SWELL: dir. 22, amt. 4 VIS. 7 WATER TRANS.

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STATION 61

DATE May 8, 1953    LAT. 32°54' N.    LONG. 77°04' W.    TIME 18
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HUMIDITY 65%    WEATHER 02    CLOUDS: type 6, amt. 3    SEA: dir. 18, amt. 4
SWELL: dir. 18, amt. 4    VIS. 7    WATER TRANS.

OBSERVED

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STATION 62
DATE May 8, 1953 LAT. 32°43'N. LONG. 76°48'W. TIME 22
DEPTH 805 WIND 3,16 BAR 12 AIR TEMP: dry 23.9°C, wet 20.0°C
HUMIDITY 70% WEATHER 02 CLOUDS type 8, amt. 3 SEA: dir. 14, amt. 2
SWELL: dir. 14, amt. 3 VIS. 8 WATER TRANS. —

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* Value questionable

INTERPOLATED AND CALCULATED

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### STATION 62

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* Value questionable

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HUMIDITY 86%  WEATHER 13  CLOUDS: type 8, amt. 3  SEA: dir. 26, amt. 3
Swell: dir. 17, amt. 2  VIS. 7  WATER TRANS._

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HUMIDITY 90%  WEATHER 13 CLOUDS: type 8, amt. 3  SEA: dir. 25, amt. 1
SWELL: dir. 16, amt. 1  VIS. 6  WATER TRANS.

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## STATION 65

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STATION 66

DATE May 9, 1953  LAT.  33°57' N.  LONG.  77°13' W.  TIME 12

DEPT. 28  WIND 7, 35  BAR. 13  AIR TEMP: dry 20.6°C, wet 17.2°C

HUMIDITY 72%  WEATHER 01  CLOUDS: type A, amt. 1  SEA: dir. 32°, amt. 2

SWELL: dir. 22°, amt. 2  VIS. 7  WATER TRANS.

| OBSERVED |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| DEPTH (m) | T (°C) | S (%) | σt | O2 (ml/l) |
| 1 | 21.20 | 34.36 | 23.97 | 5.16 |
| 10 | 20.83 | 34.85 | 24.45 | 5.20 |
| 20 | 19.46 | 36.19 | 25.83 | 4.38 |

INTERPOLATED AND CALCULATED

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<th>S (%)</th>
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STATION 67

DATE May 9, 1953    LAT. 34°11' N. LONG. 77°30' W. TIME 15
DEPTH 16. WIND 3, 18 BAR. 14 AIR TEMP: dry 18.9 °C, wet 16.7 °C
HUMIDITY 80% WEATHER 01 CLOUDS: type --, amt. 0. SEA: dir. --, amt. 1
SWELL: dir. --, amt. 1

VIS. 8 WATER TRANS. --

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STATION 68

DATE: May 9, 1953  LAT. 34°23' N.  LONG. 77°10' W.  TIME 19

DEPTH 20  WIND 4, 22  BAR. 12  AIR TEMP: dry 21.7°C, wet 17.2°C
HUMIDITY 64%  WEATHER: 03  CLOUDS: type 8, amt. 2  SEA: dir. 22, amt. 1
SWELL: dir. 22, amt. 1  VIS. 8  WATER TRANS.

OBSERVED

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202
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STATION 69

DATE May 9, 1953   LAT. 34°32' N.   LONG. 76°50' W.   TIME 21
DEPTH 10   WIND 4, 22   BAR. 12   AIR TEMP: dry 22.8°C, wet 18.9°C
HUMIDITY 79% WEATHER 03 CLOUDS: type 6, amt. 3   SEA: dir. 22, amt. 1
SWELL: dir. 22, amt. 1   VIS. 7   WATER TRANS. -

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# STATION 69

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DATE May 10, 1953  LAT. 34°18'N.  LONG. 76°32'W.  TIME 00
DEPTH 26  WIND 3, 20  BAR. 13  AIR TEMP: dry 22.2°C, wet 18.0°C
HUMIDITY 73%  WEATHER 13  CLOUDS: type 1, amt. 2  SEA: dir. 22,  amt. 2
SWELL: dir. 18,  amt. 1  VIS. 7  WATER TRANS. __

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STATION 71

DATE May 10, 1953   LAT. 34°04' N.   LONG. 76°15' W.   TIME 03

DEPTH 118   WIND 8, 32   BAR. 13   AIR TEMP: dry 22.2°C, wet 18.9°C
HUMIDITY 73%   WEATHER 03   CLOUDS: type __, amt. __   SEA: dir. 22, amt. 2
SWELL: dir. 18, amt. 1   VIS. 7   WATER TRANS. __

OBSERVED

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**STATION 72**

DATE May 10, 1933  LAT. 33°49'N.  LONG. 75°59'W.  TIME 07

DEPTH 594  WIND 6, 36  BAR. 12  AIR TEMP:  dry 22.2°C,  wet 17.2°C  HUMIDITY 61%  WEATHER 13 CLOUDS: type 2, amt. 3  SEA: dir. 36, amt. 2  SWELL: dir. 32, amt. 2  VIS. 6

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STATION 73

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HUMIDITY: 68%  WEATHER: 18 CLOUDS: type 4, amt. 2  SEA: dir. 09, amt. 2
SWELL: dir. 09, amt. 2  VIS: 6  WATER TRANS: -

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LAT: 34°24' N.
LONG: 75°36' W.
TIME: 18

DEEP: 2103
WIND: 12
BAR: 13

AIR TEMP: dry 21.7°C, wet 16.7°C
HUMIDITY: 61%
WEATHER: type 8, cloud: 2
SEA: dir. 36, amt. 3
SWELL: dir. 00, amt. 0

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* Value questionable

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STATION 75

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HUMIDITY 72% WEATHER 01 CLOUDS: type 0, amount 1
SEA: direction 04, amount 3
SWELL: direction 36, amount 4
VIS. 7
WATER TRANS.

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INTERPOLATED AND CALCULATED

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STATION 76

DATE May 11, 1953  LAT. 34°53' N.  LONG. 76°10' W.  TIME 03

DEPTH 14 WIND 5, 07 BAR. 14 AIR TEMP: dry 20.0 °C, wet 17.2 °C
HUMIDITY 76% WEATHER 02 CLOUDS: type, amt. SEA: dir. 04, amt. 2
SWELL: dir. 04, amt. 2 VIS. 6 WATER TRANS. -

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INTERPOLATED AND CALCULATED

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**STATION 77**

DATE May 11, 1953  LAT. 35°01'N.  LONG. 75°45'W.  TIME 06

DEPTH 21  WIND 5, 36  BAR. 13  AIR TEMP: dry 20.0°C, wet 16.1°C
HUMIDITY 67%  WEATHER 00  CLOUDS: type —, amt. —  SEA: dir. 00, amt. 0
SWELL: dir. 00, amt. 0  VIS. 6  WATER TRANS. —

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STATION 78

DATE May 11, 1953  LAT.  35°06' N.  LONG.  75°21' W.  TIME 09

DEPTH 30  WIND 10, 36  BAR.  12  AIR TEMP: dry 19.4°C, wet 16.1°C
HUMIDITY 71%  WEATHER 02  CLOUDS: type B, amt. 2  SEA: dir. 36, amt. 2
SWELL: dir. 36, amt. 3  VIS.: 7  WATER TRANS.

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DATE May 11, 1953 LAT. 34°57' N. LONG. 74°52' W. TIME 12
DEPTH 2743 WIND 14°, 36 BAR. 12 AIR TEMP: dry 21.7°C, wet 18.3°C
HUMIDITY 73% WEATHER 03 CLOUDS: type 3, amt. 2 SEA: dir. 36, amt. 4
SWELL: dir. 36, amt. 4 VIS. 7 WATER TRANS.

### OBSERVED

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DEPTH 3109  WIND 6, 36  BAR. 15  AIR TEMP: dry 23.3°C, wet 19.4°C
HUMIDITY 70%  WEATHER 01  CLOUDS: type 8, amt. 2  SEA: dir. 36, amt. 2
SWELL: dir. 04, amt. 3  VIS. 7  WATER TRANS.

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STATION Standard 1

DATE  April 19, 1953  LAT.  26°19'N.  LONG.  76°44'W.  TIME  21

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HUMIDITY 75%  WEATHER 03  CLOUDS: type 0, amt. 8  SEA: dir. 18, amt. 3
SWELL: dir., amt.  VIS. 7  WATER TRANS. 26

** From BT

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STATION Standard 2

DATE    April 19, 1953  LAT.   26°19' N.  LONG.  76°43' W.  TIME   24
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HUMIDITY 83.  WEATHER 03  CLOUDS: type ,amt.  SEA: dir.,amt.  SWELL: dir.,amt.  VIS.  WATER TRANS.

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STATION Standard 3

DATE April 20, 1953  LAT. 26°19'N.  LONG. 76°43'W.  TIME 02

DEPT 4754  WIND 7, 22  BAR. 16  AIR TEMP: dry 25.6°C, wet 23.3°C
HUMIDITY 82% WEATHER 01 CLOUDS: type _, amt. 0  SEA: dir. 22, amt. 2
SWELL: dir. ___, amt. ___ VIS. 8  WATER TRANS. ___

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233
STATION Standard 4

DATE April 20, 1953  LAT. 26°17'N.  LONG. 76°41'W.  TIME 05

DEPTH 4663  WIND 9, 22  BAR. 15  AIR TEMP: dry 25.0°C, wet 23.3°C

HUMIDITY 87%  WEATHER 01 CLOUDS: type, amt. 7  SEA: dir. 22, amt. 2

SWELL: dir. __, amt. __  VIS. 6  WATER TRANS. __

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* Value questionable
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INTERPOLATED AND CALCULATED

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STATION Standard 5

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HUMIDITY 87%  WEATHER 01  CLOUDS: type 8, amt. 3  SEA: dir. 20, amt. 2
SWELL: dir. __, amt. __  VIS: 7  WATER TRANS: __

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**STATION Standard 6**

DATE April 20, 1953  LAT. 26°19'N.  LONG. 76°44'W.  TIME 11
DEPTH 4572  WIND 6.  BAR. 15  AIR TEMP: dry 25.0°C, wet 22.8°C
HUMIDITY 83%  WEATHER 03  CLOUDS: type 3, amt. 7  SEA: dir. 20, amt. 2
Swell: dir. --, amt. --  VIS. 8  WATER TRANS. --

**OBSERVED**

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STATION Standard 7

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HUMIDITY 70 %  WEATHER 02 CLOUDS: type 8, amt. 1  SEA: dir. 36, amt. 2

SWELL: dir. 20, amt. 2  VIS. 8  WATER TRANS.

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241
STATION Standard 8

DATE April 20, 1953 LAT. 26°20' N. LONG. 76°44' W. TIME 22

DEPTH 14755 WIND 12, 34 BAR. 16 AIR TEMP: dry 22.2°C, wet 18.3°C HUMIDITY 69% WEATHER 60 CLOUDS: type 7, amt. 8 SEA: dir. 22, amt. 2 SWELL: dir. —, amt. — VIS. 8 WATER TRANS. —

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242
**STATION Standard 9**

DATE April 21, 1953  LAT. 26°20' N.  LONG. 76°44' W.  TIME 01

DEPTH 4755  WIND 8, 35  BAR. 18  AIR TEMP: dry 20.6°C, wet 16.1°C

HUMIDITY 63%  WEATHER 02  CLOUDS: type 0, amt. 3  SEA: dir. 36, amt. 3

SWELL: dir. --, amt. --  VIS. 7  WATER TRANS. --

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243
STATION Standard 10

DATE: April 21, 1953  LAT.: 26°18'N.  LONG.: 76°44'W.  TIME: 04

DEPTH: —  WIND: 7, 36  BAR: 18  AIR TEMP: dry 20.0°C, wet 14.2°C
HUMIDITY: 54%  WEATHER: CLOUDS: type_, amount_.  SEA: direction 32, amount 2
SWELL: 36, amount 3  VIS.: 7  WATER TRANS.:

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STATION Special 1

DATE May 13, 1953   LAT. 34° 30' N.   LONG. 74° 16' W.   TIME 01
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SWELL: dir. --, amt. --   VIS. 7   WATER TRANS. --

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* Value questionable
## STATION Special 1

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STATION Special 2

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HUMIDITY 74%  WEATHER 02  CLOUDS: type _, amt. _  SEA: dir. _, amt. _
SWELL: dir. _, amt. _  VIS. 7  WATER TRANS. _

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STATION Special 3

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HUMIDITY 91%  WEATHER 02  CLOUDS: type _, amt. 0  SEA: dir. _, amt. 1
SWELL: dir. _, amt.  _  VIS. 6  WATER TRANS. _

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SWELL: dir.-, amt.-  VIS.: 7  WATER TRANS.-

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HUMIDITY 48%  WEATHER 03  CLOUDS: type 8, amt. 6  SEA: dir. 18, amt. 2
SWELL: dir. 09, amt. 1  VIS. 7  WATER TRANS.

STATION Special 6

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STATION Special 7

DATE April 18, 1953   LAT. 28°00' N.   LONG. 77°00' W.   TIME 19

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HUMIDITY 61% WEATHER 02 CLOUDS: type _,amt. 0 SEA: dir. 16, amt. 2

SWELL: dir. _, amt. _ VIS. 8 WATER TRANS._

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**STATION** Special 8

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HUMIDITY 78% WEATHER 02 CLOUDS: type , amt. 0 SEA: dir. 16 , amt. 3

SWELL: dir. , amt. VIS. 8 WATER TRANS.

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**INTERPOLATED AND CALCULATED**

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### STATION Special 9

**DATE** April 24, 1953  **LAT.** 28°00' N.  **LONG.** 79°01' W.  **TIME** 04 **DEPTH** 732  **WIND** 14, 09  **BAR.** 17  **AIR TEMP:** dry 21.7°C, wet 17.8°C  **HUMIDITY:** 68%  **WEATHER:** 02  **CLOUDS:** type-, amt. 2  **SEA:** dir. 09, amt. 1  **SWELL:** dir. --, amt. --  **VIS.** 8  **WATER TRANS.**

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* Value questionable  
** From BT

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