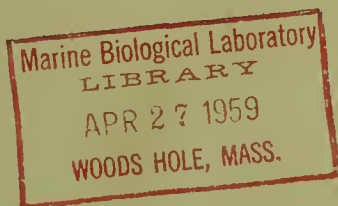


PHYSICAL OCEANOGRAPHIC,
BIOLOGICAL, AND CHEMICAL DATA--
SOUTH ATLANTIC COAST
OF THE UNITED STATES

Gill Cruise 7



SPECIAL SCIENTIFIC REPORT-FISHERIES No. 278

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FISH AND WILDLIFE SERVICE

EXPLANATORY NOTE

The series embodies results of investigations, usually of restricted scope, intended to aid or direct management or utilization practices and as guides for administrative or legislative action. It is issued in limited quantities for official use of Federal, State or cooperating agencies and in processed form for economy and to avoid delay in publication.

United States Department of the Interior, Fred A. Seaton, Secretary
Fish and Wildlife Service, Arnie J. Suomela, Commissioner



PHYSICAL OCEANOGRAPHIC, BIOLOGICAL, AND CHEMICAL DATA
SOUTH ATLANTIC COAST OF THE UNITED STATES
M/V THEODORE N. GILL CRUISE 7

by

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United States Fish and Wildlife Service
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PHYSICAL OCEANOGRAPHIC, BIOLOGICAL, AND CHEMICAL DATA
SOUTH ATLANTIC COAST OF THE UNITED STATES
M/V THEODORE N. GILL CRUISE 7

This is the seventh 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). Biological methods and procedures were the same as those modified on Cruise 3 (Anderson and Gehringer, 1957). The basic station plan is shown in figure 1.

NARRATIVE ACCOUNT OF CRUISE 7

The Gill sailed from Brunswick, Georgia on June 9, 1954 and headed for special station 5 to begin the southern leg of the cruise. Special station 5 was reached and occupied on June 10, and special stations 6 and 7 were made on June 11. On June 12 the vessel occupied special station 8 and proceeded to the standard station off Elbow Cay, B.W.I. From June 12 to 14 the standard station was occupied for 42 continuous hours, during which time 15 hydrographic casts were made, including one to 2500 meters. Fathometer traces were taken on this station for 10 minutes every hour, and special plankton tows made in a study of the deep scattering layer. Routine meteorological and bathythermograph observations were also taken.

The vessel docked at Nassau, B.W.I., on June 14 for installation of special equipment by Columbia University personnel. On June 16 and 17 special ambient work was conducted at the standard station. The ship then proceeded into the Tongue of the Ocean, where additional ambient observations were carried out. Continuous sonic soundings were taken during this run for correlation with the ambient work. The vessel returned to Nassau, and the special equipment was unloaded on June 21. Occupation of the regular stations began on June 23. Excellent weather prevailed during

the remainder of the southern leg, resulting in 100 percent completion of the projected stations. The vessel returned to Brunswick on June 28 for supplies and to unload material collected.

The Gill departed from Brunswick to begin the northern leg of the cruise on July 1. Favorable weather prevailed until the vicinity of Cape Lookout, North Carolina was reached, where rain squalls and winds up to about 50 knots forced the vessel into port at Morehead City, North Carolina. After the vessel resumed work, all but one of the remaining regular stations were accomplished before bad weather caused termination of the cruise. The vessel returned to Brunswick on July 13. The cruise track is shown in figure 2.

The vessel traveled over 3,000 miles in making this cruise, occupying 100 hydrographic stations (including regular, special, standard, and Tongue of the Ocean) with Nansen casts (fig. 3) and bathythermograph lowerings on each station. Oxygen determinations were made aboard vessel for all stations and all levels. Water samples were secured from all stations and levels for shore analysis of salinity, total phosphorus, inorganic phosphate, carbohydrates, proteins, and nitrate-nitrite. Secchi disk readings were taken during daylight hours when conditions permitted. Bottom samples were secured on selected stations where several samples had not been collected on previous cruises. Oblique plankton tows were made with the Gulf III all-metal plankton sampler on all but one of the regular and special stations--a silk net was used on this one station due to heavy seas. Seventy-five runs between stations were obtained with the Gulf IA high-speed plankton sampler, and 31 runs were made with the continuous plankton sampler. Dip-net collections (fig. 4) were good on the southern leg of the cruise but poor on the northern leg. Trolling with nylon and bone jigs between stations was more successful than on most previous cruises. Several trolling lines were also carried away by large fish.

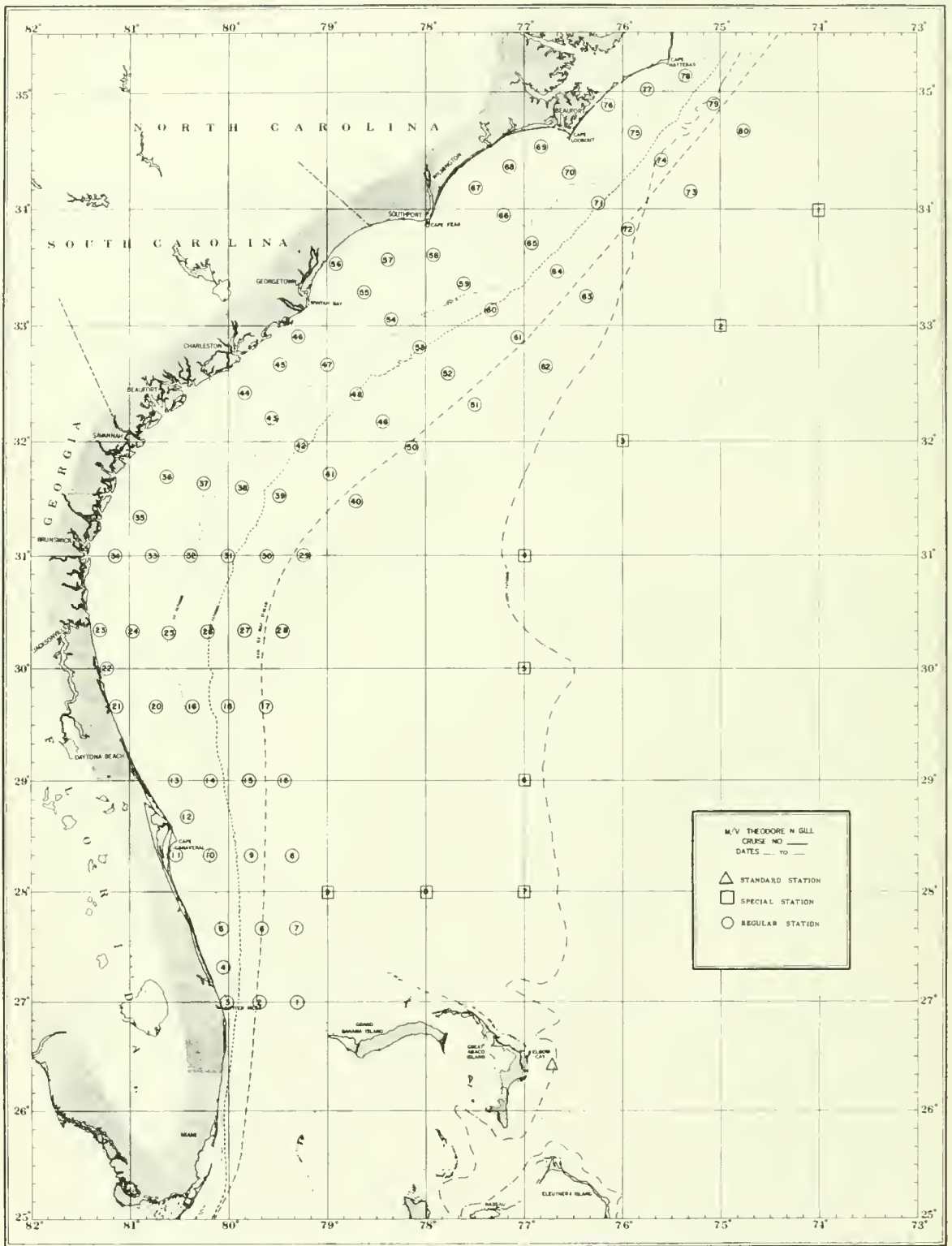


Figure 1.--Basic station plan.

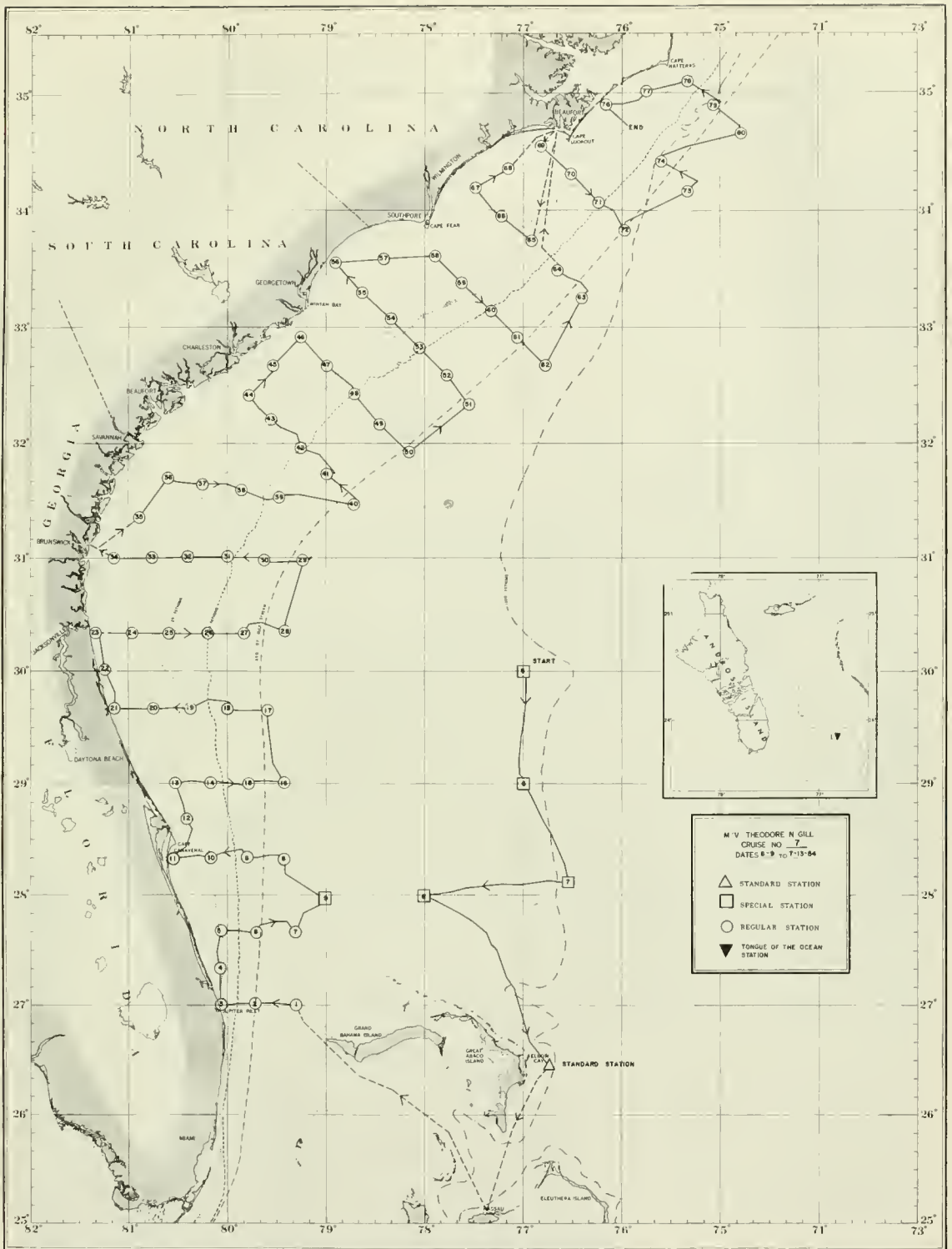


Figure 2.--Track chart.



Figure 3.--Placing full Nansen bottle in rack during hydrographic cast.



Figure 4.--Dip-netting in seaweed for fish specimens.

Twelve drift bottles were released for the Woods Hole Oceanographic Institution on each of 40 inshore stations. The bottles used were 8-ounce, clear glass soda bottles approximately 22 cm. high and 6 cm. in diameter. To reduce wind drift the bottles were ballasted with clean dry sand, so that they floated vertically at or near the surface. The tabulated results are given in table 16.

Lightning struck the vessel during a severe rain squall early on the southern leg, damaging the radio antenna, some electronic equipment, other electric equipment, and the ship's magnetic compass. No one was injured by the incident.

Scientific personnel participating in the cruise were:

I. Southern Leg

U. S. Fish and Wildlife Service and Cooperators:

| | |
|---------------------|--|
| William W. Anderson | Chief Scientist |
| Jack W. Gehringer | Fishery Research Biologist |
| Joseph E. Moore | Chemist (Georgia Game and Fish Commission) |
| Charles P. Goodwin | Chemical Aid |

Navy Hydrographic Office:

| | |
|------------------|----------------------|
| Melvin Light | Senior Oceanographer |
| Clarence Janifer | Oceanographer |
| John Duncan | Oceanographer |

Office of Naval Research:

| | |
|-------------------|---------------------------------------|
| Robert A. Pedrick | Chemist (Chesapeake Bay Institute) |
|-------------------|---------------------------------------|

II. Northern Leg

U. S. Fish and Wildlife Service and Cooperators:

| | |
|---------------------|-------------------------------|
| William W. Anderson | Chief Scientist |
| Jack W. Gehringer | Fishery Research Biologist |
| Charles P. Goodwin | Chemical Aid |

Navy Hydrographic Office:

| | |
|------------------|----------------------|
| Melvin Light | Senior Oceanographer |
| Clarence Janifer | Oceanographer |
| William Deebel | Oceanographer |
| C. W. Backus | Technician |

Office of Naval Research:

| | |
|---------------|--|
| Blair Kinsmin | Oceanographer (Chesapeake Bay Institute) |
|---------------|--|

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 are 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 7 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 36 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 1000. 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.
3. Salinity. Salinity is given in parts per thousand to two decimal places.
4. Sigma-t. To convert 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 of a unit.
7. Inorganic Phosphate. Values are given in microgram atoms per liter to the nearest 0.1 of a unit.
8. Nitrate-nitrite. These values are given in microgram atoms per liter to the nearest 0.5 of a unit.
9. Carbohydrates (Arabinose). These values are given in terms of milligrams per liter to the nearest 0.1 of a 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 of a unit as milligrams per liter of protein material in sea water, which reacts to the test for tyrosine.

Biological

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 thence every 1000meters.
2. Temperature. The centigrade temperature is given in degrees and hundredths.
1. Plankton volumes (Gulf III and silk half-meter nets), 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 1). Very few samples contained large organisms such as jellyfish (which were removed), so that the volumes represent smaller organisms.

2. Plankton volumes (Gulf IA High-speed sampler), table 9. The position given is that at the center of the tow. All tows were made at the surface. The volumes as given are "wet volumes" (procedures for determination were given under methods in report for cruise 1). Very few samples contained large organisms such as jellyfish (which were removed), so that the volumes represent smaller organisms.
 3. Numbers of plankton organisms per cubic meter of water (half-meter net), table 10. 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.
 4. Numbers of plankton organisms per cubic meter of water (high-speed sampler), table 11. The procedures for plankton tows, methods for sorting and counting, and calculations of numbers of organisms were described under methods for cruise 3. Counts are given for major groups as indicated.
 5. Numbers of plankton organisms per cubic meter of water (continuous plankton sampler), table 12. Description of this sampler, its use, and methods of calculating numbers of organisms were given under methods in report for cruise 1. Counts are given by compartment for major groups as indicated.
 6. List of the species of fish in dip-net, trolling, and stomach contents collections (D-dip net; T-trolling; S-stomach contents), table 13. The species are listed in alphabetical order, followed by symbols indicating method of capture.
 7. Numbers and species of fish taken by trolling, table 14. The stage of gonad development is based on International Council classifications of gonad maturity for the herring (International Councils 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.
 8. Numbers and species of fish taken by dip net, table 15. 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.
- 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 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.

This scale follows:

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 E. Moore, chemist (now a member of Fish and Wildlife Service staff). 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; Hugh M. Fields, Donald Moore, Louis E. Vogele, and Melba C. Wilson for the plankton organism identifications and counts; Edward Cohen (formerly chemist) for chemical determinations; and Joseph E. Moore for assistance in assembling the physical and chemical data. We also appreciate the assistance of other members of the staff who aided in one way or another: Charles P. Goodwin, Herbert R. Gordy, Jayne Buchanan, Mary E. Cobb, and E. Reid Poe. Acknowledgment is 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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1953. Effect of dissolved organic substances on oysters. Fish Bull. Fish and Wildlife Service, 54(84): 167-185, figs. 1-14.

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

| <u>Code</u> | <u>Direction</u> |
|-------------|------------------|
| 00 ----- | Calm |
| 01 ----- | 5° to 14° |
| 02 ----- | 15° to 24° NNE |
| 03 ----- | 25° to 34° |
| 04 ----- | 35° to 44° |
| 05 ----- | 45° to 54° NE |
| 06 ----- | 55° to 64° |
| 07 ----- | 65° to 74° ENE |
| 08 ----- | 75° to 84° |
| 09 ----- | 85° to 94° E |
| 10 ----- | 95° to 104° |
| 11 ----- | 105° to 114° ESE |
| 12 ----- | 115° to 124° |
| 13 ----- | 125° to 134° |
| 14 ----- | 135° to 144° SE |
| 15 ----- | 145° to 154° |
| 16 ----- | 155° to 164° SSE |
| 17 ----- | 165° to 174° |
| 18 ----- | 175° to 184° S |
| 19 ----- | 185° to 194° |
| 20 ----- | 195° to 204° SSW |
| 21 ----- | 205° to 214° |
| 22 ----- | 215° to 224° |
| 23 ----- | 225° to 234° SW |
| 24 ----- | 235° to 244° |
| 25 ----- | 245° to 254° WSW |
| 26 ----- | 255° to 264° |
| 27 ----- | 265° to 274° W |
| 28 ----- | 275° to 284° |
| 29 ----- | 285° to 294° WNW |
| 30 ----- | 295° to 304° |
| 31 ----- | 305° to 314° |
| 32 ----- | 315° to 324° NW |
| 33 ----- | 325° to 334° |
| 34 ----- | 335° to 344° NNW |
| 35 ----- | 345° to 354° |
| 36 ----- | 355° to 4° N |

TABLE II NUMERICAL WEATHER CODES—PRESENT WEATHER

| | | | | | | | | | | | | | | | | | | | |
|----|---|----|--|----|---|----|--|----|---|----|--|----|---|----|---|----|--|----|--|
| 00 | Cloud development NOT observed or NOT observable during past hour. | 01 | Clouds generally dissolving or becoming less developed during past hour. | 02 | State of sky on the whole unchanged during past hour. | 03 | Clouds generally forming or developing during past hour. | 04 | Visibility reduced by smoke. | 05 | Haze. | 06 | Widespread dust in suspension in the air, NOT raised by wind, at time of observation. | 07 | Dust or sand raised by wind, at time of observation. | 08 | Well developed dust devil(s) within past hour. | 09 | Duststorm or sand storm within sight of station during past hour. |
| 10 | Light fog. | 11 | Patches of shallow fog at station, NOT deeper than 6 feet on land. | 12 | More or less continuous shallow fog at station, NOT deeper than 6 feet on land. | 13 | Lightning visible, no thunder heard. | 14 | Precipitation within sight but NOT reaching the ground. | 15 | Precipitation within sight reaching the ground but distant from station. | 16 | Precipitation within sight reaching the ground, near to but NOT at station. | 17 | Thunder heard, but no explanation at time of observation. | 18 | Small(s) within sight during past hour. | 19 | Funnel cloud(s) within sight during past hour. |
| 20 | Drizzle (NOT freezing) or rain falling as showers during past hour, but NOT at time of observation. | 21 | Rain (NOT freezing) and falling as showers during past hour, but NOT at time of observation. | 22 | Snow (NOT falling as showers) during past hour, but NOT at time of observation. | 23 | Rain and snow (NOT falling as showers) during past hour, but NOT at time of observation. | 24 | Freezing drizzle or freezing rain during past hour, but NOT at time of observation. | 25 | Showers of rain during past hour, but NOT at time of observation. | 26 | Showers of snow, or of rain and snow, during past hour, but NOT at time of observation. | 27 | Showers of hail, or of hail and rain, during past hour, but NOT at time of observation. | 28 | Fog during past hour, but NOT at time of observation. | 29 | Thunderstorm (with or without precipitation) during past hour, but NOT at time of observation. |
| 30 | Slight or moderate duststorm or sandstorm has decreased during past hour. | 31 | Slight or moderate duststorm or sandstorm has increased during past hour. | 32 | Slight or moderate duststorm or sandstorm has decreased during past hour. | 33 | Severe duststorm or sandstorm, has decreased during past hour. | 34 | Severe duststorm or sandstorm, no appreciable change during past hour. | 35 | Severe duststorm or sandstorm, has increased during past hour. | 36 | Slight or moderate drifting snow, generally low. | 37 | Heavy drifting snow, generally low. | 38 | Slight or moderate drifting snow, generally high. | 39 | Heavy drifting snow, generally high. |
| 40 | Fog at distance at time of observation, but NOT at station during past hour. | 41 | Fog in patches during past hour. | 42 | Fog, sky discernible, but not near during past hour. | 43 | Fog, sky NOT discernible, but near during past hour. | 44 | Fog, sky discernible, but not changing during past hour. | 45 | Fog, sky NOT discernible, but changing during past hour. | 46 | Fog, sky discernible, but becoming thicker during past hour. | 47 | Fog, sky NOT discernible, but becoming thicker during past hour. | 48 | Fog, depositing rime, sky not discernible. | 49 | Fog depositing rime, sky not discernible. |
| 50 | Intermittent drizzle (NOT freezing) slight at time of observation. | 51 | Continuous drizzle (NOT freezing) slight at time of observation. | 52 | Intermittent drizzle (NOT freezing) moderate at time of observation. | 53 | Continuous drizzle (NOT freezing) moderate at time of observation. | 54 | Intermittent drizzle (NOT freezing), thick at time of observation. | 55 | Continuous drizzle (NOT freezing), thick at time of observation. | 56 | Slight freezing drizzle. | 57 | Moderate or thick freezing drizzle. | 58 | Drizzle and rain, slight. | 59 | Drizzle and rain, moderate or heavy. |
| 60 | Intermittent rain (NOT freezing) slight at time of observation. | 61 | Continuous rain (NOT freezing) slight at time of observation. | 62 | Intermittent rain (NOT freezing) moderate at time of observation. | 63 | Continuous rain (NOT freezing) moderate at time of observation. | 64 | Intermittent rain (NOT freezing), heavy at time of observation. | 65 | Continuous rain (NOT freezing), heavy at time of observation. | 66 | Slight freezing rain. | 67 | Moderate or heavy freezing rain. | 68 | Rain or drizzle and snow, slight. | 69 | Rain or drizzle and snow, moderate or heavy. |
| 70 | Intermittent fall of snowflakes, slight at time of observation. | 71 | Continuous fall of snowflakes, slight at time of observation. | 72 | Intermittent fall of snowflakes, moderate at time of observation. | 73 | Continuous fall of snowflakes, moderate at time of observation. | 74 | Intermittent fall of snowflakes, heavy at time of observation. | 75 | Continuous fall of snowflakes, heavy at time of observation. | 76 | Ice needles (with or without fog). | 77 | Granular snow (with or without fog). | 78 | Isolated starlike snow crystals (with or without fog). | 79 | Ice pellets (sleet) (with or without U.S. definition). |
| 80 | Slight rain (snowflakes). | 81 | Moderate or heavy rain (snowflakes). | 82 | Violent rain (snowflakes). | 83 | Slight shower(s) of rain and snow mixed. | 84 | Moderate or heavy shower(s) of rain and snow mixed. | 85 | Slight snow shower(s). | 86 | Moderate or heavy snow shower(s). | 87 | Slight shower(s) of rain or snow, without rain or rain and snow mixed. | 88 | Moderate or heavy shower(s) of soft or small hail with or without rain or rain and snow mixed. | 89 | Slight shower(s) of hail with or without rain or rain and snow mixed, not associated with thunder. |
| 90 | Moderate or heavy shower(s) of hail with or without rain or rain and snow mixed, associated with thunder. | 91 | Slight rain at time of observation, but NOT at time of observation. | 92 | Moderate or heavy rain at time of observation, but NOT at time of observation. | 93 | Slight snow or rain and snow mixed, moderate or heavy thunderstorm during past hour, but not at time of observation. | 94 | Mod or heavy snow, or rain and snow mixed, moderate or heavy thunderstorm during past hour, but not at time of observation. | 95 | Slight or moderate duststorm without hail, but with rain and/or snow at time of observation. | 96 | Slight or moderate duststorm, with hail, but not at time of observation. | 97 | Heavy thunderstorm, without hail, but with rain and/or snow at time of observation. | 98 | Thunderstorm combined with duststorm at time of observation. | 99 | Heavy thunderstorm with hail at time of observation. |

Table 2.--Numerical weather codes--present weather

Table 3.--Cloud type

Code

| | |
|---|--------------------------|
| 0 | Stratus or Fractostratus |
| 1 | Cirrus |
| 2 | Cirrostratus |
| 3 | Cirrocumulus |
| 4 | Alto cumulus |
| 5 | Altostratus |
| 6 | Stratuscumulus |
| 7 | Nimbostratus |
| 8 | Cumulus or Fractocumulus |
| 9 | Cumulonimbus |

Table 4.--Cloud amount

Code

| | |
|---|------------------------|
| 0 | No clouds |
| 1 | Less than 1/10 or 1/10 |
| 2 | 2/10 and 3/10 |
| 3 | 4/10 |
| 4 | 5/10 |
| 5 | 6/10 |
| 6 | 7/10 and 8/10 |
| 7 | 9/10 and 9/10 plus |
| 8 | 10/10 |
| 9 | Sky obscured |

Table 5.--Sea amount

| <u>Code</u> | <u>Approximate Height (feet)</u> | <u>Description</u> |
|-------------|--------------------------------------|----------------------------|
| 0 | ----- | Calm |
| 1 | Less than 1 | Smooth |
| 2 | 1 to 3 | Slight |
| 3 | 3 to 5 | Moderate |
| 4 | 5 to 8 | Rough |
| 5 | 8 to 12 | Very rough |
| 6 | 12 to 20 | High |
| 7 | 20 to 40 | Very high |
| 8 | 40 and over | Mountainous |
| 9 | ----- | Very rough confused sea |

Table 6.--Swell amount

| Code | : Approximate • Height (feet) | : Description | : Approximate Length (feet) |
|------|-------------------------------------|---------------|-----------------------------------|
| 0 | ---- | No swell | ---- |
| 1 | 1 to 6 | Low swell | Short or: 0 to 600 Average : |
| 2 | | | Long : Above 600 |
| 3 | | | Short : 0 to 300 |
| 4 | 6 to 12 | Moderate | Average : 300 to 600 |
| 5 | | | Long : Above 600 |
| 6 | | | Short : 0 to 300 |
| 7 | Greater | High | Average : 300 to 600 |
| 8 | than 12 | | Long : Above 600 |
| 9 | ---- | Confused | ---- |

Table 7. Visibility

Code

| | | |
|---|----------------------------|---------------|
| 0 | Dense fog ----- | 50 yards |
| 1 | Thick fog ----- | 200 yards |
| 2 | Fog ----- | 400 yards |
| 3 | Moderate fog ----- | 1000 yards |
| 4 | Thin fog or mist ----- | 1 mile |
| 5 | Visibility poor ----- | 2 miles |
| 6 | Visibility moderate ----- | 5 miles |
| 7 | Visibility good ----- | 10 miles |
| 8 | Visibility very good ----- | 30 miles |
| 9 | Visibility excellent ----- | Over 30 miles |

Table 8.--Plankton volumes (Gulf III and silk half-meter nets)

| Sta. | Position | | (1954) Date | Time (EST) | | Vol. water strained (m ³) | Depth of haul in meters | Vol. per m ³ strained (ml) |
|------|----------|----------|----------------|------------|------|--|-------------------------------|--|
| | N. Lat. | W. Long. | | Start | End | | | |
| 1 | 27°00' | 79°18' | June 22 | 0354 | 0426 | 253.0 | 0-65 | 0.059 |
| 2 | 27°01' | 79°40' | June 23 | 0749 | 0820 | 261.0 | 0-65 | 0.096 |
| 3 | 27°00' | 80°04' | June 23 | 1026 | 1047 | 117.1 | 0-8 | 0.085 |
| 4 | 27°20' | 80°04' | June 23 | 1259 | 1320 | 125.5 | 0-13 | 0.358 |
| 5 | 27°40' | 80°04' | June 23 | 1541 | 1603 | 138.0 | 0-17 | 0.275 |
| 6 | 27°39' | 79°42' | June 23 | 1925 | 2000 | 247.5 | 0-69 | 0.069 |
| 7 | 27°40' | 79°18' | June 23- 24 | 2353 | 0029 | 295.4 | 0-69 | 0.068 |
| 8 | 28°19' | 79°26' | June 24 | 0805 | 0837 | 222.5 | 0-69 | 0.045 |
| 9 | 28°20' | 79°48' | June 24 | 1118 | 1148 | 239.7 | 0-73 | 0.062 |
| 10 | 28°20' | 80°10' | June 24 | 1401 | 1424 | 98.5 | 0-17 | 0.203 |
| 11 | 28°20' | 80°33' | June 24 | 1651 | 1712 | 122.6 | 0-4 | 0.326 |
| 12 | 28°41' | 80°25' | June 24 | 2000 | 2022 | 106.9 | 0-9 | 0.187 |
| 13 | 29°00' | 80°32' | June 24 | 2234 | 2256 | 87.7 | 0-10 | 0.308 |
| 14 | 29°00' | 80°10' | June 25 | 0122 | 0146 | 62.1 | 0-34 | 0.483 |
| 15 | 28°59' | 79°48' | June 25 | 0535 | 0607 | 286.2 | 0-65 | 0.045 |
| 16 | 29°00' | 79°26' | June 25 | 0943 | 1014 | 244.2 | 0-73 | 0.061 |
| 17 | 29°38' | 79°36' | June 25 | 1439 | 1510 | 258.0 | 0-65 | 0.058 |
| 18 | 29°40' | 80°00' | June 25 | 1834 | 1907 | 245.5 | 0-69 | 0.110 |
| 19 | 29°40' | 80°22' | June 25 | 2148 | 2209 | 191.1 | 0-10 | 0.078 |
| 20 | 29°40' | 80°45' | June 26 | 0027 | 0048 | 64.6 | 0-15 | 0.418 |
| 21 | 29°40' | 81°08' | June 26 | 0246 | 0308 | 75.4 | 0-10 | 0.358 |
| 22 | 30°01' | 81°14' | June 26 | 0542 | 0604 | 58.3* | 0-5 | 0.686* |
| 23 | 30°20' | 81°20' | June 26 | 0828 | 0851 | 152.9 | 0-5 | 0.229 |
| 24 | 30°20' | 80°58' | June 26 | 1106 | 1127 | 113.3 | 0-7 | 0.353 |
| 25 | 30°20' | 80°36' | June 26 | 1350 | 1417 | 137.2 | 0-9 | 0.146 |
| 26 | 30°20' | 80°12' | June 26 | 1701 | 1733 | 142.4 | 0-69 | 0.176 |
| 27 | 30°20' | 79°50' | June 26 | 2105 | 2137 | 222.6 | 0-69 | 0.045 |
| 28 | 30°21' | 79°26' | June 27 | 0035 | 0107 | 239.3 | 0-65 | 0.104 |
| 29 | 30°58' | 79°14' | June 27 | 0526 | 0558 | 159.5 | 0-177 | 0.063 |
| 30 | 30°58' | 79°38' | June 27 | 1129 | 1202 | 198.4 | 0-106 | 0.050 |
| 31 | 31°00' | 80°00' | June 27 | 1512 | 1533 | 107.8 | 0-16 | 0.139 |
| 32 | 31°00' | 80°23' | June 27 | 1747 | 1810 | 78.3 | 0-15 | 0.192 |
| 33 | 31°00' | 80°46' | June 27 | 2122 | 2151 | 126.6 | 0-8 | 0.197 |
| 34 | 31°00' | 81°08' | June 28 | 0001 | 0023 | 61.1 | Surface | 0.818 |
| 35 | 31°21' | 80°53' | July 2 | 0113 | 0135 | 140.2 | 0-14 | 0.428 |
| 36 | 31°42' | 80°36' | July 2 | 0429 | 0451 | 74.2 | 0-9 | 0.404 |
| 37 | 31°38' | 80°15' | July 2 | 0731 | 0753 | 110.0 | 0-17 | 0.318 |
| 38 | 31°36' | 79°52' | July 2 | 1023 | 1043 | 94.0 | 0-20 | 0.213 |
| 39 | 31°32' | 79°28' | July 2 | 1337 | 1367 | 131.8 | 0-69 | 0.190 |
| 40 | 31°28' | 78°43' | July 2 | 1816 | 1848 | 258.8 | 0-65 | 0.058 |
| 41 | 31°43' | 79°00' | July 2- 3 | 2353 | 0025 | 200.0 | 0-65 | 0.090 |

* Questioned value

Table 8.--Plankton volumes (Gulf III and silk half-meter nets), cont'd

| Sta. | Position | | (1954) Date | Time (EST) | | Vol. water strained (m ³) | Depth of haul in meters | Vol. per m ³ strained (ml) |
|--------|----------|----------|----------------|------------|------|--|-------------------------------|--|
| | N. Lat. | W. Long. | | Start | End | | | |
| 42 | 31°58' | 79°16' | July 3 | 0343 | 0415 | 121.5 | 0-69 | 0.412 |
| 43 | 32°12' | 79°33' | July 3 | 0651 | 0712 | 104.2 | 0-14 | 0.240 |
| 44 | 32°26' | 79°48' | July 3 | 0924 | 0946 | 261.0 | 0-9 | 0.172 |
| 45 | 32°40' | 79°32' | July 3 | 1138 | 1159 | 56.0 | 0-10 | 0.804 |
| 46 | 32°54' | 79°16' | July 3 | 1414 | 1436 | 51.9 | 0-5 | 0.385 |
| 47 | 32°40' | 79°00' | July 3 | 1705 | 1726 | 195.3 | 0-11 | 0.102 |
| 48 | 32°26' | 78°43' | July 3 | 2037 | 2109 | 137.4 | 0-82 | 0.364 |
| 49 | 32°10' | 78°28' | July 4 | 0016 | 0047 | 162.4 | 0-69 | 0.277 |
| 51 | 32°20' | 77°33' | July 4 | 0833 | 0906 | 127.8 | 0-77 | 0.509 |
| 52 | 32°35' | 77°47' | July 4 | 1203 | 1234 | 185.6 | 0-86 | 0.269 |
| 53 | 32°49' | 78°04' | July 4 | 1513 | 1545 | 152.9 | 0-77 | 0.242 |
| 54 | 33°03' | 78°21' | July 4 | 1822 | 1843 | 104.7 | 0-15 | 0.239 |
| 55 | 33°18' | 78°38' | July 4 | 2110 | 2132 | 76.6 | 0-10 | 0.196 |
| 56 | 33°32' | 78°54' | July 5 | 1203 | 1224 | 126.7 | Surface | 0.276 |
| 57 | 33°34' | 78°24' | July 5 | 0315 | 0337 | 118.0 | 0-10 | 0.551 |
| 58 | 33°36' | 77°54' | July 5 | 0638 | 0701 | 151.1 | 0-10 | 0.265 |
| 59 | 33°22' | 77°38' | July 5 | 0931 | 0952 | 149.8 | 0-15 | 0.134 |
| 60 | 33°08' | 77°20' | July 5 | 1302 | 1334 | 209.8 | 0-73 | 0.110 |
| 61 | 32°54' | 77°03' | July 5 | 1653 | 1724 | 296.5 | 0-86 | 0.050 |
| 62 | 32°40' | 76°46' | July 5 | 2112 | 2143 | 241.9 | 0-65 | 0.186 |
| 63 | 33°13' | 76°24' | July 6 | 0137 | 0208 | 191.0 | 0-86 | 0.026 |
| 64* | 33°28' | 76°39' | July 6 | 0546 | 0615 | ** | 0-102 | - |
| 65 | 33°43' | 76°56' | July 7 | 1436 | 1458 | 160.2 | 0-18 | 0.156 |
| 66 | 33°57' | 77°13' | July 7 | 1725 | 1747 | 202.2 | 0-15 | 0.099 |
| 67 | 34°11' | 77°30' | July 7 | 2013 | 2034 | 147.4 | Surface | 0.339 |
| 68 | 34°21' | 77°09' | July 7 | 2255 | 2315 | 123.1 | Surface | 0.203 |
| 69 | 34°32' | 76°49' | July 10 | 0624 | 0645 | 128.2 | 0-5 | 0.273 |
| 70 | 34°18' | 76°32' | July 10 | 0911 | 0937 | 105.4 | 0-15 | 0.237 |
| 71 | 34°04' | 76°14' | July 10 | 1237 | 1308 | 167.7 | 0-77 | 0.119 |
| 72 | 33°50' | 75°59' | July 10 | 1645 | 1716 | 224.1 | 0-66 | 0.134 |
| 73 | 34°10' | 75°20' | July 11 | 0013 | 0043 | 253.7 | 0-62 | 0.059 |
| 74 | 34°24' | 75°36' | July 11 | 0428 | 0459 | 217.2 | 0-70 | 0.092 |
| 76 | 34°53' | 76°10' | July 12 | 0010 | 0032 | 95.4 | Surface | 0.367 |
| 77 | 35°01' | 75°45' | July 11 | 2122 | 2142 | 102.6 | Surface | 0.438 |
| 78 | 35°06' | 75°20' | July 11 | 1819 | 1839 | 129.0 | Surface | 0.155 |
| 79 | 34°53' | 75°04' | July 11 | 1453 | 1523 | 219.7 | 0-73 | 0.046 |
| 80 | 34°39' | 74°48' | July 11 | 1112 | 1142 | ** | 0-109 | - |
| Spc. 5 | 30°00' | 77°00' | June 10 | 2042 | 2114 | 215.4 | 0-82 | 0.046 |
| Spc. 6 | 29°00' | 77°00' | June 11 | 0717 | 0749 | 243.8 | 0-77 | 0.041 |
| Spc. 7 | 28°07' | 76°32' | June 11 | 1622 | 1654 | 249.0 | 0-86 | 0.020 |
| Spc. 8 | 28°00' | 78°00' | June 12 | 0320 | 0351 | 255.3 | 0-60 | 0.059 |
| Spc. 9 | 27°57' | 79°00' | June 24 | 0328 | 0358 | 219.6 | 0-69 | 0.091 |

* No. 1 silk half-meter net

** No water volume determined

Table 9.--Plankton volumes (Gulf IA High-speed sampler)

| Tow No. | Position of ship at center of tow: | | | Time (EST) | | Vol. | Vol. per |
|------------|---------------------------------------|----------|-----------------------|------------|------|--|------------------------------------|
| | N. Lat. | W. Long. | (1954) Date | Start | End | water strained (m ³) | m ³ strained (ml) |
| 1 | 27°01' | 79°28' | June 23 | 0427 | 0634 | 25.0 | 0.080 |
| 2 | 27°00' | 79°53' | June 23 | 0825 | 0940 | 13.3 | 0.677 |
| 3 | 27°10' | 80°03' | June 23 | 1050 | 1220 | 15.8 | 0.190 |
| 4 | 27°29' | 80°06' | June 23 | 1322 | 1500 | 17.7 | 0.282 |
| 5 | 27°40' | 79°53' | June 23 | 1606 | 1806 | 21.7 | 0.138 |
| 6 | 27°46' | 79°31' | June 23 | 1957 | 2158 | 23.1 | 0.043 |
| 7 | 27°51' | 79°09' | June 24 | 0032 | 0210 | 18.7 | 0.107 |
| 8 | 28°05' | 79°15' | June 24 | 0358 | 0615 | 27.2 | 0.037 |
| 9 | 28°20' | 79°36' | June 24 | 0837 | 1004 | 16.0 | 0.062 |
| 10 | 28°22' | 79°57' | June 24 | 1150 | 1313 | 15.0 | 0.133 |
| 11 | 28°21' | 80°19' | June 24 | 1427 | 1545 | 13.8 | 0.145 |
| 12 | 28°28' | 80°24' | June 24 | 1715 | 1925 | 23.3 | 0.086 |
| 13 | 28°49' | 80°28' | June 24 | 2025 | 2150 | 15.0 | 0.333 |
| 14 | 29°00' | 80°24' | June 24 ²⁵ | 2258 | 0040 | 17.1 | 0.292 |
| 15 | 28°59' | 80°00' | June 25 | 0148 | 0355 | 22.0 | 0.273 |
| 16 | 29°02' | 79°38' | June 25 | 0608 | 0740 | 17.2 | 0.058 |
| 17 | 29°24' | 79°34' | June 25 | 1135 | 1305 | 17.7 | 0.056 |
| 18 | 29°39' | 79°47' | June 25 | 1512 | 1655 | 19.1 | 0.052 |
| 19 | 29°45' | 80°11' | June 25 | 1907 | 2050 | 20.4 | 0.245 |
| 20 | 29°41' | 80°32' | June 25 | 2215 | 2345 | 15.7 | 0.318 |
| 21 | 29°40' | 80°54' | June 26 | 0050 | 0208 | 12.7 | 0.472 |
| 22 | 29°49' | 81°09' | June 26 | 0310 | 0505 | 19.6 | 0.357 |
| 23 | 30°09' | 81°16' | June 26 | 0610 | 0730 | 13.8 | 0.145 |
| 24 | 30°19' | 81°09' | June 26 | 0853 | 1025 | 16.2 | 0.741 |
| 25 | 30°19' | 80°47' | June 26 | 1130 | 1305 | 16.0 | 0.312 |
| 26 | 30°20' | 80°24' | June 26 | 1420 | 1550 | 16.1 | 0.124 |
| 27 | 30°20' | 80°00' | June 26 | 1735 | 1925 | 18.9 | 0.212 |
| 28 | 30°24' | 79°36' | June 26 | 2140 | 2325 | 19.9 | 0.100 |
| 29 | 30°41' | 79°19' | June 27 | 0112 | 0345 | 26.8 | 0.149 |
| 30 | 30°57' | 79°21' | June 27 | 0602 | 0950 | 37.4 | 0.053 |
| 31 | 31°01' | 79°45' | June 27 | 1205 | 1419 | 22.8 | 0.088 |
| 32 | 31°00' | 80°11' | June 27 | 1535 | 1710 | 14.9 | 0.268 |
| 33 | 30°59' | 80°31' | June 27 | 1813 | 2025 | 22.8 | 0.307 |
| 34 | 31°00' | 80°58' | June 27 | 2155 | 2315 | 14.8 | 0.405 |
| 35 | 31°30' | 80°45' | July 2 | 0140 | 0350 | 21.4 | 0.701 |
| 36 | 31°39' | 80°28' | July 2 | 0454 | 0638 | 19.6 | 0.204 |
| 37 | 31°38' | 80°04' | July 2 | 0756 | 0935 | 16.3 | 0.307 |
| 38 | 31°32' | 79°39' | July 2 | 1045 | 1210 | 15.0 | 0.133 |
| 39 | 31°31' | 79°05' | July 2 | 1411 | 1655 | 28.8 | 0.035 |
| 40 | 31°36' | 78°46' | July 2 | 1850 | 2150 | 35.0 | 0.086 |
| 41 | 31°53' | 79°02' | July 3 | 0027 | 0250 | 23.6 | 0.763 |
| 42 | 32°06' | 79°21' | July 3 | 0418 | 0606 | 18.2 | 0.220 |
| 43 | 32°18' | 79°40' | July 3 | 0715 | 0830 | 13.0 | 0.538 |
| 44 | 32°31' | 79°39' | July 3 | 0950 | 1050 | 11.6 | 0.259 |

Table 9.--Plankton volumes (Gulf IA High-speed sampler), cont'd

| Tow No. | Position of ship at center of tow: | | (1954) Date | Time (EST) | | Vol. water | Vol. per |
|------------|---------------------------------------|----------|----------------|------------|------|-------------------------------|------------------------------------|
| | N. Lat. | W. Long. | | Start | End | strained (m ³) | m ³ strained (ml) |
| 45 | 32°47' | 79°24' | July 3 | 1205 | 1335 | 15.3 | 0.523 |
| 46 | 32°48' | 79°08' | July 3 | 1440 | 1620 | 16.8 | 0.178 |
| 47 | 32°33' | 78°52' | July 3 | 1728 | 1917 | 18.1 | 0.221 |
| 48 | 32°18' | 78°35' | July 3 | 2112 | 2255 | 21.7 | 0.092 |
| 49 | 32°03' | 78°18' | July 4 | 0049 | 0240 | 20.0 | 0.150 |
| 50 | 32°07' | 77°46' | July 4 | 0430 | 0735 | 31.0 | 0.064 |
| 51 | 32°26' | 77°39' | July 4 | 0910 | 1047 | 15.5 | 0.064 |
| 52 | 32°39' | 77°55' | July 4 | 1237 | 1405 | 16.2 | 0.864 |
| 53 | 32°55' | 78°11' | July 4 | 1550 | 1735 | 18.8 | 0.213 |
| 54 | 33°10' | 78°28' | July 4 | 1850 | 2027 | 18.5 | 0.162 |
| 55 | 33°25' | 78°46' | July 4 | 2135 | 2325 | 17.5 | 0.514 |
| 56 | 33°32' | 78°40' | July 5 | 0028 | 0230 | 20.8 | 0.481 |
| 57 | 33°35' | 78°10' | July 5 | 0340 | 0555 | 22.0 | 0.591 |
| 58 | 33°30' | 77°46' | July 5 | 0705 | 0845 | 17.3 | 0.173 |
| 59 | 33°17' | 77°29' | July 5 | 0955 | 1130 | 17.1 | 0.117 |
| 60 | 33°01' | 77°10' | July 5 | 1335 | 1525 | 18.2 | 0.055 |
| 61 | 32°48' | 76°55' | July 5 | 1727 | 1940 | 21.0 | 0.190 |
| 62 | 32°57' | 76°35' | July 5 | 2148 | 2400 | 21.1 | 0.190 |
| 63 | 33°51' | 77°03' | July 7 | 1505 | 1645 | 15.5 | 0.129 |
| 64 | 34°01' | 77°19' | July 7 | 1750 | 1925 | 17.9 | 0.056 |
| 65 | 34°15' | 77°21' | July 7 | 2037 | 2215 | 16.2 | 0.247 |
| 66 | 34°25' | 76°41' | July 10 | 0647 | 0820 | 15.5 | 0.194 |
| 67 | 34°11' | 76°25' | July 10 | 0945 | 1125 | 16.6 | 0.181 |
| 68 | 33°58' | 76°05' | July 10 | 1310 | 1515 | 20.6 | 0.146 |
| 69 | 34°02' | 75°41' | July 10 | 1717 | 2030 | 36.0 | 0.111 |
| 70 | 34°21' | 75°26' | July 11 | 0045 | 0155 | 13.0 | 0.154 |
| 71 | 34°35' | 75°12' | July 11 | 0503 | 0830 | 34.7 | 0.029 |
| 72 | 34°46' | 74°53' | July 11 | 1140 | 1330 | 16.4 | 0.061 |
| 74 | 35°03' | 75°31' | July 11 | 1845 | 2040 | 20.2 | 0.346 |
| 75 | 34°54' | 75°58' | July 11 | 2145 | 2350 | 22.1 | 0.090 |

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net)

| Station Number | Reg. 1 | Reg. 2 | Reg. 3 | Reg. 4 | Reg. 5 | Reg. 6 | Reg. 7 | Reg. 8 |
|-------------------|--------|--------|---------|--------|--------|--------|--------|--------|
| Protozoa | 344.4 | 197.4 | 240.8 | 251.7 | 322.6 | 209.0 | 417.0 | 375.4 |
| Coelenterata | 9.2 | 9.2 | 1.0 | 42.2 | 35.3 | 8.1 | 7.4 | 3.6 |
| Chaetognatha | 6.6 | 47.9 | 43.4 | 89.5 | 43.0 | 13.0 | 7.9 | 9.5 |
| Misc. Worms | 4.1 | 2.4 | 2.6 | 2.1 | 5.8 | 3.2 | 1.6 | 2.4 |
| Copepoda | 110.6 | 212.8 | 61.6 | 567.6 | 416.3 | 163.6 | 134.2 | 127.7 |
| Ostracoda | 4.8 | 2.6 | - | 3.3 | 1.3 | 2.4 | 4.7 | 1.8 |
| Mysidacea | - | 0.3 | 0.2 | - | - | - | 0.1 | 0.3 |
| Amphipoda | 1.2 | 2.8 | 0.2 | 13.1 | 5.8 | 2.3 | 0.9 | 0.6 |
| Isopoda | 0.1 | 0.1 | 0.2 | - | 0.1 | - | - | <0.1 |
| Stomatopoda | 0.3 | 0.1 | 0.7 | 7.3 | 0.9 | - | 0.1 | - |
| Euphausiacea | 6.7 | 4.4 | - | 0.8 | 2.6 | 5.4 | 7.2 | 4.2 |
| Shrimp | 1.5 | 1.8 | 47.1 | 228.0 | 58.4 | 2.3 | 1.5 | 0.4 |
| Crabs | 0.9 | 0.8 | 16.0 | 38.8 | 11.6 | 0.5 | 1.2 | 1.0 |
| Misc. Crustaceans | 0.7 | 0.6 | 7.8 | 28.7 | 2.0 | 1.8 | 0.2 | 0.8 |
| Pteropoda | 0.6 | 1.2 | - | 2.7 | 3.0 | 2.4 | 0.9 | 1.3 |
| Misc. Mollusca | 3.7 | 2.7 | 0.3 | 4.5 | 7.1 | 5.6 | 2.5 | 2.7 |
| Larvacea | 72.1 | 60.9 | 372.9 | 138.5 | 187.4 | 49.7 | 100.5 | 135.3 |
| Misc. Tunicata | 2.4 | 2.4 | - | 1.4 | 3.2 | 2.9 | 1.6 | 1.6 |
| Leptocardia | 0.03 | < 0.01 | 155.76 | 0.51 | 0.06 | < 0.01 | 0.04 | 0.01 |
| Misc. Organisms | 2.4 | 6.8 | 1571.4* | 116.6 | 43.0 | 19.7 | 17.2 | 6.2 |
| Subtotal | 572.3 | 557.2 | 2522.0 | 1537.3 | 1149.5 | 491.9 | 706.7 | 674.9 |
| Fish Eggs | 0.07 | 0.02 | 6.02 | 8.45 | 2.80 | 0.02 | 0.02 | 0.02 |
| Fish Larvae | 1.02 | 1.09 | 4.07 | 5.23 | 4.56 | 0.87 | 1.60 | 1.16 |
| Total | 573.4 | 558.3 | 2532.0 | 1551.0 | 1156.8 | 492.8 | 708.4 | 676.1 |

* Mostly echinoderms

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 9 | Reg. 10 | Reg. 11 | Reg. 12 | Reg. 13 | Reg. 14 | Reg. 15 | Reg. 16 |
|-------------------|--------|---------|---------|----------|---------|---------|---------|---------|
| Protozoa | 385.6 | 568.2 | 70.9 | 166.6 | 142.6 | 242.4 | 251.1 | 310.8 |
| Coelenterata | 9.6 | 12.0 | 3.6 | 3.6 | 8.0 | 10.6 | 3.8 | 4.4 |
| Chaetognatha | 18.6 | 11.8 | 141.8 | 103.1 | 28.7 | 15.1 | 8.1 | 2.9 |
| Misc. Worms | 2.7 | 2.2 | 1.3 | 12.3 | 0.9 | 0.6 | 1.0 | 1.6 |
| Copepoda | 165.4 | 314.2 | 214.4 | 234.0 | 425.4 | 242.4 | 91.8 | 143.2 |
| Ostracoda | 1.7 | 0.2 | 4.1 | 0.9 | 45.9 | 0.3 | 1.1 | 2.7 |
| Mysidacea | - | - | - | 9.7 | 3.9 | 1.6 | - | - |
| Amphipoda | 2.5 | 3.4 | 2.3 | 2.4 | 14.4 | 4.5 | 0.7 | 1.2 |
| Isopoda | - | - | - | 0.2 | 0.2 | - | 0.2 | - |
| Stomatopoda | - | 0.6 | 4.1 | 1.1 | 3.6 | 2.6 | 0.1 | - |
| Euphausiacea | 4.8 | 2.2 | - | - | - | 0.3 | 2.6 | 4.5 |
| Shrimp | 1.0 | 4.7 | 72.6 | 241.9 | 212.7 | 30.6 | 2.9 | 1.5 |
| Crabs | 0.2 | 9.7 | 133.1 | 44.3 | 30.3 | 13.5 | 1.0 | 0.4 |
| Misc. Crustaceans | 0.6 | 5.7 | 368.3 | 325.2 | 120.9 | 1.9 | 0.8 | 0.3 |
| Pteropoda | 0.9 | 8.9 | 2.8 | - | 22.1 | 2.6 | 0.8 | 0.7 |
| Misc. Mollusca | 3.5 | 3.4 | 69.2 | 7.5 | 5.9 | 5.8 | 1.7 | 1.5 |
| Larvacea | 67.2 | 206.6 | 55.3 | 325.2 | 386.8 | 170.7 | 86.7 | 69.4 |
| Misc. Tunicata | 2.3 | 2.2 | - | - | 4.8 | 35.7 | 1.0 | 1.7 |
| Leptocardia | - | - | 1.75 | 6.48 | 0.28 | 0.02 | <0.01 | - |
| Misc. Organisms | 5.9 | 64.6 | 664.0* | 3.0** | 768.7* | 327.7* | 49.6 | 2.7 |
| Subtotal | 672.5 | 1220.6 | 1809.6 | 1487.5** | 2226.1 | 1108.9 | 505.0 | 549.5 |
| Fish Eggs | <0.01 | 1.04 | 0.85 | 2.80 | 19.98 | 2.96 | 0.14 | 0.01 |
| Fish Larvae | 0.88 | 5.70 | 4.54 | 1.06 | 12.29 | 4.17 | 1.13 | 0.83 |
| Total | 673.4 | 1227.3 | 1815.0 | 1491.4** | 2258.4 | 1116.0 | 506.3 | 550.3 |

* Mostly echinoderms

** Numerous echinoderms, numbers not determined

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 17 | Reg. 18 | Reg. 19 | Reg. 20 | Reg. 21 | Reg. 22 | Reg. 23 | Reg. 24 |
|-------------------|---------|---------|---------|---------|----------|----------|---------|---------|
| Protozoa | 408.4 | 397.2 | 113.2 | 344.6 | 253.0 | 94.5 | 312.0 | 338.7 |
| Coelenterata | 6.7 | 8.5 | 2.9 | 3.1 | 20.7 | 28.8 | 1.6 | 2.6 |
| Chaetognatha | 7.4 | 8.6 | 3.6 | 183.8 | 104.0 | 149.1 | 59.6 | 48.6 |
| Misc. Worms | 2.6 | 3.2 | 0.4 | 0.3 | 1.1 | 3.4 | 3.5 | 0.4 |
| Copepoda | 173.4 | 187.4 | 140.9 | 669.5 | 548.3 | 920.0 | 325.8 | 82.3 |
| Ostracoda | 4.3 | 1.0 | 0.3 | 32.2 | 1.6 | 1.7 | 0.4 | - |
| Mysidacea | - | - | 2.3 | 1.2 | 10.3 | - | - | - |
| Amphipoda | 1.2 | 2.0 | 1.9 | 40.9 | 40.0 | 0.3 | - | 4.2 |
| Isopoda | - | 0.2 | 0.1 | - | - | - | - | - |
| Stomatopoda | 0.1 | 0.1 | 1.6 | 4.0 | 3.2 | 11.7 | 2.2 | 43.0 |
| Euphausiacea | 5.0 | 5.7 | 0.6 | - | - | - | 0.1 | - |
| Shrimp | 0.6 | 0.7 | 7.1 | 308.5 | 163.1 | 40.8 | 69.3 | 35.6 |
| Crabs | 0.5 | 0.6 | 3.9 | 33.4 | 81.5 | 240.0 | 55.5 | 80.4 |
| Misc. Crustaceans | 1.1 | 0.7 | 0.3 | 390.5 | 269.9 | 232.7 | 3.0 | 0.5 |
| Pteropoda | 0.8 | 2.0 | 0.3 | 128.0 | 20.7 | 0.3 | - | 0.7 |
| Misc. Mollusca | 2.6 | 3.0 | 1.0 | 10.5 | 11.1 | 44.9 | 2.1 | 6.4 |
| Larvacea | 87.1 | 61.3 | 83.2 | 554.6 | 337.4 | 352.7 | 80.4 | 50.5 |
| Misc. Tunicata | 1.7 | 1.0 | 2.8 | 82.0 | 6.6 | 0.3 | - | 0.9 |
| Leptocardia | <0.01 | <0.01 | - | 1.52 | 5.48 | 15.33 | 0.03 | - |
| Misc. Organisms | 20.5 | 5.8 | 4.3 | 164.1 | 64.7** | 3.1** | 583.7* | 101.0 |
| Subtotal | 724.0 | 689.0 | 370.7 | 2952.7 | 1942.7** | 2139.6** | 1499.2 | 795.8 |
| Fish Eggs | 0.07 | 0.02 | 2.00 | 22.37 | 27.45 | 22.78 | 3.23 | 11.76 |
| Fish Larvae | 1.07 | 1.01 | 1.38 | 17.41 | 7.66 | 4.60 | 0.58 | 3.20 |
| Total | 725.1 | 690.0 | 374.1 | 2992.5 | 1977.8** | 2167.0** | 1503.0 | 810.8 |

* Mostly echinoderms

** Numerous echinoderms, numbers not determined

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 25 | Reg. 26 | Reg. 27 | Reg. 28 | Reg. 29 | Reg. 30 | Reg. 31 | Reg. 32 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Protozoa | 122.1 | 229.3 | 244.8 | 361.4 | 325.6 | 162.4 | 133.7 | 330.3 |
| Coelenterata | 3.6 | 8.7 | 3.8 | 9.7 | 4.5 | 3.3 | 9.7 | 5.1 |
| Chaetognatha | 15.4 | 10.1 | 4.0 | 7.5 | 7.9 | 9.4 | 13.2 | 53.1 |
| Misc. Worms | 0.1 | 1.8 | 1.9 | 2.2 | 1.4 | 0.6 | 0.7 | - |
| Copepoda | 177.7 | 244.2 | 119.0 | 151.5 | 105.0 | 89.8 | 173.1 | 319.5 |
| Ostracoda | 0.1 | 3.2 | 6.3 | 7.9 | 1.0 | 2.0 | - | 0.5 |
| Mysidacea | - | - | - | - | - | - | - | - |
| Amphipoda | 2.5 | 4.2 | 0.7 | 1.2 | 0.9 | 1.7 | 2.8 | 7.2 |
| Isopoda | 0.1 | 0.3 | 0.1 | - | 0.2 | - | 0.2 | - |
| Stomatopoda | 6.6 | 1.0 | 0.1 | - | - | 0.1 | 2.5 | 3.8 |
| Euphausiacea | - | 2.8 | 4.8 | 6.4 | 4.3 | 3.3 | 3.7 | - |
| Shrimp | 1.2 | 3.4 | 1.9 | 0.9 | 0.9 | 0.6 | 1.5 | 7.7 |
| Crabs | 7.7 | 3.8 | 0.4 | 0.4 | 1.1 | 0.1 | 9.3 | 9.2 |
| Misc. Crustaceans | 0.1 | 1.5 | 0.8 | 0.8 | 0.8 | 1.0 | 0.4 | 0.2 |
| Pteropoda | 0.3 | 2.1 | 1.6 | 1.4 | 0.4 | 1.0 | 0.4 | 6.4 |
| Misc. Mollusca | 1.9 | 2.4 | 1.9 | 4.3 | 2.6 | 1.8 | 2.0 | 1.3 |
| Larvacea | 86.5 | 137.0 | 56.2 | 71.8 | 87.7 | 13.2 | 182.9 | 165.2 |
| Misc. Tunicata | 134.4 | 5.6 | 0.9 | 2.6 | 0.6 | 1.5 | 9.8 | 7.9 |
| Leptocardia | - | 0.02 | 0.02 | 0.02 | 0.01 | < 0.01 | - | - |
| Misc. Organisms | 6.4 | 12.6 | 4.4 | 2.0 | 2.6 | 5.2 | 5.8 | 8.4 |
| Subtotal | 566.7 | 674.0 | 453.6 | 632.0 | 547.5 | 297.0 | 551.4 | 925.8 |
| Fish Eggs | 5.48 | 0.23 | 0.02 | 0.01 | 0.04 | < 0.01 | 1.35 | 3.87 |
| Fish Larvae | 0.86 | 2.23 | 1.27 | 1.03 | 0.98 | 0.46 | 2.36 | 5.17 |
| Total | 573.0 | 676.5 | 454.9 | 633.0 | 548.5 | 297.5 | 555.1 | 934.8 |

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 33 | Reg. 34 | Reg. 35 | Reg. 36 | Reg. 37 | Reg. 38 | Reg. 39 | Reg. 40 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Protozoa | 73.7 | * | * | 320.0 | 133.0 | 225.5 | 241.3 | 228.5 |
| Coelenterata | 1.7 | 5.6 | 2.4 | 5.1 | 1.3 | 4.5 | 8.0 | 5.6 |
| Chaetognatha | 97.1 | 27.5 | 84.7 | 26.4 | 144.5 | 6.8 | 11.7 | 10.0 |
| Misc. Worms | - | 3.3 | - | 0.5 | 0.2 | 0.2 | 1.4 | 2.6 |
| Copepoda | 254.5 | 523.9 | 337.2 | 640.0 | 192.7 | 272.9 | 212.3 | 115.5 |
| Ostracoda | 62.0 | 4.2 | 8.6 | 100.0 | 200.4 | 0.4 | 3.5 | 2.8 |
| Mysidacea | 5.5 | 52.0 | 15.3 | 9.7 | 1.1 | - | - | - |
| Amphipoda | 72.0 | 12.8 | 62.0 | 30.7 | 4.7 | 1.5 | 2.4 | 1.8 |
| Isopoda | 0.5 | 0.6 | 1.0 | 0.3 | - | - | - | 0.1 |
| Stomatopoda | 7.9 | 3.6 | 9.0 | 5.4 | 4.0 | 3.0 | 1.5 | - |
| Euphausiacea | - | - | - | - | - | - | 2.3 | 5.0 |
| Shrimp | 140.7 | 104.1 | 257.1 | 317.1 | 17.6 | 2.3 | 2.7 | 0.7 |
| Crabs | 19.3 | 79.8 | 49.9 | 94.3 | 26.4 | 21.3 | 3.6 | 0.4 |
| Misc. Crustaceans | 2.5 | 93.7 | 3.0 | 0.3 | 0.2 | 0.4 | 1.2 | 0.5 |
| Pteropoda | 7.6 | 1.0 | - | 0.8 | 2.4 | 0.2 | 3.2 | 1.4 |
| Misc. Mollusca | 19.6 | 8.5 | 11.0 | 3.5 | 2.9 | 2.3 | 6.5 | 4.2 |
| Larvacea | 194.2 | 353.9 | 69.6 | 268.6 | 339.2 | 187.2 | 144.8 | 81.1 |
| Misc. Tunicata | 3.0 | 2.3 | 48.4 | 271.4 | 34.7 | 4.7 | 2.6 | 2.1 |
| Leptocardia | 0.07 | 0.08 | 3.17 | 2.74 | 0.12 | - | 0.02 | 0.01 |
| Misc. Organisms | 95.4 | 69.4 | 54.4 | 217.1 | 133.0 | 3.4 | 5.6 | 23.8 |
| Subtotal | 1057.3 | 1346.3 | 1016.8 | 2313.9 | 1238.4 | 736.6 | 654.6 | 486.1 |
| Fish Eggs | 11.25 | 24.89 | 2.88 | 9.65 | 5.48 | 2.41 | 0.40 | 0.01 |
| Fish Larvae | 4.42 | 16.04 | 2.18 | 4.72 | 7.45 | 3.84 | 1.94 | 1.07 |
| Total | 1073.0 | 1387.2 | 1021.9 | 2328.3 | 1251.3 | 742.8 | 656.9 | 487.2 |

* Numerous radiolaria, few other protozoa, numbers not determined

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 41 | Reg. 42 | Reg. 43 | Reg. 44 | Reg. 45 | Reg. 46 | Reg. 47 | Reg. 48 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Protozoa | 176.0 | 233.8 | 205.5 | - | 2010.2 | 1.9 | 95.5 | 270.0 |
| Coelenterata | 5.2 | 2.8 | 4.6 | 0.5 | 1.8 | 10.4 | 2.6 | 1.9 |
| Chaetognatha | 5.6 | 15.8 | 27.6 | 86.9 | 174.1 | 89.9 | 29.3 | 18.5 |
| Misc. Worms | 1.5 | 1.3 | 0.4 | 0.1 | 1.1 | 7.7 | 0.4 | 0.9 |
| Copepoda | 179.1 | 270.4 | 465.9 | 233.8 | 1060.0 | 1441.9 | 209.5 | 290.1 |
| Ostracoda | 6.6 | 10.0 | 1.0 | 1.8 | 159.0 | 1.9 | - | 117.3 |
| Mysidacea | - | - | - | - | - | 6.2 | - | - |
| Amphipoda | 1.7 | 4.1 | 2.7 | 1.6 | 42.8 | 1.9 | 3.0 | 2.5 |
| Isopoda | - | 0.2 | - | 0.2 | 0.7 | 0.4 | - | - |
| Stomatopoda | 0.1 | 1.2 | 4.0 | 8.6 | 1.8 | 1.5 | 4.1 | 1.0 |
| Euphausiacea | 2.4 | 4.6 | 0.2 | - | - | - | - | 1.6 |
| Shrimp | 1.1 | 17.8 | 4.8 | 21.9 | 33.9 | 74.4 | 2.2 | 17.8 |
| Crabs | 0.4 | 9.7 | 23.2 | 12.9 | 193.1 | 494.2 | 18.5 | 14.0 |
| Misc. Crustaceans | 1.4 | 1.5 | 0.6 | 0.1 | 2.5 | 445.2 | 0.2 | - |
| Pteropoda | 1.4 | 2.0 | 0.8 | 1.4 | 0.7 | - | 1.3 | 1.4 |
| Misc. Mollusca | 2.9 | 1.5 | 5.6 | 3.5 | 11.4 | 17.3 | 2.2 | 8.6 |
| Larvacea | 49.8 | 207.6 | 252.3 | 1.8 | 556.5 | 563.7 | 85.8 | 206.8 |
| Misc. Tunicata | 1.6 | 3.3 | 3.1 | 0.9 | 3.9 | 16.2 | - | 2.3 |
| Leptocardia | - | - | - | 0.01 | 0.55 | 0.10 | - | - |
| Misc. Organisms | 8.5 | 50.6 | 48.8 | 2.8 | 42.5 | 302.3 | 63.0 | 117.3 |
| Subtotal | 445.3 | 838.2 | 1051.1 | 378.9 | 4296.6 | 3477.1 | 517.6 | 1072.0 |
| Fish Eggs | 0.06 | 2.55 | 3.61 | 1.98 | 29.20 | 18.92 | 2.11 | 1.19 |
| Fish Larvae | 0.36 | 45.04 | 4.67 | 2.10 | 7.52 | 5.09 | 1.63 | 2.60 |
| Total | 445.7 | 885.8 | 1059.4 | 383.0 | 4333.3 | 3501.1 | 521.3 | 1075.8 |

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 49 | Reg. 51 | Reg. 52 | Reg. 53 | Reg. 54 | Reg. 55 | Reg. 56 | Reg. 57 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Protozoa | 349.8 | 257.1 | 204.5 | 282.8 | 107.3 | 19.3 | 11.5 | 3.6 |
| Coelenterata | 3.3 | 2.7 | 1.4 | 5.0 | 3.2 | 6.8 | 5.7 | 23.6 |
| Chaetognatha | 31.3 | 44.8 | 42.3 | 21.8 | 19.3 | 60.9 | 105.4 | 60.2 |
| Misc. Worms | 1.8 | 1.1 | 1.9 | 2.1 | 0.4 | 6.8 | 20.2 | 12.5 |
| Copepoda | 399.4 | 210.7 | 188.5 | 310.6 | 301.7 | 465.0 | 498.6 | 822.8 |
| Ostracoda | 114.9 | 6.6 | 5.5 | 12.0 | 1.0 | 72.0 | 1.6 | 0.8 |
| Mysidacea | 0.2 | - | - | - | - | 6.5 | 6.3 | 5.4 |
| Amphipoda | 3.2 | 2.5 | 3.4 | 4.6 | 3.4 | 18.8 | 2.0 | 6.3 |
| Isopoda | - | 0.3 | 0.1 | 0.1 | 0.2 | 1.3 | - | 0.3 |
| Stomatopoda | 1.1 | 0.2 | 0.2 | 0.3 | 11.6 | 1.6 | 1.7 | 4.1 |
| Euphausiacea | 3.4 | 2.7 | 1.9 | 2.1 | 0.2 | - | - | 0.3 |
| Shrimp | 8.4 | 5.0 | 4.4 | 6.1 | 7.4 | 52.6 | 85.3 | 40.2 |
| Crabs | 2.3 | 1.9 | 0.9 | 0.8 | 31.7 | 10.2 | 83.7 | 36.9 |
| Misc. Crustaceans | 0.5 | 1.9 | 2.0 | 1.8 | - | 0.8 | 42.0 | 2.4 |
| Pteropoda | 3.2 | 1.6 | 1.5 | 3.3 | 0.6 | - | 0.2 | 0.7 |
| Misc. Mollusca | 1.4 | 1.7 | 1.3 | 4.3 | 2.1 | 0.8 | 48.5 | 2.2 |
| Larvacea | 198.4 | 141.0 | 72.0 | 205.2 | 135.7 | 276.8 | 80.3 | 116.8 |
| Misc. Tunicata | 3.1 | 4.7 | 3.2 | 5.1 | 1.7 | 3.9 | 2.0 | 5.1 |
| Leptocardia | - | - | - | - | - | 27.09 | 25.97 | 0.84 |
| Misc. Organisms | 78.3 | 8.9 | 8.7 | 20.3 | 8.8 | 30.0 | 189.1 | 46.7 |
| Subtotal | 1204.0 | 695.4 | 543.7 | 888.3 | 636.3 | 1061.2 | 1210.1 | 1191.7 |
| Fish Eggs | 0.04 | 1.02 | 0.73 | 0.37 | 16.94 | 19.99 | 4.54 | 4.84 |
| Fish Larvae | 1.50 | 0.84 | 0.34 | 0.52 | 7.18 | 13.68 | 12.63 | 10.09 |
| Total | 1205.5 | 697.3 | 544.8 | 889.2 | 660.4 | 1094.9 | 1227.3 | 1206.6 |

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 58 | Reg. 59 | Reg. 60 | Reg. 61 | Reg. 62 | Reg. 63 | Reg. 64* | Reg. 65 |
|-------------------|---------|---------|---------|---------|---------|---------|----------|---------|
| Protozoa | 2.0 | 94.8 | 141.5 | 110.8 | 112.2 | 102.1 | 65720 | 137.6 |
| Coelenterata | 2.9 | 4.4 | 6.3 | 3.6 | 7.4 | 4.2 | 1980 | 3.0 |
| Chaetognatha | 56.1 | 53.3 | 29.3 | 15.0 | 41.2 | 7.3 | 4420 | 16.2 |
| Misc. Worms | 2.2 | 0.1 | 1.1 | 0.3 | 1.6 | 0.7 | 400 | 0.4 |
| Copepoda | 249.7 | 134.4 | 241.5 | 60.1 | 249.8 | 71.0 | 31800 | 221.0 |
| Ostracoda | 1.6 | 31.1 | 26.6 | 7.5 | 38.6 | 7.3 | 900 | 0.2 |
| Mysidacea | 0.7 | - | - | - | - | - | - | 0.1 |
| Amphipoda | 4.5 | 0.7 | 1.8 | 1.1 | 3.4 | 0.3 | 460 | 1.4 |
| Isopoda | - | - | - | 0.1 | - | - | - | 0.5 |
| Stomatopoda | 1.3 | 6.1 | 0.8 | 0.1 | 1.5 | 0.1 | 40 | 3.0 |
| Euphausiacea | - | 0.1 | 2.8 | 1.3 | 4.1 | 3.0 | 660 | 0.4 |
| Shrimp | 25.9 | 3.3 | 3.8 | 0.6 | 4.5 | 0.3 | 260 | 0.4 |
| Crabs | 91.2 | 13.2 | 2.3 | 1.1 | 7.5 | 0.3 | 280 | 2.1 |
| Misc. Crustaceans | 189.4 | 3.5 | 0.3 | 0.1 | 0.4 | 0.1 | 160 | 0.5 |
| Pteropoda | 1.0 | - | 1.4 | 0.7 | 2.1 | 1.5 | 480 | 0.7 |
| Misc. Mollusca | 7.0 | 0.7 | 0.5 | 0.7 | 2.9 | 3.4 | 400 | 0.4 |
| Larvacea | 44.9 | 42.4 | 56.6 | 8.2 | 36.8 | 23.3 | 8480 | 41.0 |
| Misc. Tunicata | 50.5 | 0.9 | 1.9 | 1.0 | 7.6 | 1.5 | 160 | 1.0 |
| Leptocardia | 0.12 | - | <0.01 | - | - | <0.01 | 2 | - |
| Misc. Organisms | 133.3 | 27.0 | 30.3 | 12.1 | 50.0 | 4.9 | 3604 | 41.0 |
| Subtotal | 864.3 | 416.0 | 548.8 | 224.4 | 571.6 | 231.3 | 120206 | 470.9 |
| Fish Eggs | 7.97 | 3.81 | 1.03 | 0.02 | 0.01 | 0.04 | 11 | 4.64 |
| Fish Larvae | 5.60 | 5.38 | 0.84 | 0.52 | 3.44 | 1.55 | 155 | 3.90 |
| Total | 877.9 | 425.2 | 550.7 | 224.9 | 575.0 | 232.9 | 120372 | 479.4 |

* Total number of organisms in sample, water volume not determined

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 66 | Reg. 67 | Reg. 68 | Reg. 69 | Reg. 70 | Reg. 71 | Reg. 72 | Reg. 73 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Protozoa | 36.7 | 3.5 | 8.9 | 5.6 | 3.6 | 271.8 | 298.9 | 205.6 |
| Coelenterata | 5.7 | 8.7 | 6.8 | 7.8 | 3.2 | 3.3 | 4.8 | 5.1 |
| Chaetognatha | 31.4 | 47.5 | 71.2 | 63.2 | 22.0 | 12.8 | 21.6 | 13.4 |
| Misc. Worms | 0.1 | 1.4 | 1.3 | 0.3 | 0.2 | 1.0 | 0.7 | 0.9 |
| Copepoda | 97.5 | 238.8 | 263.5 | 206.7 | 152.9 | 158.0 | 190.1 | 86.1 |
| Ostracoda | 2.1 | 34.5 | 1.3 | 49.6 | 2.1 | 3.4 | 1.5 | 6.3 |
| Mysidacea | - | 1.5 | 1.6 | - | - | - | - | 0.1 |
| Amphipoda | 0.2 | 6.8 | 2.8 | 6.7 | 0.2 | 3.1 | 4.0 | 0.8 |
| Isopoda | - | 0.1 | 0.2 | - | - | - | - | - |
| Stomatopoda | 2.1 | 0.3 | 0.8 | 7.2 | 1.7 | - | 0.2 | 0.6 |
| Euphausiacea | - | - | - | - | - | 3.7 | 4.6 | 2.5 |
| Shrimp | 5.8 | 43.1 | 9.1 | 35.6 | 12.5 | 1.0 | 0.7 | 1.4 |
| Crabs | 4.0 | 7.6 | 8.8 | 20.9 | 10.8 | 0.1 | 0.4 | 0.5 |
| Misc. Crustaceans | - | 74.8 | 105.0 | 0.8 | 0.8 | 0.2 | 0.4 | 0.3 |
| Pteropoda | 0.5 | 2.7 | - | 9.0 | 0.8 | 1.1 | 1.6 | 0.6 |
| Misc. Mollusca | 0.5 | 5.6 | 1.9 | 2.6 | 6.1 | 2.0 | 1.7 | 2.3 |
| Larvacea | 5.5 | 120.8 | 89.6 | 34.7 | 46.3 | 91.0 | 41.6 | 36.8 |
| Misc. Tunicata | - | 10.3 | 2.1 | 60.8 | 60.2 | 2.0 | 0.7 | 0.6 |
| Leptocardia | - | 8.99 | 0.28 | 0.05 | - | - | - | 0.07 |
| Misc. Organisms | 13.2 | 30.2 | 101.6 | 86.0 | 13.8 | 13.1 | 13.2 | 4.5 |
| Subtotal | 205.3 | 647.2 | 676.8 | 597.6 | 337.2 | 567.6 | 586.7 | 368.5 |
| Fish Eggs | 2.87 | 5.89 | 2.51 | 11.44 | 5.01 | 0.50 | 0.09 | 0.08 |
| Fish Larvae | 8.80 | 9.63 | 2.92 | 6.44 | 4.38 | 0.75 | 0.77 | 2.38 |
| Total | 217.0 | 662.7 | 682.2 | 615.5 | 346.6 | 568.8 | 587.6 | 371.0 |

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Reg. 74 | Reg. 76 | Reg. 77 | Reg. 78 | Reg. 79 | Reg. 80* | Sp. 5 | Sp. 6 |
|-------------------|---------|---------|---------|---------|---------|----------|-------|-------|
| Protozoa | 238.2 | 122.2 | 94.9 | 23.6 | 189.1 | 25016 | 44.3 | 55.6 |
| Coelenterata | 6.3 | 4.6 | 11.7 | 0.8 | 4.7 | 860 | 4.6 | 2.7 |
| Chaetognatha | 11.0 | 46.5 | 99.2 | 29.3 | 7.5 | 820 | 8.9 | 2.4 |
| Misc. Worms | 1.6 | 2.5 | 1.4 | - | 0.7 | 60 | 1.1 | 0.9 |
| Copepoda | 83.9 | 655.6 | 361.6 | 139.7 | 54.0 | 6148 | 86.6 | 44.3 |
| Ostracoda | 3.0 | 3.1 | 14.8 | 414.1 | 1.9 | 500 | 7.4 | 1.3 |
| Mysidacea | - | 9.6 | 9.4 | - | - | - | - | - |
| Amphipoda | 1.0 | 11.9 | 18.9 | 2.5 | 0.5 | 120 | 0.5 | 0.6 |
| Isopoda | 0.1 | 0.4 | - | - | - | - | - | - |
| Stomatopoda | - | 0.6 | 3.7 | 9.0 | - | - | - | - |
| Euphausiacea | 4.7 | - | - | 0.2 | 2.1 | 360 | 3.8 | 1.6 |
| Shrimp | 0.7 | 162.2 | 103.3 | 5.6 | 0.6 | 40 | 1.7 | 0.9 |
| Crabs | 0.7 | 29.6 | 82.6 | 4.2 | 0.4 | 20 | 0.3 | - |
| Misc. Crustaceans | 0.4 | 6.1 | 0.4 | - | 0.4 | 40 | 0.8 | 0.5 |
| Pteropoda | 0.8 | 1.0 | 8.2 | 3.2 | 1.0 | 40 | 2.0 | 1.6 |
| Misc. Mollusca | 1.4 | 25.2 | 7.8 | - | 1.4 | 160 | 4.2 | 1.4 |
| Larvacea | 47.8 | 75.6 | 167.4 | 126.5 | 17.6 | 1380 | 23.6 | 8.3 |
| Misc. Tunicata | 0.5 | 1.0 | 5.3 | 1.4 | 0.6 | 80 | 0.6 | 0.3 |
| Leptocardia | < 0.01 | - | 0.01 | - | 0.02 | - | 0.05 | - |
| Misc. Organisms | 3.6 | 131.1 | 72.3 | 415.8 | 3.1 | 560 | 25.1 | 6.2 |
| Subtotal | 405.7 | 1288.8 | 1062.9 | 1175.9 | 285.6 | 36204 | 215.6 | 128.6 |
| Fish Eggs | 0.16 | 31.95 | 8.78 | 13.59 | 0.05 | 8 | 0.02 | 0.38 |
| Fish Larvae | 1.02 | 1.38 | 1.78 | 0.43 | 0.34 | 83 | 1.45 | 0.50 |
| Total | 406.9 | 1322.1 | 1073.5 | 1189.9 | 286.0 | 36295 | 217.1 | 129.5 |

* Total number of organisms in sample, water volume not determined

Table 10.--Numbers of plankton organisms per cubic meter of water (half-meter net), cont'd

| Station Number | Sp. 7 | Sp. 8 | Sp. 9 |
|-------------------|-------|-------|-------|
| Protozoa | 15.5 | 73.1 | 167.0 |
| Coelenterata | 2.8 | 9.1 | 3.0 |
| Chaetognatha | 2.2 | 11.7 | 15.6 |
| Misc. Worms | 0.6 | 2.0 | 0.6 |
| Copepoda | 26.4 | 122.9 | 138.0 |
| Ostracoda | 3.0 | 7.4 | 6.5 |
| Mysidacea | - | 0.1 | - |
| Amphipoda | 0.2 | 0.9 | 0.7 |
| Isopoda | - | - | 0.1 |
| Stomatopoda | - | 0.2 | - |
| Euphausiacea | 1.4 | 7.2 | 4.6 |
| Shrimp | 0.5 | 1.5 | 1.5 |
| Crabs | - | - | 0.4 |
| Misc. Crustaceans | 1.2 | 0.5 | 0.5 |
| Pteropoda | 0.2 | 0.5 | 0.9 |
| Misc. Mollusca | 0.7 | 3.7 | 5.2 |
| Larvacea | 2.4 | 58.1 | 39.6 |
| Misc. Tunicata | 0.4 | 0.4 | 0.3 |
| Leptocardia | - | 0.14 | 0.05 |
| Misc. Organisms | 22.1 | 53.1 | 10.5 |
| Subtotal | 79.6 | 352.5 | 395.0 |
| Fish Eggs | 0.09 | 0.38 | - |
| Fish Larvae | 0.71 | 1.61 | 2.20 |
| Total | 80.4 | 354.5 | 397.2 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler)

| Tow Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------|--------|-------|-------|-------|-------|-------|-------|
| Protozoa | 248.0 | 390.5 | 120.8 | 221.6 | 412.8 | 497.9 | 453.5 | 467.6 |
| Coelenterata | 5.4 | 10.5 | 3.2 | 5.1 | 4.8 | 6.7 | 2.4 | 1.5 |
| Chaetognatha | 8.2 | 41.7 | 15.8 | 24.8 | 12.2 | 5.6 | 5.3 | 6.4 |
| Misc. Worms | 1.0 | 1.9 | 0.3 | 1.1 | 0.2 | 0.6 | 1.1 | 0.7 |
| Copepoda | 116.6 | 1123.8 | 218.0 | 266.5 | 322.4 | 88.3 | 42.5 | 103.3 |
| Ostracoda | - | 3.4 | 0.3 | 2.2 | 0.2 | 1.1 | 1.1 | 0.4 |
| Mysidacea | - | - | - | - | - | - | - | - |
| Amphipoda | 3.0 | 23.7 | 2.8 | 6.5 | 4.6 | 1.9 | - | 0.2 |
| Isopoda | 0.2 | - | - | - | - | - | - | - |
| Stomatopoda | 0.6 | 16.5 | 1.3 | 5.1 | 3.4 | 0.4 | - | - |
| Euphausiacea | 1.0 | 1.1 | 0.3 | 1.1 | 1.4 | 3.9 | 2.1 | 1.3 |
| Shrimp | 0.6 | 454.3 | 67.1 | 26.3 | 15.4 | 3.9 | 2.4 | 1.5 |
| Crabs | 0.8 | 60.9 | 31.3 | 21.8 | 9.0 | 3.2 | 2.9 | 0.9 |
| Misc. Crustaceans | - | 1.1 | 11.4 | 1.7 | 2.1 | 1.1 | - | 0.6 |
| Pteropoda | 1.0 | 3.0 | 1.6 | 3.4 | 0.7 | 0.4 | 1.1 | 2.6 |
| Misc. Mollusca | 3.8 | 8.6 | 1.3 | 3.1 | 3.4 | 3.9 | 4.0 | 4.2 |
| Larvacea | 20.0 | 45.1 | 12.6 | 37.8 | 14.3 | 10.4 | 14.7 | 5.3 |
| Misc. Tunicata | 0.6 | 4.5 | - | 2.5 | 1.2 | 0.6 | - | 0.2 |
| Leptocardia | - | - | - | - | - | 0.09 | - | - |
| Misc. Organisms | 7.8 | 15.4 | 144.2 | 62.9 | 31.8 | 2.8 | 1.9 | 4.0 |
| Subtotal | 418.6 | 2206.0 | 632.3 | 693.5 | 839.9 | 632.8 | 535.0 | 600.7 |
| Fish Eggs | 0.12 | 5.64 | 13.35 | 1.47 | 2.81 | - | 0.27 | 0.26 |
| Fish Larvae | 0.24 | 22.03 | 0.70 | 5.48 | 1.47 | 0.39 | 0.27 | 0.55 |
| Total | 419.0 | 2233.7 | 646.4 | 700.4 | 844.2 | 633.2 | 535.5 | 601.5 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------|-------|-------|-------|-------|--------|-------|--------|-------|
| Protozoa | 573.1 | 833.9 | 130.6 | 40.9 | 67.1 | 89.9 | 715.5 | 526.9 |
| Coelenterata | 0.3 | 0.7 | 2.9 | 1.1 | 2.7 | 3.5 | 3.0 | 1.7 |
| Chaetognatha | 5.6 | 6.3 | 15.2 | 3.4 | 6.3 | 4.7 | 3.9 | 3.2 |
| Misc. Worms | 0.3 | - | - | - | 1.3 | 0.6 | 0.2 | - |
| Copepoda | 51.9 | 37.3 | 153.6 | 50.0 | 190.8 | 254.2 | 212.0 | 92.4 |
| Ostracoda | 0.3 | - | - | - | 3.3 | 12.0 | 1.8 | 0.3 |
| Mysidacea | 0.3 | 0.7 | - | - | 1.3 | 1.5 | 0.2 | - |
| Amphipoda | 0.6 | 0.7 | - | 0.4 | 5.0 | 8.5 | 1.4 | 2.0 |
| Isopoda | - | - | - | - | - | - | - | - |
| Stomatopoda | 1.6 | - | 12.3 | 0.8 | 5.3 | 7.3 | 1.8 | - |
| Euphausiacea | 0.3 | - | - | - | - | - | 0.7 | 1.2 |
| Shrimp | 1.6 | 0.3 | 9.8 | 8.4 | 180.2 | 24.3 | 5.0 | 2.0 |
| Crabs | 2.2 | 0.7 | 153.6 | 79.6 | 27.7 | 26.9 | 3.9 | 4.1 |
| Misc. Crustaceans | - | - | 6.5 | 93.3 | 166.1 | 6.7 | 0.7 | 2.0 |
| Pteropoda | 0.6 | - | - | 0.4 | 0.7 | 5.8 | 1.4 | 0.9 |
| Misc. Mollusca | 4.1 | 0.7 | 2.5 | 1.3 | 11.0 | 2.0 | 2.0 | 1.7 |
| Larvacea | 6.9 | 20.7 | 45.6 | 6.0 | 77.7 | 38.9 | 25.2 | 14.2 |
| Misc. Tunicata | - | - | - | - | - | 6.4 | 0.4 | - |
| Leptocardia | - | - | - | - | 0.20 | - | - | - |
| Misc. Organisms | 3.8 | 2.3 | 5.1 | 687.0 | 314.5 | 111.6 | 98.8 | 2.9 |
| Subtotal | 653.5 | 904.3 | 537.7 | 972.6 | 1061.2 | 604.8 | 1077.9 | 655.5 |
| Fish Eggs | - | 0.40 | 7.39 | 1.00 | 19.73 | 17.43 | 2.23 | 0.35 |
| Fish Larvae | 0.19 | 0.07 | 0.14 | 0.26 | 1.67 | 1.87 | 0.82 | 0.12 |
| Total | 653.7 | 904.8 | 545.2 | 973.9 | 1082.6 | 624.1 | 1081.0 | 656.0 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------------|-------|-------|--------|-------|--------|--------|--------|--------|
| Protozoa | 640.8 | 566.1 | 488.4 | 158.7 | 162.8 | 6.9 | 73.0 | 893.1 |
| Coelenterata | 1.7 | 0.3 | 4.4 | 2.5 | 0.8 | 3.3 | 2.2 | 1.8 |
| Chaetognatha | 1.1 | 3.9 | 8.6 | 5.1 | 25.6 | 6.9 | 7.2 | 13.0 |
| Misc. Worms | 0.3 | 0.3 | 0.2 | 1.3 | - | - | - | - |
| Copepoda | 16.7 | 54.7 | 410.5 | 303.8 | 471.6 | 432.6 | 445.5 | 605.2 |
| Ostracoda | - | - | - | 1.9 | 3.5 | 7.4 | 4.0 | 1.8 |
| Mysidacea | - | - | 0.5 | 1.3 | 2.0 | 6.1 | 2.9 | - |
| Amphipoda | 0.6 | 2.6 | 5.6 | 9.9 | 57.9 | 40.3 | 7.6 | - |
| Isopoda | - | - | 0.2 | - | - | - | - | - |
| Stomatopoda | - | - | 1.5 | 20.7 | 1.6 | 4.6 | 4.3 | 16.7 |
| Euphausiacea | - | - | 0.5 | 0.3 | - | 0.8 | 0.4 | 0.3 |
| Shrimp | - | 0.5 | 7.6 | 28.0 | 40.9 | 91.9 | 73.0 | 4.0 |
| Crabs | - | 1.0 | 8.6 | 22.9 | 108.5 | 81.1 | 84.5 | 206.1 |
| Misc. Crustaceans | 0.8 | - | 0.7 | 6.0 | 44.9 | 256.9 | 103.7 | 4.3 |
| Pteropoda | - | 0.3 | 1.5 | 7.3 | 66.8 | 2.3 | - | - |
| Misc. Mollusca | 0.8 | 1.3 | 2.9 | 2.5 | 13.4 | 11.0 | 8.3 | 2.8 |
| Larvacea | 1.7 | 9.7 | 55.1 | 32.5 | 171.1 | 6.6 | 2.5 | 1.8 |
| Misc. Tunicata | - | - | 1.5 | 5.7 | 10.2 | 1.3 | - | 2.2 |
| Leptocardia | - | - | - | - | 0.16 | 3.98 | - | - |
| Misc. Organisms | 3.1 | 2.4 | 3.7 | 11.8 | 221.2 | 219.0 | 1171.4 | 196.3 |
| Subtotal | 667.6 | 643.1 | 1002.0 | 622.2 | 1403.0 | 1183.0 | 1990.5 | 1949.4 |
| Fish Eggs | 0.06 | 0.16 | 20.74 | 20.19 | 7.48 | 12.24 | 9.78 | 9.88 |
| Fish Larvae | 0.06 | 0.37 | 1.32 | 3.06 | 13.62 | 3.16 | 0.65 | 0.43 |
| Total | 667.7 | 643.6 | 1024.1 | 645.4 | 1424.1 | 1198.4 | 2000.9 | 1959.7 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Protozoa | 89.4 | 65.5 | 353.3 | 356.9 | 474.6 | 386.9 | 316.1 | 110.3 |
| Coelenterata | 10.6 | 12.1 | 5.6 | 4.5 | 6.3 | 0.8 | 3.3 | 22.5 |
| Chaetognatha | 5.9 | 5.9 | 4.0 | 10.8 | 5.0 | 0.8 | 1.1 | 10.1 |
| Misc. Worms | - | 0.6 | 0.8 | 0.2 | 0.6 | - | 0.9 | - |
| Copepoda | 45.0 | 385.2 | 91.3 | 101.2 | 110.7 | 48.2 | 118.6 | 273.9 |
| Ostracoda | - | - | 0.3 | 1.8 | 1.1 | - | - | - |
| Mysidacea | - | - | 0.3 | 0.2 | - | - | - | - |
| Amphipoda | 0.6 | 0.9 | 2.6 | 0.8 | 0.6 | 1.2 | 3.9 | 3.4 |
| Isopoda | 0.9 | - | - | - | - | - | - | - |
| Stomatopoda | 102.7 | 16.4 | 6.6 | 0.2 | 0.2 | - | 3.9 | 14.1 |
| Euphausiacea | - | - | 0.3 | 3.3 | 4.5 | 0.8 | 0.4 | 0.3 |
| Shrimp | 15.0 | 3.1 | 1.6 | 2.3 | 1.1 | 0.7 | - | 1.3 |
| Crabs | 102.7 | 21.4 | 3.7 | 1.8 | 1.3 | 0.4 | 4.8 | 16.8 |
| Misc. Crustaceans | - | 0.3 | 0.8 | 0.8 | 0.2 | 0.8 | 1.1 | 0.3 |
| Pteropoda | 2.8 | 0.9 | 0.5 | 2.3 | 1.7 | 0.1 | - | 0.3 |
| Misc. Mollusca | 14.1 | 2.8 | 3.4 | 5.5 | 4.3 | 1.2 | 2.4 | 7.0 |
| Larvacea | 14.4 | 56.5 | 9.5 | 5.3 | 3.0 | 2.0 | 14.7 | 19.1 |
| Misc. Tunicata | 0.6 | 1.9 | 0.5 | 0.2 | 0.2 | - | 0.6 | 17.1 |
| Leptocardia | - | - | - | - | - | - | - | - |
| Misc. Organisms | 86.1 | 4.3 | 2.9 | 4.0 | 2.0 | 2.7 | 4.8 | 6.7 |
| Subtotal | 490.8 | 577.8 | 488.0 | 502.1 | 617.4 | 446.6 | 476.6 | 503.2 |
| Fish Eggs | 6.38 | 15.59 | 0.05 | 0.25 | 0.34 | 0.13 | 9.30 | 2.48 |
| Fish Larvae | 0.12 | 0.81 | 0.79 | 0.10 | 0.41 | 0.24 | 0.48 | 1.01 |
| Total | 497.3 | 594.2 | 488.8 | 502.4 | 618.2 | 447.0 | 486.4 | 506.7 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|-------------------|-------|--------|--------|-------|-------|-------|------|-------|
| Protozoa | 8.1 | 4.0 | 7.5 | 6.4 | 7.4 | 16.7 | 22.4 | 44.0 |
| Coelenterata | 13.8 | 3.4 | 1.4 | 1.3 | 2.1 | 5.3 | 1.7 | 3.4 |
| Chaetognatha | 10.3 | 23.0 | 35.5 | 2.3 | 7.0 | 0.7 | 1.6 | 8.3 |
| Misc. Worms | - | 0.3 | - | - | 0.9 | 0.7 | - | 0.3 |
| Copepoda | 232.4 | 623.1 | 1451.3 | 116.3 | 367.4 | 272.1 | 24.6 | 110.5 |
| Ostracoda | 3.3 | 10.1 | 37.1 | 13.0 | 2.4 | 0.3 | - | 0.4 |
| Mysidacea | 0.4 | 4.0 | 11.9 | - | - | - | - | - |
| Amphipoda | 3.1 | 29.0 | 116.4 | 3.3 | 2.8 | - | 0.3 | 1.7 |
| Isopoda | - | 2.0 | 0.9 | - | - | 0.7 | - | - |
| Stomatopoda | 74.4 | 3.0 | 6.5 | 12.2 | 23.0 | 3.7 | - | - |
| Euphausiacea | - | 0.3 | - | - | 0.3 | - | - | - |
| Shrimp | 7.0 | 168.3 | 438.4 | 178.5 | 12.9 | 1.3 | 0.3 | 2.0 |
| Crabs | 18.4 | 93.1 | 188.2 | 40.3 | 48.8 | 7.3 | 3.5 | 2.1 |
| Misc. Crustaceans | 0.2 | 2.4 | 0.7 | 0.5 | 0.6 | 1.7 | 0.5 | 0.4 |
| Pteropoda | 3.3 | 1.0 | - | 8.2 | 0.6 | 1.3 | 0.3 | 2.0 |
| Misc. Mollusca | 2.0 | 3.4 | 2.6 | 40.0 | 8.6 | 7.3 | 2.8 | 11.4 |
| Larvacea | 5.9 | 35.1 | 31.1 | 16.3 | 13.2 | 12.0 | 7.1 | 2.8 |
| Misc. Tunicata | 7.4 | 3.0 | 80.6 | 2.6 | 1.2 | 0.7 | 0.3 | 0.8 |
| Leptocardia | - | - | 0.33 | - | - | - | - | 0.03 |
| Misc. Organisms | 7.2 | 42.9 | 200.6 | 23.5 | 13.2 | 11.3 | 2.1 | 4.6 |
| Subtotal | 397.2 | 1051.4 | 2611.0 | 464.7 | 512.4 | 343.1 | 67.5 | 197.5 |
| Fish Eggs | 5.70 | 35.07 | 7.62 | 23.52 | 4.48 | 3.13 | 0.03 | 0.08 |
| Fish Larvae | 1.01 | 4.59 | 1.21 | 0.92 | 0.92 | 0.13 | 0.24 | 0.43 |
| Total | 403.9 | 1091.1 | 2619.9 | 489.1 | 517.8 | 346.4 | 67.8 | 198.0 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-------------------|--------|--------|-------|-------|--------|-------|-------|-------|
| Protozoa | 47.2 | 61.2 | 20.0 | 77.2 | 4.6 | 2.1 | 34.5 | 27.4 |
| Coelenterata | 5.3 | 3.8 | 1.2 | - | 1.0 | 0.9 | 3.0 | 6.0 |
| Chaetognatha | 4.7 | 3.3 | 25.8 | 8.2 | 11.4 | 4.5 | 21.0 | 4.4 |
| Misc. Worms | 0.4 | 0.8 | 1.9 | - | 2.6 | - | 0.3 | 0.2 |
| Copepoda | 729.9 | 716.4 | 309.8 | 133.6 | 983.8 | 384.9 | 448.0 | 261.3 |
| Ostracoda | 372.8 | 8.8 | 3.1 | - | 3.9 | - | - | 53.4 |
| Mysidacea | - | 0.3 | - | - | - | - | - | - |
| Amphipoda | 8.0 | 3.6 | 2.7 | - | 5.2 | - | 0.6 | 2.5 |
| Isopoda | - | - | - | - | - | - | - | 0.2 |
| Stomatopoda | 7.6 | 7.4 | 26.5 | 31.5 | 7.5 | 27.1 | 10.2 | 2.1 |
| Euphausiacea | 1.3 | - | - | - | - | - | 0.6 | 0.5 |
| Shrimp | 85.3 | 11.5 | 15.0 | 4.7 | 20.9 | 7.1 | 2.8 | 5.5 |
| Crabs | 9.7 | 23.9 | 103.1 | 62.1 | 135.1 | 44.0 | 18.8 | 5.3 |
| Misc. Crustaceans | 0.2 | - | 0.4 | - | 31.4 | 8.0 | 0.8 | 2.5 |
| Pteropoda | 2.3 | 0.8 | - | - | - | 3.3 | 1.4 | 1.4 |
| Misc. Mollusca | 2.8 | 3.6 | 13.8 | - | 12.7 | 1.8 | 5.5 | 0.5 |
| Larvacea | 62.9 | 14.3 | 19.2 | 10.3 | 103.9 | 15.8 | 20.2 | 27.6 |
| Misc. Tunicata | 3.8 | - | 1.2 | - | 1.3 | - | 1.4 | 0.7 |
| Leptocardia | - | - | - | - | 0.26 | - | - | - |
| Misc. Organisms | 601.9 | 489.2 | 15.0 | 3.9 | 11.8 | 7.7 | 8.6 | 24.2 |
| Subtotal | 1946.1 | 1348.9 | 558.7 | 331.5 | 1337.4 | 507.2 | 577.7 | 425.7 |
| Fish Eggs | 8.98 | 5.66 | 7.69 | 1.98 | 20.13 | 26.37 | 2.26 | 1.06 |
| Fish Larvae | 2.12 | 1.43 | 1.69 | 1.90 | 2.74 | 1.07 | 1.05 | 0.64 |
| Total | 1957.2 | 1356.0 | 568.1 | 335.4 | 1360.2 | 534.6 | 581.0 | 427.4 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|-------------------|-------|-------|-------|--------|-------|-------|-------|-------|
| Protozoa | 21.8 | 47.7 | 177.8 | 624.9 | 45.5 | 3.8 | 15.4 | 7.0 |
| Coelenterata | 1.0 | 2.9 | 1.9 | 5.2 | 1.9 | 1.1 | 5.1 | 3.4 |
| Chaetognatha | 2.5 | 4.0 | 2.6 | 98.1 | 10.1 | 7.0 | 3.7 | 7.0 |
| Misc. Worms | - | 0.3 | - | 2.2 | 0.8 | 0.3 | 3.1 | 2.4 |
| Copepoda | 103.2 | 181.2 | 114.5 | 837.5 | 214.2 | 206.3 | 469.4 | 453.6 |
| Ostracoda | 3.8 | 0.6 | - | 33.6 | - | 6.2 | 16.0 | 1.4 |
| Mysidacea | - | - | - | 6.5 | - | 0.5 | 4.6 | 8.4 |
| Amphipoda | 0.2 | 3.1 | 1.9 | 21.3 | 1.1 | 1.4 | 9.4 | 2.9 |
| Isopoda | - | - | - | 0.6 | - | - | 1.1 | 0.7 |
| Stomatopoda | - | 2.9 | - | 1.8 | 8.5 | 7.6 | 0.8 | 0.5 |
| Euphausiacea | 0.2 | 1.0 | 0.6 | - | - | - | - | - |
| Shrimp | 3.0 | 0.8 | - | 206.1 | 1.1 | 7.3 | 41.4 | 15.6 |
| Crabs | 2.8 | 3.9 | 0.6 | 13.3 | 6.9 | 9.7 | 21.7 | 36.5 |
| Misc. Crustaceans | 0.8 | 0.2 | 1.3 | 22.8 | 0.8 | 0.8 | 29.1 | 119.8 |
| Pteropoda | 2.5 | 1.6 | 1.9 | 11.4 | 0.8 | 0.3 | 0.6 | 0.5 |
| Misc. Mollusca | 1.0 | 1.3 | 3.5 | 36.4 | 2.1 | 2.2 | 10.6 | 12.5 |
| Larvacea | 27.8 | 9.7 | 9.7 | 37.6 | 15.2 | 52.4 | 80.6 | 33.9 |
| Misc. Tunicata | 1.5 | 4.7 | 4.5 | 3.4 | 1.1 | 1.1 | 1.7 | 3.6 |
| Leptocardia | - | - | - | - | - | - | 0.06 | - |
| Misc. Organisms | 4.8 | 9.5 | 24.8 | 117.8 | 3.2 | 6.8 | 142.3 | 224.2 |
| Subtotal | 176.9 | 275.4 | 345.6 | 2080.5 | 313.3 | 314.8 | 856.7 | 933.9 |
| Fish Eggs | 0.10 | 0.22 | 52.58 | 27.34 | 1.06 | 12.97 | 36.23 | 5.34 |
| Fish Larvae | 0.50 | 1.22 | 0.26 | 0.18 | 0.90 | 4.16 | 3.66 | 2.74 |
| Total | 177.5 | 276.8 | 398.4 | 2108.0 | 315.3 | 331.9 | 896.6 | 942.0 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
|-------------------|--------|-------|-------|-------|-------|-------|-------|------|
| Protozoa | 8.6 | 0.6 | 124.0 | 200.9 | 138.8 | 170.8 | 47.4 | 19.8 |
| Coelenterata | 4.5 | 2.3 | 2.6 | 3.8 | 7.8 | 2.6 | 2.9 | - |
| Chaetognatha | 7.5 | 5.2 | 6.7 | 4.1 | 10.7 | 6.9 | 7.4 | 5.0 |
| Misc. Worms | 2.0 | - | - | 0.3 | 0.2 | 0.2 | - | - |
| Copepoda | 939.5 | 211.4 | 124.0 | 83.0 | 249.8 | 276.3 | 307.7 | 13.1 |
| Ostracoda | 6.8 | 1.7 | 2.6 | 0.3 | 3.1 | 18.0 | 0.3 | 6.7 |
| Mysidacea | 0.9 | - | - | 0.5 | - | 0.5 | - | - |
| Amphipoda | 4.5 | 0.3 | 0.9 | 3.0 | 7.4 | 1.6 | - | 0.8 |
| Isopoda | 1.1 | - | 0.3 | 0.3 | - | - | - | - |
| Stomatopoda | 9.3 | 23.1 | 6.1 | 0.5 | 4.3 | 1.6 | 4.2 | 2.2 |
| Euphausiacea | - | 0.6 | - | 0.8 | - | 4.3 | - | - |
| Shrimp | 11.6 | 3.2 | 1.8 | - | 1.9 | 1.9 | 0.6 | 3.4 |
| Crabs | 44.1 | 25.7 | 5.6 | 1.1 | 3.8 | 5.2 | 5.8 | 5.6 |
| Misc. Crustaceans | 96.4 | 7.8 | 7.0 | - | 0.2 | - | - | 0.3 |
| Pteropoda | 0.2 | - | - | 0.3 | 4.0 | 2.8 | 1.0 | 0.3 |
| Misc. Mollusca | 6.1 | 0.3 | 1.5 | 2.5 | 3.8 | 1.9 | 7.1 | 0.3 |
| Larvacea | 25.2 | 0.9 | 14.9 | 12.4 | 4.0 | 12.3 | 17.7 | 12.0 |
| Misc. Tunicata | 31.4 | - | 3.8 | 0.5 | 6.2 | 1.9 | 1.3 | 1.4 |
| Leptocardia | - | - | - | - | - | - | - | - |
| Misc. Organisms | 34.3 | 4.9 | 7.9 | 5.8 | 19.8 | 16.6 | 5.2 | 3.6 |
| Subtotal | 1234.0 | 288.0 | 309.7 | 320.1 | 465.8 | 525.4 | 408.6 | 74.5 |
| Fish Eggs | 15.82 | 3.47 | 6.02 | 0.82 | 0.10 | 0.14 | 1.55 | 0.78 |
| Fish Larvae | 6.54 | 0.75 | 1.40 | 0.11 | 0.62 | 1.00 | 0.64 | 2.90 |
| Total | 1256.4 | 292.2 | 317.1 | 321.0 | 466.5 | 526.5 | 410.8 | 78.2 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
|-------------------|-------|-------|-------|--------|-------|-------|-------|-------|
| Protozoa | 9.6 | 19.4 | 42.8 | 779.6 | 393.1 | 375.1 | 241.3 | 458.9 |
| Coelenterata | 10.2 | 5.2 | 4.5 | 6.8 | 6.2 | 8.5 | 4.2 | 4.3 |
| Chaetognatha | 6.8 | 2.2 | 10.5 | 7.3 | 3.5 | 7.7 | 4.3 | 4.3 |
| Misc. Worms | - | - | - | - | 0.3 | 0.4 | 0.1 | - |
| Copepoda | 343.5 | 70.6 | 233.1 | 190.4 | 82.4 | 66.9 | 65.7 | 52.4 |
| Ostracoda | 17.9 | 1.0 | - | - | 0.6 | 1.5 | - | - |
| Mysidacea | 1.2 | - | - | - | - | 1.2 | 0.1 | - |
| Amphipoda | 8.3 | 1.3 | 2.1 | 4.6 | 0.4 | - | 2.3 | 0.6 |
| Isopoda | 1.2 | 0.3 | - | - | - | - | - | - |
| Stomatopoda | 0.9 | 1.3 | 11.7 | 0.5 | 0.1 | 2.3 | - | - |
| Euphausiacea | 0.3 | - | - | 2.4 | 0.7 | 5.0 | 2.2 | 0.6 |
| Shrimp | 38.9 | 15.2 | 15.4 | 0.7 | 1.8 | 0.8 | 1.0 | 1.8 |
| Crabs | 18.5 | 5.5 | 13.6 | 1.2 | 0.7 | 0.4 | 0.6 | 0.3 |
| Misc. Crustaceans | 193.0 | 10.6 | 1.8 | 1.7 | 0.7 | 0.8 | 0.7 | - |
| Pteropoda | - | - | 2.7 | 1.9 | 1.2 | 1.9 | 1.3 | 0.3 |
| Misc. Mollusca | 12.0 | 2.2 | 10.5 | 4.4 | 6.4 | 5.8 | 2.2 | 1.8 |
| Larvacea | 49.4 | 4.8 | 18.1 | 34.7 | 14.9 | 16.5 | 13.0 | 15.2 |
| Misc. Tunicata | 4.6 | 47.4 | 32.8 | 2.9 | 0.6 | - | 0.6 | - |
| Leptocardia | - | - | - | - | - | - | - | - |
| Misc. Organisms | 104.7 | 10.6 | 5.1 | 10.2 | 4.6 | 2.7 | 2.4 | 2.1 |
| Subtotal | 821.0 | 197.6 | 404.7 | 1049.3 | 518.2 | 497.5 | 342.0 | 542.6 |
| Fish Eggs | 4.94 | 3.35 | 6.93 | 0.48 | 0.17 | 0.15 | 0.06 | 0.18 |
| Fish Larvae | 3.27 | 2.58 | 0.96 | 0.14 | 1.00 | 1.38 | 0.75 | 0.12 |
| Total | 829.2 | 203.5 | 412.6 | 1049.9 | 519.4 | 499.0 | 342.8 | 542.9 |

Table 11.--Numbers of plankton organisms per cubic meter of water (high-speed sampler), cont'd

| Tow Number | 74 | 75 |
|-------------------|--------|-------|
| Protozoa | 422.4 | 63.1 |
| Coelenterata | 4.0 | 1.6 |
| Chaetognatha | 7.9 | 2.7 |
| Misc. Worms | 0.7 | - |
| Copepoda | 464.4 | 56.8 |
| Ostracoda | 97.1 | - |
| Mysidacea | 1.7 | - |
| Amphipoda | 6.9 | 0.4 |
| Isopoda | - | - |
| Stomatopoda | 1.0 | - |
| Euphausiacea | - | - |
| Shrimp | 35.1 | 1.4 |
| Crabs | 10.6 | 0.4 |
| Misc. Crustaceans | 1.2 | - |
| Pteropoda | 10.6 | 0.2 |
| Misc. Mollusca | 20.8 | 1.6 |
| Larvacea | 97.1 | 15.4 |
| Misc. Tunicata | 7.7 | 1.1 |
| Leptocardia | - | - |
| Misc. Organisms | 157.4 | 1.1 |
| Subtotal | 1346.6 | 145.8 |
| Fish Eggs | 12.28 | 15.20 |
| Fish Larvae | 0.69 | 2.90 |
| Total | 1359.6 | 163.9 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler)

| Run No. 1 | Date June 23, 1954 | | | | | | | |
|----------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 0454 | 0558 | 0701 | 0805 | 0908 | 1012 | 1115 | 1219 |
| Position of (N. Lat. | 27°00' | 27°01' | 27°01' | 27°01' | 27°00' | 27°01' | 27°08' | 27°16' |
| Ship: (W. Long. | 79°23' | 79°32' | 79°40' | 79°44' | 79°54' | 80°03' | 80°03' | 80°03' |
| Protozoa | 242.7 | 18.0 | 170.8 | 89.9 | 71.9 | - | - | 18.0 |
| Coelenterata | 9.0 | - | - | - | 18.0 | - | - | - |
| Chaetognatha | - | 36.0 | 9.0 | - | 27.0 | 9.0 | 27.0 | 18.0 |
| Misc. Worms | 9.0 | - | - | - | - | - | - | - |
| Copepoda | 431.5 | 170.8 | 260.7 | 197.8 | 1438.4 | 36.0 | 161.8 | 233.7 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | 18.0 | - | 9.0 | - |
| Crabs | 9.0 | - | - | - | 53.9 | - | 9.0 | - |
| Misc. Crustaceans | - | - | 9.0 | 9.0 | 9.0 | - | 9.0 | - |
| Mollusca | - | - | - | 9.0 | 9.0 | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 9.0 | 18.0 | 27.0 | 45.0 | 98.9 | 9.0 | 27.0 | 53.9 |
| Subtotal | 710.2 | 242.8 | 476.5 | 350.7 | 1744.1 | 54.0 | 242.8 | 323.6 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 710.2 | 242.8 | 476.5 | 350.7 | 1744.1 | 54.0 | 242.8 | 323.6 |

| Run No. 2 | Date June 23, 1954 | | | | | | | |
|----------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 1347 | 1448 | 1549 | 1650 | 1751 | 1852 | 1953 | 2054 |
| Position of (N. Lat. | 27°27' | 27°35' | 27°40' | 27°40' | 27°41' | 27°40' | 27°43' | 27°46' |
| Ship: (W. Long. | 80°05' | 80°04' | 80°02' | 79°55' | 79°45' | 79°42' | 79°40' | 79°32' |
| Protozoa | 45.8 | 160.2 | 221.3 | 167.9 | - | 61.0 | 259.4 | 160.2 |
| Coelenterata | - | - | - | - | - | 7.6 | - | - |
| Chaetognatha | - | 7.6 | 30.5 | 38.2 | - | - | 7.6 | 7.6 |
| Misc. Worms | - | 7.6 | - | - | - | - | 22.9 | - |
| Copepoda | 183.1 | 526.5 | 381.5 | 587.5 | 198.4 | 76.3 | 793.5 | 137.3 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | 7.6 | 7.6 | 7.6 | - | 7.6 | 7.6 | - |
| Shrimp | 7.6 | 22.9 | - | - | - | - | - | - |
| Crabs | 30.5 | 7.6 | 7.6 | 15.3 | - | - | - | - |
| Misc. Crustaceans | 22.9 | - | - | 15.3 | - | 7.6 | 22.9 | 15.3 |
| Mollusca | - | 7.6 | 7.6 | - | - | - | 15.3 | - |
| Invertebrate Eggs | - | - | - | - | - | - | 38.2 | - |
| Misc. Organisms | 7.6 | 76.3 | 91.6 | 99.2 | 7.6 | 53.4 | 68.7 | 15.3 |
| Subtotal | 297.5 | 823.9 | 747.7 | 931.0 | 206.0 | 213.5 | 1236.1 | 335.7 |
| Fish Eggs | 7.6 | 7.6 | 7.6 | 7.6 | - | 7.6 | 7.6 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 305.1 | 831.5 | 755.3 | 938.6 | 206.0 | 221.1 | 1243.7 | 335.7 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

| Run No. 3 | Date June 23-24, 1954 | | | | | | | |
|----------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 2212 | 2316 | 0020 | 0124 | 0228 | 0332 | 0436 | 0540 |
| Position of (N. Lat. | 27°44' | 27°41' | 27°44' | 27°51' | 27°55' | 27°58' | 28°02' | 28°08' |
| Ship: (W. Long. | 79°22' | 79°18' | 79°16' | 79°08' | 79°02' | 79°03' | 79°10' | 79°20' |
| Protozoa | 268.2 | 196.9 | 138.3 | 129.9 | 41.9 | 37.7 | 41.9 | 163.4 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 4.2 | - | - | - | - | 8.4 | - | 8.4 |
| Misc. Worms | - | 4.2 | 4.2 | - | - | 4.2 | 4.2 | - |
| Copepoda | 196.9 | 146.6 | 21.0 | 92.2 | 117.3 | 16.8 | 46.1 | 129.9 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | 4.2 | - | - | - | - | 4.2 | - |
| Crabs | - | - | - | - | - | - | - | - |
| Misc. Crustaceans | 4.2 | - | - | - | - | - | - | - |
| Mollusca | - | - | - | - | 8.4 | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 4.2 | 8.4 | 8.4 | 25.1 | 33.5 | 8.4 | 12.6 | 16.8 |
| Subtotal | 477.7 | 360.3 | 171.9 | 247.2 | 201.1 | 75.5 | 109.0 | 318.5 |
| Fish Eggs | - | - | - | - | - | - | 4.2 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 477.7 | 360.3 | 171.9 | 247.2 | 201.1 | 75.5 | 113.2 | 318.5 |

| Run No. 4 | Date June 24, 1954 | | | | | | | |
|----------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 0651 | 0754 | 0856 | 0959 | 1101 | 1204 | 1306 | 1409 |
| Position of (N. Lat. | 28°18' | 28°20' | 28°21' | 28°20' | 28°21' | 28°23' | 28°21' | 28°20' |
| Ship: (W. Long. | 79°25' | 79°26' | 79°33' | 79°42' | 79°48' | 79°52' | 80°04' | 80°11' |
| Protozoa | 138.6 | 180.2 | 249.5 | 369.6 | 166.3 | 323.4 | 263.3 | 92.4 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 4.6 | - | 9.2 | - | - | 32.3 | - | 4.6 |
| Misc. Worms | - | - | - | - | - | - | 4.6 | - |
| Copepoda | 55.4 | 55.4 | 46.2 | 41.6 | 23.1 | 27.7 | 69.3 | 73.9 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | - |
| Crabs | 4.6 | - | 4.6 | - | - | - | - | 18.5 |
| Misc. Crustaceans | - | - | 9.2 | - | - | - | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | 4.6 | - | - | - | - | - |
| Misc. Organisms | 4.6 | - | 4.6 | - | 4.6 | - | 13.9 | 41.6 |
| Subtotal | 207.8 | 235.6 | 327.9 | 411.2 | 194.0 | 383.4 | 351.1 | 231.0 |
| Fish Eggs | - | - | - | - | - | - | - | 4.6 |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 207.8 | 235.6 | 327.9 | 411.2 | 194.0 | 383.4 | 351.1 | 235.6 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 5 Date June 24, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1521 | 1623 | 1726 | 1828 | 1931 | 2033 | 2136 | 2238 |
| Position of (N. Lat. | 28°20' | 28°20' | 28°23' | 28°30' | 28°38' | 28°45' | 28°53' | 28°59' |
| Ship: (W. Long. | 80°20' | 80°28' | 80°28' | 80°23' | 80°23' | 80°26' | 80°29' | 80°30' |
| Protozoa | 155.9 | 86.6 | 52.0 | 69.3 | 155.9 | 43.3 | 52.0 | 52.0 |
| Coelenterata | - | - | - | - | - | - | - | 8.7 |
| Chaetognatha | 69.3 | - | 26.0 | 26.0 | 26.0 | 34.6 | 60.6 | 26.0 |
| Misc. Worms | - | - | - | - | - | - | - | 8.7 |
| Copepoda | 459.0 | 346.4 | 147.2 | 173.2 | 329.1 | 103.9 | 259.8 | 459.0 |
| Ostracoda | - | - | - | - | - | - | - | 17.3 |
| Amphipoda | - | - | - | - | - | - | - | 8.7 |
| Shrimp | - | 8.7 | - | 52.0 | 43.3 | 43.3 | 69.3 | 77.9 |
| Crabs | 103.9 | 43.3 | 69.3 | 8.7 | 8.7 | 17.3 | 17.3 | 43.3 |
| Misc. Crustaceans | 8.7 | 17.3 | 17.3 | 26.0 | 103.9 | 77.9 | 43.3 | 60.6 |
| Mollusca | 17.3 | - | 8.7 | 8.7 | - | - | 17.3 | - |
| Invertebrate Eggs | 26.0 | - | - | - | - | - | 17.3 | 26.0 |
| Misc. Organisms | 17.3 | 8.7 | 52.0 | 52.0 | - | - | 190.5 | 277.1 |
| Subtotal | 857.4 | 511.0 | 372.5 | 415.9 | 666.9 | 320.3 | 727.4 | 1065.3 |
| Fish Eggs | 8.7 | - | - | - | - | 8.7 | - | 17.3 |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 866.1 | 511.0 | 372.5 | 415.9 | 666.9 | 329.0 | 727.4 | 1082.6 |

Run No. 6 Date June 24-25, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 2348 | 0048 | 0148 | 0248 | 0348 | 0448 | 0548 | 0648 |
| Position of (N. Lat. | 29°00' | 29°00' | 29°01' | 28°59' | 28°58' | 28°59' | 29°02' | 29°02' |
| Ship: (W. Long. | 80°23' | 80°12' | 80°08' | 80°00' | 79°52' | 79°47' | 79°45' | 79°38' |
| Protozoa | 30.6 | 85.8 | 122.6 | 239.1 | 98.1 | 232.9 | 61.3 | 73.6 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | - | 12.3 | 36.8 | 18.4 | 6.1 | 6.1 | - | - |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 484.3 | 282.0 | 306.5 | 61.3 | 67.4 | 171.6 | 67.4 | 85.8 |
| Ostracoda | - | - | - | - | - | 12.3 | - | - |
| Amphipoda | 12.3 | 6.1 | - | - | - | - | - | - |
| Shrimp | 73.6 | 24.5 | - | 6.1 | - | - | - | - |
| Crabs | 55.2 | 6.1 | 18.4 | 6.1 | - | - | 6.1 | 6.1 |
| Misc. Crustaceans | 18.4 | - | 6.1 | 6.1 | - | 6.1 | 6.1 | - |
| Mollusca | - | - | 6.1 | 6.1 | - | - | - | - |
| Invertebrate Eggs | 6.1 | - | - | 6.1 | - | - | - | 6.1 |
| Misc. Organisms | 42.9 | 30.6 | 67.4 | - | 6.1 | 12.3 | 6.1 | - |
| Subtotal | 723.4 | 447.4 | 563.9 | 349.3 | 177.7 | 441.3 | 147.0 | 171.6 |
| Fish Eggs | 12.3 | 6.1 | - | 6.1 | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 735.7 | 453.5 | 563.9 | 355.4 | 177.7 | 441.3 | 147.0 | 171.6 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 7 Date June 25, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0800 | 0903 | 1007 | 1110 | 1214 | 1317 | 1421 | 1524 |
| Position of (N. Lat. | 29°00' | 29°00' | 29°03' | 29°13' | 29°23' | 29°33' | 29°37' | 29°39' |
| Ship: (W. Long. | 79°29' | 79°26' | 79°27' | 79°32' | 79°34' | 79°35' | 79°37' | 79°41' |
| Protozoa | 157.2 | 230.6 | 277.7 | 183.4 | 199.1 | 419.2 | 220.1 | 209.6 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | - | - | - | - | - | 10.5 | - | 5.2 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 89.1 | 68.1 | 52.4 | 36.7 | 31.4 | 47.2 | 47.2 | 31.4 |
| Ostracoda | 5.2 | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | - |
| Crabs | 10.5 | - | - | 5.2 | - | - | - | - |
| Misc. Crustaceans | 10.5 | 5.2 | 5.2 | - | - | - | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 10.5 | 5.2 | - | - | - | - | - | 15.7 |
| Subtotal | 283.0 | 309.1 | 335.3 | 225.3 | 230.5 | 476.9 | 267.3 | 261.9 |
| Fish Eggs | - | - | - | - | 5.2 | 5.2 | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 283.0 | 309.1 | 335.3 | 225.3 | 235.7 | 482.1 | 267.3 | 261.9 |

Run No. 8 Date June 25, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1633 | 1734 | 1835 | 1936 | 2037 | 2138 | 2239 | 2340 |
| Position of (N. Lat. | 29°39' | 29°40' | 29°43' | 29°44' | 29°43' | 29°40' | 29°40' | 29°40' |
| Ship: (W. Long. | 79°50' | 79°57' | 80°01' | 80°07' | 80°15' | 80°21' | 80°29' | 80°39' |
| Protozoa | 196.2 | 212.6 | 245.2 | 147.2 | 81.8 | 70.8 | 70.8 | 32.7 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 5.4 | - | 5.4 | 10.9 | 5.4 | - | 5.4 | 5.4 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 130.8 | 98.1 | 27.2 | 621.3 | 212.6 | 92.6 | 218.0 | 98.1 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | 5.4 | - | - | - | 21.8 | - | 16.4 | - |
| Shrimp | - | - | - | - | - | 16.4 | 16.4 | - |
| Crabs | - | - | - | 5.4 | - | 5.4 | 16.4 | 5.4 |
| Misc. Crustaceans | - | - | - | 5.4 | 5.4 | - | - | 16.4 |
| Mollusca | 5.4 | - | - | - | 5.4 | - | 5.4 | 5.4 |
| Invertebrate Eggs | - | - | - | 10.9 | 5.4 | - | - | - |
| Misc. Organisms | 21.8 | - | 10.9 | 136.2 | 38.2 | 10.9 | 49.0 | 38.2 |
| Subtotal | 365.0 | 310.7 | 288.7 | 937.3 | 376.0 | 196.1 | 397.8 | 201.6 |
| Fish Eggs | 5.4 | 5.4 | - | 21.8 | - | - | 21.8 | 5.4 |
| Fish Larvae | - | - | - | - | - | - | 5.4 | 5.4 |
| Total | 370.4 | 316.1 | 288.7 | 959.1 | 376.0 | 196.1 | 425.0 | 212.4 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 9 Date June 26, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0102 | 0206 | 0310 | 0414 | 0518 | 0622 | 0726 | 0830 |
| Position of (N. Lat. | 29°40' | 29°40' | 29°41' | 29°50' | 29°58' | 30°06' | 30°13' | 30°19' |
| Ship: (W. Long. | 80°49' | 81°01' | 81°08' | 81°09' | 81°12' | 81°14' | 81°17' | 81°15' |
| Protozoa | 35.5 | 97.7 | 115.4 | 115.4 | 381.8 | 26.6 | - | - |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 26.6 | 124.3 | 62.2 | 62.2 | 17.8 | 35.5 | 97.7 | 17.8 |
| Misc. Worms | - | - | 8.9 | 8.9 | 8.9 | - | - | - |
| Copepoda | 799.2 | 923.5 | 603.8 | 852.5 | 808.1 | 843.6 | 151.0 | 88.8 |
| Ostracoda | - | 8.9 | - | - | - | - | - | - |
| Amphipoda | 79.9 | 17.8 | 71.0 | 8.9 | - | - | - | - |
| Shrimp | 115.4 | 62.2 | 79.9 | 35.5 | 8.9 | 17.8 | 17.8 | - |
| Crabs | 35.5 | 17.8 | 44.4 | 44.4 | 44.4 | 53.3 | 44.4 | 17.8 |
| Misc. Crustaceans | 79.9 | 8.9 | 159.8 | 115.4 | 53.3 | 44.4 | 35.5 | 17.8 |
| Mollusca | 17.8 | - | - | 26.6 | 17.8 | - | - | - |
| Invertebrate Eggs | 17.8 | - | - | - | 35.5 | 26.6 | - | - |
| Misc. Organisms | 62.2 | 79.9 | 106.6 | 133.2 | 71.0 | 35.5 | 17.8 | - |
| Subtotal | 1269.8 | 1341.0 | 1252.0 | 1403.0 | 1447.5 | 1083.3 | 364.2 | 142.2 |
| Fish Eggs | 17.8 | 8.9 | 26.6 | 44.4 | 8.9 | 26.6 | - | - |
| Fish Larvae | 8.9 | 8.9 | - | - | - | - | - | - |
| Total | 1296.5 | 1358.8 | 1278.6 | 1447.4 | 1456.4 | 1109.9 | 364.2 | 142.2 |

Run No. 10 Date June 26, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0947 | 1051 | 1155 | 1259 | 1403 | 1507 | 1611 | 1715 |
| Position of (N. Lat. | 30°19' | 30°20' | 30°19' | 30°19' | 30°20' | 30°20' | 30°21' | 30°21' |
| Ship: (W. Long. | 81°08' | 80°59' | 80°51' | 80°40' | 80°33' | 80°24' | 80°14' | 80°09' |
| Protozoa | 13.0 | 25.9 | 19.4 | 6.5 | 58.3 | 6.5 | 58.3 | 162.0 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | - | - | - | - | - | 25.9 | 25.9 | 19.4 |
| Misc. Worms | - | - | - | - | - | 6.5 | 6.5 | - |
| Copepoda | 499.0 | 123.1 | 97.2 | 298.1 | 142.6 | 187.9 | 252.7 | 213.8 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | 19.4 | - | - | - | - | - | 38.9 |
| Shrimp | 13.0 | 6.5 | - | - | - | - | - | - |
| Crabs | 103.7 | 6.5 | 13.0 | 13.0 | 19.4 | 6.5 | 19.4 | 6.5 |
| Misc. Crustaceans | 6.5 | 19.4 | 13.0 | - | 13.0 | 6.5 | - | 6.5 |
| Mollusca | - | - | 6.5 | - | - | - | - | - |
| Invertebrate Eggs | - | 6.5 | 13.0 | 13.0 | 6.5 | - | 6.5 | - |
| Misc. Organisms | 13.0 | 6.5 | 6.5 | 13.0 | 25.9 | 84.2 | 38.9 | 110.2 |
| Subtotal | 648.2 | 213.8 | 168.6 | 343.6 | 265.7 | 324.0 | 408.2 | 557.3 |
| Fish Eggs | - | - | - | 6.5 | 13.0 | 6.5 | 6.5 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 648.2 | 213.8 | 168.6 | 350.1 | 278.7 | 330.5 | 414.7 | 557.3 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 11 Date June 26-27, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1827 | 1931 | 2036 | 2140 | 2245 | 2349 | 0054 | 0158 |
| Position of (N. Lat. | 30°20' | 30°21' | 30°24' | 30°25' | 30°24' | 30°21' | 30°26' | 30°35' |
| Ship: (W. Long. | 80°00' | 79°51' | 79°47' | 79°41' | 79°34' | 79°27' | 79°24' | 79°20' |
| Protozoa | 69.7 | 49.8 | 89.6 | 14.9 | 54.8 | 69.7 | 164.3 | 129.5 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 5.0 | - | 19.9 | 10.0 | 5.0 | - | 24.9 | 5.0 |
| Misc. Worms | - | - | - | - | - | - | 5.0 | - |
| Copepoda | 403.4 | 234.1 | 124.5 | 44.8 | 89.6 | 59.8 | 139.4 | 84.7 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | 5.0 | - | - |
| Shrimp | 5.0 | - | - | - | 5.0 | 5.0 | - | - |
| Crabs | 29.9 | 10.0 | 10.0 | - | 5.0 | - | - | - |
| Misc. Crustaceans | 29.9 | - | - | - | 5.0 | 10.0 | - | 5.0 |
| Mollusca | - | - | - | - | - | 10.0 | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 19.9 | 64.7 | 19.9 | - | - | 10.0 | 14.9 | 5.0 |
| Subtotal | 562.8 | 358.6 | 263.9 | 69.7 | 164.4 | 169.5 | 348.5 | 229.2 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 562.8 | 358.6 | 263.9 | 69.7 | 164.4 | 169.5 | 348.5 | 229.2 |

Run No. 12 Date June 27, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0312 | 0416 | 0521 | 0625 | 0730 | 0834 | 0939 | 1043 |
| Position of (N. Lat. | 30°49' | 30°57' | 30°59' | 30°59' | 30°57' | 30°57' | 30°56' | 30°58' |
| Ship: (W. Long. | 79°16' | 79°12' | 79°10' | 79°11' | 79°16' | 79°25' | 79°31' | 79°36' |
| Protozoa | 197.6 | 57.2 | 109.2 | 130.0 | 67.6 | 187.2 | 20.8 | 119.6 |
| Coelenterata | - | - | 5.2 | 5.2 | - | - | - | - |
| Chaetognatha | - | - | 15.6 | 5.2 | - | 5.2 | - | 5.2 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 176.8 | 46.8 | 78.0 | 156.0 | 52.0 | 36.4 | 15.6 | 26.0 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | 10.4 | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | - |
| Crabs | 10.4 | - | 5.2 | - | - | - | - | - |
| Misc. Crustaceans | - | - | - | 5.2 | - | 5.2 | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | - | 5.2 | 5.2 | 5.2 | 10.4 | - | - | 26.0 |
| Subtotal | 395.2 | 109.2 | 218.4 | 306.8 | 130.0 | 234.0 | 36.4 | 176.8 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 395.2 | 109.2 | 218.4 | 306.8 | 130.0 | 234.0 | 36.4 | 176.8 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 13 Date June 27, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1301 | 1403 | 1506 | 1608 | 1711 | 1813 | 1916 | 2018 |
| Position of (N. Lat. | 31°01' | 31°01' | 31°00' | 31°01' | 31°00' | 31°00' | 30°59' | 30°59' |
| Ship: (W. Long. | 79°43' | 79°51' | 80°00' | 80°08' | 80°17' | 80°24' | 80°30' | 80°38' |
| Protozoa | 139.0 | 129.8 | 46.4 | 46.4 | 18.5 | - | 9.3 | 37.1 |
| Coelenterata | 9.3 | - | 9.3 | 27.8 | - | 9.3 | - | - |
| Chaetognatha | - | 27.8 | 37.1 | 18.5 | 9.3 | 9.3 | 9.3 | 18.5 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 166.9 | 380.1 | 287.4 | 676.7 | 120.5 | 120.5 | 37.1 | 111.2 |
| Ostracoda | - | - | - | - | - | - | - | 9.3 |
| Amphipoda | - | - | - | 9.3 | - | - | - | 9.3 |
| Shrimp | - | - | - | - | - | - | - | 18.5 |
| Crabs | - | - | - | - | - | - | - | - |
| Misc. Crustaceans | - | - | - | - | - | - | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 9.3 | 55.6 | 55.6 | 64.9 | 9.3 | 9.3 | 9.3 | 18.5 |
| Subtotal | 324.5 | 593.3 | 435.8 | 843.6 | 157.6 | 148.4 | 65.0 | 222.4 |
| Fish Eggs | - | 74.2 | - | - | - | - | - | 9.3 |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 324.5 | 667.5 | 435.8 | 843.6 | 157.6 | 148.4 | 65.0 | 231.7 |

Run No. 14 Date July 2, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0157 | 0303 | 0409 | 0515 | 0621 | 0727 | 0833 | 0939 |
| Position of (N. Lat. | 31°24' | 31°33' | 31°40' | 31°40' | 31°39' | 31°38' | 31°38' | 31°36' |
| Ship: (W. Long. | 80°51' | 80°43' | 80°37' | 80°31' | 80°23' | 80°14' | 80°06' | 79°55' |
| Protozoa | - | - | 25.5 | 17.0 | - | - | - | - |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 67.9 | 84.9 | 34.0 | 17.0 | 42.4 | 17.0 | 25.5 | 8.5 |
| Misc. Worms | - | - | - | - | - | - | - | 17.0 |
| Copepoda | 815.0 | 967.9 | 339.6 | 382.0 | 101.9 | 169.8 | 866.0 | 263.2 |
| Ostracoda | 50.9 | 8.5 | 110.4 | 84.9 | 8.5 | - | - | - |
| Amphipoda | 67.9 | 42.4 | 34.0 | - | - | - | - | - |
| Shrimp | 161.3 | 127.4 | 127.4 | 161.3 | 8.5 | 8.5 | - | - |
| Crabs | 93.4 | 76.4 | 101.9 | 59.4 | 25.5 | 42.4 | 8.5 | - |
| Misc. Crustaceans | 34.0 | 8.5 | 59.4 | 84.9 | 25.5 | 17.0 | 17.0 | 8.5 |
| Mollusca | - | - | - | 8.5 | - | - | - | - |
| Invertebrate Eggs | - | - | 135.8 | - | - | - | - | - |
| Misc. Organisms | 203.8 | 135.8 | 169.8 | 17.0 | 50.9 | 17.0 | 42.4 | 50.9 |
| Subtotal | 1494.2 | 1451.8 | 1137.8 | 832.0 | 263.2 | 271.7 | 959.4 | 348.1 |
| Fish Eggs | - | - | 8.5 | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 1494.2 | 1451.8 | 1146.3 | 832.0 | 263.2 | 271.7 | 959.4 | 348.1 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 15 Date July 2, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1151 | 1253 | 1356 | 1458 | 1601 | 1703 | 1806 | 1908 |
| Position of (N. Lat. | 31°31' | 31°32' | 31°33' | 31°32' | 31°30' | 31°28' | 31°30' | 31°31' |
| Ship: (W. Long. | 79°36' | 79°29' | 79°23' | 79°12' | 79°00' | 78°46' | 78°40' | 78°40' |
| Protozoa | - | 20.6 | 10.3 | 5.2 | 41.2 | - | 5.2 | 15.4 |
| Coelenterata | - | 10.3 | - | - | 5.2 | - | - | - |
| Chaetognatha | 5.2 | - | 10.3 | 5.2 | 5.2 | - | - | 15.4 |
| Misc. Worms | - | 5.2 | - | - | - | - | - | - |
| Copepoda | 396.6 | 432.6 | 247.2 | 226.6 | 108.2 | 92.7 | 113.3 | 200.8 |
| Ostracoda | - | - | 15.4 | 10.3 | - | - | - | - |
| Amphipoda | - | - | 10.3 | - | - | - | - | - |
| Shrimp | 5.2 | - | - | - | - | 5.2 | 5.2 | 5.2 |
| Crabs | 15.4 | 5.2 | 5.2 | 5.2 | - | 5.2 | 5.2 | - |
| Misc. Crustaceans | 10.3 | 10.3 | - | - | - | 5.2 | - | 5.2 |
| Mollusca | - | - | - | - | - | 5.2 | - | 5.2 |
| Invertebrate Eggs | - | - | 5.2 | 5.2 | - | - | - | - |
| Misc. Organisms | 41.2 | - | 36.0 | 20.6 | 5.2 | 5.2 | 20.6 | 20.6 |
| Subtotal | 473.9 | 484.2 | 339.9 | 278.3 | 165.0 | 118.7 | 149.5 | 267.8 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 473.9 | 484.2 | 339.9 | 278.3 | 165.0 | 118.7 | 149.5 | 267.8 |

Run No. 16 Date July 2-3, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 2023 | 2124 | 2225 | 2326 | 0027 | 0128 | 0229 | 0330 |
| Position of (N. Lat. | 31°37' | 31°40' | 31°43' | 31°46' | 31°47' | 31°52' | 31°55' | 31°57' |
| Ship: (W. Long. | 78°46' | 78°53' | 78°57' | 78°55' | 78°56' | 79°00' | 79°07' | 79°14' |
| Protozoa | 29.6 | - | - | 5.9 | 41.4 | 5.9 | 11.8 | - |
| Coelenterata | - | - | - | - | 5.9 | 5.9 | - | 5.9 |
| Chaetognatha | 5.9 | 17.8 | 11.8 | - | 23.7 | 11.8 | 11.8 | 5.9 |
| Misc. Worms | - | - | 5.9 | 5.9 | - | 5.9 | - | - |
| Copepoda | 195.4 | 100.6 | 118.4 | 124.3 | 230.9 | 1083.4 | 1101.1 | 260.5 |
| Ostracoda | - | - | - | 5.9 | - | 225.0 | 290.1 | 29.6 |
| Amphipoda | - | - | - | 5.9 | - | - | 11.8 | - |
| Shrimp | 5.9 | - | - | - | 5.9 | 5.9 | 59.2 | 17.8 |
| Crabs | - | - | - | - | - | 5.9 | - | - |
| Misc. Crustaceans | 5.9 | - | - | - | - | 5.9 | 5.9 | - |
| Mollusca | 11.8 | - | - | 5.9 | - | - | 5.9 | - |
| Invertebrate Eggs | 11.8 | - | - | - | - | 106.6 | 242.7 | 23.7 |
| Misc. Organisms | 11.8 | 5.9 | - | - | 35.5 | 41.4 | 100.6 | 11.8 |
| Subtotal | 278.1 | 124.3 | 136.1 | 153.8 | 343.3 | 1503.6 | 1840.9 | 355.2 |
| Fish Eggs | 5.9 | - | - | - | - | 11.8 | - | - |
| Fish Larvae | - | - | - | - | - | 5.9 | - | - |
| Total | 284.0 | 124.3 | 136.1 | 153.8 | 343.3 | 1521.3 | 1840.9 | 355.2 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

| Run No. 17 | Date July 3, 1954 | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 0509 | 0610 | 0712 | 0813 | 0915 | 1016 | 1118 | 1219 |
| Position of (N. Lat. | 32°06' | 32°09' | 32°14' | 32°21' | 32°27' | 32°31' | 32°39' | 32°44' |
| Ship: (W. Long. | 79°20' | 79°29' | 79°35' | 79°43' | 79°47' | 79°41' | 79°31' | 79°28' |
| Protozoa | 20.8 | 20.8 | - | - | - | - | - | 6.9 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 6.9 | - | - | 13.9 | 20.8 | 20.8 | 131.7 | 62.4 |
| Misc. Worms | - | - | - | - | - | - | - | 6.9 |
| Copepoda | 457.4 | 589.0 | 540.5 | 533.6 | 180.2 | 277.2 | 859.3 | 1316.7 |
| Ostracoda | 41.6 | - | 6.9 | - | - | 138.6 | 20.8 | - |
| Amphipoda | - | - | - | - | - | 6.9 | 6.9 | - |
| Shrimp | 13.9 | - | - | - | - | - | - | - |
| Crabs | - | 13.9 | 27.7 | 20.8 | 6.9 | 20.8 | 69.3 | 83.2 |
| Misc. Crustaceans | 13.9 | 13.9 | - | - | 6.9 | 34.6 | 20.8 | - |
| Mollusca | - | - | - | 6.9 | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | 20.8 | - | 13.9 |
| Misc. Organisms | 27.7 | 6.9 | 13.9 | 20.8 | 6.9 | 6.9 | 48.5 | 20.8 |
| Subtotal | 582.2 | 644.5 | 589.0 | 596.0 | 221.7 | 526.6 | 1157.3 | 1510.8 |
| Fish Eggs | 6.9 | - | - | 6.9 | - | - | 20.8 | 20.8 |
| Fish Larvae | - | - | - | - | - | - | 6.9 | - |
| Total | 589.1 | 644.5 | 589.0 | 602.9 | 221.7 | 526.6 | 1185.0 | 1531.6 |

| Run No. 18 | Date July 3, 1954 | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 1327 | 1429 | 1531 | 1633 | 1735 | 1837 | 1939 | 2041 |
| Position of (N. Lat. | 32°51' | 32°53' | 32°48' | 32°42' | 32°38' | 32°32' | 32°27' | 32°25' |
| Ship: (W. Long. | 79°20' | 79°14' | 79°08' | 79°02' | 78°57' | 78°51' | 78°44' | 78°42' |
| Protozoa | - | 22.6 | - | - | 33.9 | - | - | 33.9 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 22.6 | - | - | - | 11.3 | 11.3 | - | 22.6 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 1254.3 | 497.2 | 124.3 | 180.8 | 644.1 | 259.9 | 519.8 | 406.8 |
| Ostracoda | - | - | - | - | - | 11.3 | 11.3 | 79.1 |
| Amphipoda | - | 11.3 | - | - | - | - | 11.3 | - |
| Shrimp | - | - | 11.3 | - | - | 11.3 | - | 11.3 |
| Crabs | 113.0 | - | - | 22.6 | 67.8 | 11.3 | - | 22.6 |
| Misc. Crustaceans | 11.3 | 22.6 | - | - | 11.3 | 22.6 | 11.3 | 11.3 |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 135.6 | 22.6 | 11.3 | 11.3 | 67.8 | 22.6 | 67.8 | 67.8 |
| Subtotal | 1536.8 | 576.3 | 146.9 | 214.7 | 836.2 | 350.3 | 621.5 | 655.4 |
| Fish Eggs | 11.3 | - | - | - | - | - | - | 11.3 |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 1548.1 | 576.3 | 146.9 | 214.7 | 836.2 | 350.3 | 621.5 | 666.7 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 19 Date July 3-4, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 2203 | 2304 | 0006 | 0107 | 0209 | 0310 | 0412 | 0513 |
| Position of (N. Lat. | 32°19' | 32°12' | 32°11' | 32°08' | 32°01' | 31°56' | 31°58' | 32°03' |
| Ship: (W. Long. | 78°35' | 78°29' | 78°26' | 78°23' | 78°15' | 78°08' | 78°04' | 77°54' |
| Protozoa | 9.0 | - | - | 9.0 | 9.0 | 4.5 | - | 4.5 |
| Coelenterata | - | - | - | 4.5 | 4.5 | 4.5 | - | 4.5 |
| Chaetognatha | 4.5 | 4.5 | 9.0 | 9.0 | - | 4.5 | 9.0 | 13.4 |
| Misc. Worms | - | - | 4.5 | - | - | - | - | - |
| Copepoda | 506.2 | 362.9 | 233.0 | 255.4 | 905.0 | 183.7 | 537.6 | 286.7 |
| Ostracoda | 13.4 | 13.4 | 4.5 | 13.4 | 13.4 | - | - | - |
| Amphipoda | 4.5 | - | 17.9 | - | - | 4.5 | - | - |
| Shrimp | - | 4.5 | - | - | - | - | 4.5 | - |
| Crabs | 13.4 | - | - | 9.0 | 9.0 | 9.0 | - | - |
| Misc. Crustaceans | 13.4 | 9.0 | 9.0 | - | 9.0 | 4.5 | - | 4.5 |
| Mollusca | 9.0 | 4.5 | - | - | 9.0 | 4.5 | - | 9.0 |
| Invertebrate Eggs | 9.0 | 31.4 | - | - | 22.4 | - | - | - |
| Misc. Organisms | 31.4 | 31.4 | 35.8 | 22.4 | 98.6 | 76.2 | 49.3 | 44.8 |
| Subtotal | 613.8 | 461.6 | 313.7 | 322.7 | 1079.9 | 295.9 | 600.4 | 367.4 |
| Fish Eggs | - | - | 4.5 | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | 9.0 | - | - |
| Total | 613.8 | 461.6 | 318.2 | 322.7 | 1079.9 | 304.9 | 600.4 | 367.4 |

Run No. 20 Date July 4, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0622 | 0722 | 0822 | 0922 | 1022 | 1122 | 1222 | 1322 |
| Position of (N. Lat. | 32°11' | 32°18' | 32°20' | 32°22' | 32°29' | 32°33' | 32°34' | 32°40' |
| Ship: (W. Long. | 77°44' | 77°37' | 77°33' | 77°35' | 77°42' | 77°47' | 77°49' | 77°55' |
| Protozoa | 56.7 | 21.8 | 8.7 | 4.4 | 4.4 | 21.8 | 17.4 | 17.4 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 4.4 | 13.1 | - | 4.4 | - | - | 4.4 | 4.4 |
| Misc. Worms | - | - | - | - | - | - | - | 4.4 |
| Copepoda | 479.6 | 309.6 | 65.4 | 82.8 | 91.6 | 61.0 | 191.8 | 109.0 |
| Ostracoda | - | - | 4.4 | 4.4 | 4.4 | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | 4.4 | 4.4 | - | - | - | - | - | - |
| Crabs | 8.7 | 4.4 | - | - | - | 8.7 | - | - |
| Misc. Crustaceans | 17.4 | - | - | - | 4.4 | - | - | - |
| Mollusca | 13.1 | - | - | - | - | - | - | 4.4 |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 8.7 | 17.4 | 30.5 | 26.2 | 17.4 | 17.4 | 8.7 | 8.7 |
| Subtotal | 593.0 | 370.7 | 109.0 | 122.2 | 122.2 | 108.9 | 222.3 | 148.3 |
| Fish Eggs | 4.4 | - | - | 34.9 | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 597.4 | 370.7 | 109.0 | 157.1 | 122.2 | 108.9 | 222.3 | 148.3 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

| Run No. 21 | Date July 4, 1954 | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 1430 | 1531 | 1632 | 1733 | 1834 | 1935 | 2036 | 2137 |
| Position of (N. Lat. | 32°46' | 32°50' | 32°54' | 33°00' | 33°05' | 33°09' | 33°15' | 33°20' |
| Ship: (W. Long. | 78°02' | 78°05' | 78°10' | 78°17' | 78°23' | 78°28' | 78°35' | 78°41' |
| Protozoa | 26.4 | 6.6 | 19.8 | 6.6 | - | - | 6.6 | - |
| Coelenterata | - | - | - | - | - | - | - | 6.6 |
| Chaetognatha | - | 6.6 | 19.8 | 6.6 | 6.6 | 13.2 | 26.4 | 33.0 |
| Misc. Worms | - | - | 6.6 | - | - | - | 6.6 | 6.6 |
| Copepoda | 336.6 | 191.4 | 382.8 | 336.6 | 92.4 | 66.0 | 165.0 | 191.4 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | 6.6 |
| Shrimp | - | - | - | - | - | 13.2 | 19.8 | 13.2 |
| Crabs | 6.6 | 6.6 | - | - | 6.6 | 6.6 | 13.2 | - |
| Misc. Crustaceans | - | - | 6.6 | 13.2 | - | 6.6 | 13.2 | 13.2 |
| Mollusca | - | - | - | 6.6 | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | 26.4 | 19.8 | 26.4 | 39.6 | 6.6 | 112.2 | 290.4 | 376.2 |
| Subtotal | 396.0 | 231.0 | 462.0 | 409.2 | 112.2 | 217.8 | 541.2 | 646.8 |
| Fish Eggs | - | - | - | 13.2 | 6.6 | - | 6.6 | - |
| Fish Larvae | - | - | - | - | - | - | - | 6.6 |
| Total | 396.0 | 231.0 | 462.0 | 422.4 | 118.8 | 217.8 | 547.8 | 653.4 |

| Run No. 22 | Date July 4-5, 1954 | | | | | | | |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 2243 | 2343 | 0043 | 0143 | 0243 | 0343 | 0443 | 0543 |
| Position of (N. Lat. | 33°26' | 33°31' | 33°32' | 33°32' | 33°33' | 33°34' | 33°34' | 33°35' |
| Ship: (W. Long. | 78°48' | 78°53' | 78°49' | 78°39' | 78°27' | 78°20' | 78°11' | 78°01' |
| Protozoa | - | - | 16.0 | 32.0 | 32.0 | 16.0 | - | - |
| Coelenterata | - | - | - | 32.0 | - | - | - | - |
| Chaetognatha | 48.0 | 16.0 | 112.0 | 224.0 | 144.0 | 48.0 | 64.0 | 32.0 |
| Misc. Worms | - | - | - | - | - | - | - | 16.0 |
| Copepoda | 704.0 | 656.0 | 736.0 | 1120.0 | 784.0 | 432.0 | 336.0 | 1584.0 |
| Ostracoda | 32.0 | - | 16.0 | - | 32.0 | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | 16.0 | 16.0 | 32.0 | 48.0 | 48.0 | 16.0 | - | 64.0 |
| Crabs | 16.0 | 16.0 | 48.0 | 80.0 | 16.0 | - | 16.0 | 128.0 |
| Misc. Crustaceans | 32.0 | 16.0 | 48.0 | 48.0 | 16.0 | 16.0 | 16.0 | 176.0 |
| Mollusca | - | - | - | 48.0 | - | - | - | 16.0 |
| Invertebrate Eggs | - | - | - | - | - | - | - | 16.0 |
| Misc. Organisms | 144.0 | 96.0 | 144.0 | 592.0 | 272.0 | 176.0 | 64.0 | 144.0 |
| Subtotal | 992.0 | 816.0 | 1152.0 | 2224.0 | 1344.0 | 704.0 | 496.0 | 2176.0 |
| Fish Eggs | - | - | - | - | 16.0 | - | 48.0 | 16.0 |
| Fish Larvae | - | - | - | 16.0 | - | - | - | 16.0 |
| Total | 992.0 | 816.0 | 1152.0 | 2240.0 | 1360.0 | 704.0 | 544.0 | 2208.0 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

| Run No. 23 | Date July 5, 1954 | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 0650 | 0750 | 0851 | 0951 | 1052 | 1152 | 1253 | 1353 |
| Position of (N. Lat. | 33°36' | 33°31' | 33°25' | 33°21' | 33°17' | 33°10' | 33°08' | 33°05' |
| Ship: (W. Long. | 77°53' | 77°47' | 77°40' | 77°35' | 77°28' | 77°22' | 77°20' | 77°15' |
| Protozoa | - | 10.0 | - | - | - | - | - | 19.9 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | - | - | - | 10.0 | 10.0 | - | - | - |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 438.7 | 99.7 | 10.0 | 69.8 | 19.9 | 59.8 | 109.7 | 29.9 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | 19.9 | - | - | - | - | - | - | - |
| Crabs | 39.9 | 10.0 | 10.0 | - | 10.0 | - | 10.0 | - |
| Misc. Crustaceans | 119.6 | 10.0 | - | - | - | - | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | 10.0 | - | - | - | - | - | - | - |
| Misc. Organisms | 59.8 | 19.9 | 29.9 | - | 10.0 | - | 10.0 | 10.0 |
| Subtotal | 687.9 | 149.6 | 49.9 | 79.8 | 49.9 | 59.8 | 129.7 | 59.8 |
| Fish Eggs | 10.0 | - | - | - | - | - | 49.8 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 697.9 | 149.6 | 49.9 | 79.8 | 49.9 | 59.8 | 179.5 | 59.8 |

| Run No. 24 | Date July 5, 1954 | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 1507 | 1606 | 1705 | 1804 | 1903 | 2002 | 2101 | 2200 |
| Position of (N. Lat. | 32°58' | 32°55' | 32°54' | 32°51' | 32°45' | 32°41' | 32°43' | 32°49' |
| Ship: (W. Long. | 77°07' | 77°02' | 77°02' | 76°59' | 76°53' | 76°47' | 76°46' | 76°43' |
| Protozoa | 30.6 | - | - | - | 12.2 | 12.2 | 6.1 | 24.4 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 6.1 | - | 6.1 | 6.1 | 6.1 | 12.2 | - | 18.3 |
| Misc. Worms | - | - | - | - | - | 6.1 | - | - |
| Copepoda | 73.3 | 134.4 | 12.2 | 85.5 | 116.1 | 177.2 | 158.9 | 12.2 |
| Ostracoda | - | - | - | - | - | 6.1 | - | 6.1 |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | - |
| Crabs | - | 6.1 | - | 12.2 | - | 12.2 | 12.2 | 6.1 |
| Misc. Crustaceans | - | 6.1 | - | - | 6.1 | 6.1 | 6.1 | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | 6.1 | - |
| Misc. Organisms | 6.1 | 12.2 | 6.1 | 18.3 | - | 12.2 | 24.4 | 36.7 |
| Subtotal | 116.1 | 158.8 | 24.4 | 122.1 | 140.5 | 244.3 | 213.8 | 103.8 |
| Fish Eggs | - | - | - | 6.1 | - | - | 18.3 | - |
| Fish Larvae | - | 6.1 | - | - | - | - | - | - |
| Total | 116.1 | 164.9 | 24.4 | 128.2 | 140.5 | 244.3 | 232.1 | 103.8 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 25 Date July 5-6, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---|
| Time (EST) | 2315 | 0018 | 0122 | 0225 | 0329 | 0432 | 0536 | |
| Position of (N. Lat. | 33°00' | 33°09' | 33°15' | 33°20' | 33°24' | 33°27' | 33°30' | |
| Ship: (W. Long. | 76°34' | 76°27' | 76°23' | 76°24' | 76°29' | 76°36' | 76°38' | |
| Protozoa | 23.5 | - | 23.5 | - | 11.7 | 64.6 | 23.5 | * |
| Coelenterata | - | - | - | - | - | - | - | |
| Chaetognatha | 5.9 | - | - | - | - | - | 11.7 | |
| Misc. Worms | - | - | - | - | - | - | - | |
| Copepoda | 199.6 | 23.5 | 41.1 | 5.9 | 41.1 | 47.0 | 58.7 | |
| Ostracoda | 5.9 | - | - | - | - | - | - | |
| Amphipoda | 5.9 | - | - | - | 5.9 | - | - | |
| Shrimp | - | - | - | - | - | - | - | |
| Crabs | 11.7 | - | - | - | - | 5.9 | - | |
| Misc. Crustaceans | - | 5.9 | 5.9 | - | 5.9 | 5.9 | - | |
| Mollusca | 5.9 | - | - | 5.9 | - | - | - | |
| Invertebrate Eggs | - | - | - | - | - | - | - | |
| Misc. Organisms | 11.7 | 5.9 | 11.7 | 11.7 | 5.9 | - | 5.9 | |
| Subtotal | 270.1 | 35.3 | 82.2 | 23.5 | 70.5 | 123.4 | 99.8 | |
| Fish Eggs | - | - | 5.9 | - | - | - | 5.9 | |
| Fish Larvae | - | - | - | - | - | - | - | |
| Total | 270.1 | 35.3 | 88.1 | 23.5 | 70.5 | 123.4 | 105.7 | |

* No sample

Run No. 26 Date July 7, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 1526 | 1628 | 1730 | 1832 | 1934 | 2036 | 2138 | 2240 |
| Position of (N. Lat. | 33°47' | 33°53' | 33°57' | 34°00' | 34°07' | 34°12' | 34°16' | 34°20' |
| Ship: (W. Long. | 77°00' | 77°07' | 77°13' | 77°19' | 77°26' | 77°26' | 77°20' | 77°12' |
| Protozoa | - | - | 6.8 | - | - | 6.8 | 6.8 | 27.4 |
| Coelenterata | - | - | - | - | - | - | - | 6.8 |
| Chaetognatha | 6.8 | - | - | 6.8 | 13.7 | 68.4 | 20.5 | 41.0 |
| Misc. Worms | - | - | - | - | 6.8 | - | - | - |
| Copepoda | 164.2 | 34.2 | 13.7 | 6.8 | 82.1 | 212.0 | 88.9 | 164.2 |
| Ostracoda | - | - | - | - | 41.0 | 34.2 | - | - |
| Amphipoda | - | - | - | - | - | 27.4 | - | - |
| Shrimp | - | - | - | - | 41.0 | 34.2 | 20.5 | 6.8 |
| Crabs | - | - | - | 6.8 | - | 6.8 | - | 6.8 |
| Misc. Crustaceans | - | - | - | - | 6.8 | 116.3 | 27.4 | 109.4 |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | 6.8 | - | - |
| Misc. Organisms | 6.8 | - | - | 27.4 | 123.1 | 157.3 | 41.0 | 68.4 |
| Subtotal | 177.8 | 34.2 | 20.5 | 47.8 | 314.5 | 670.2 | 205.1 | 430.8 |
| Fish Eggs | - | - | - | 6.8 | - | 6.8 | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 177.8 | 34.2 | 20.5 | 54.6 | 314.5 | 677.0 | 205.1 | 430.8 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

| Run No. 27 | Date July 10, 1954 | | | | | | | |
|----------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 0711 | 0812 | 0913 | 1014 | 1115 | 1216 | 1317 | 1418 |
| Position of (N. Lat. | 34°28' | 34°22' | 34°17' | 34°13' | 34°07' | 34°03' | 34°02' | 33°57' |
| Ship: (W. Long. | 76°43' | 76°38' | 76°31' | 76°27' | 76°20' | 76°14' | 76°10' | 76°05' |
| Protozoa | 8.4 | - | - | - | 59.2 | 101.4 | - | 33.8 |
| Coelenterata | - | - | - | - | - | - | - | - |
| Chaetognatha | 16.9 | 8.4 | 8.4 | 8.4 | 8.4 | - | - | - |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 211.2 | 42.2 | 67.6 | 33.8 | 312.6 | 33.8 | 160.6 | 76.0 |
| Ostracoda | 16.9 | - | - | - | - | 8.4 | - | - |
| Amphipoda | - | - | - | - | - | - | - | 8.4 |
| Shrimp | 25.4 | - | - | - | 8.4 | 8.4 | - | - |
| Crabs | 16.9 | - | 8.4 | - | 33.8 | - | 8.4 | - |
| Misc. Crustaceans | 25.4 | 16.9 | - | 16.9 | - | - | 25.4 | - |
| Mollusca | - | - | - | - | - | 8.4 | - | - |
| Invertebrate Eggs | - | - | - | - | - | 8.4 | - | - |
| Misc. Organisms | 50.7 | 16.9 | 8.4 | 33.8 | 16.9 | 33.8 | 76.0 | 25.4 |
| Subtotal | 371.8 | 84.4 | 92.8 | 92.9 | 439.3 | 202.6 | 270.4 | 143.6 |
| Fish Eggs | - | 8.4 | - | 8.4 | 16.9 | - | 8.4 | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 371.8 | 92.8 | 92.8 | 101.3 | 456.2 | 202.6 | 278.8 | 143.6 |

| Run No. 28 | Date July 10, 1954 | | | | | | | |
|----------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Time (EST) | 1530 | 1630 | 1731 | 1831 | 1932 | 2032 | 2133 | 2233 |
| Position of (N. Lat. | 33°51' | 33°51' | 33°55' | 34°00' | 34°04' | 34°08' | 34°10' | 34°12' |
| Ship: (W. Long. | 76°00' | 75°59' | 75°54' | 75°45' | 75°35' | 75°25' | 75°18' | 75°17' |
| Protozoa | 17.0 | 130.2 | 67.9 | 11.3 | 5.7 | 39.6 | 11.3 | 39.6 |
| Coelenterata | - | - | 5.7 | - | - | - | - | - |
| Chaetognatha | 17.0 | - | 11.3 | 11.3 | - | 11.3 | 11.3 | - |
| Misc. Worms | - | - | - | - | - | 5.7 | - | - |
| Copepoda | 34.0 | 73.6 | 39.6 | 45.3 | 11.3 | 50.9 | 5.7 | 22.6 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | 5.7 | - | - | - | - | - | - | - |
| Crabs | 17.0 | - | 5.7 | - | - | - | - | - |
| Misc. Crustaceans | - | - | - | - | - | 5.7 | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | 17.0 | - | - | - | - | - |
| Misc. Organisms | 11.3 | 28.3 | 28.3 | 17.0 | - | 11.3 | 17.0 | - |
| Subtotal | 102.0 | 232.1 | 175.5 | 84.9 | 17.0 | 124.5 | 45.3 | 62.2 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | 5.7 | - | - |
| Total | 102.0 | 232.1 | 175.5 | 84.9 | 17.0 | 130.2 | 45.3 | 62.2 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 29 Date July 10-11, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0006 | 0107 | 0208 | 0309 | 0410 | 0511 | 0612 | 0713 |
| Position of (N. Lat. | 34°15' | 34°20' | 34°24' | 34°26' | 34°28' | 34°29' | 34°34' | 34°36' |
| Ship: (W. Long. | 75°15' | 75°23' | 75°33' | 75°36' | 75°35' | 75°28' | 75°19' | 75°07' |
| Protozoa | 11.1 | 16.7 | 33.4 | 5.6 | 66.7 | 22.2 | 22.2 | 38.9 |
| Coelenterata | - | - | 5.6 | - | 5.6 | - | - | 5.6 |
| Chaetognatha | - | - | - | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| Misc. Worms | - | - | - | - | - | - | - | - |
| Copepoda | 5.6 | 16.7 | 16.7 | 22.2 | 55.6 | 22.2 | 44.5 | 22.2 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | 5.6 |
| Crabs | - | - | 5.6 | - | - | - | - | - |
| Misc. Crustaceans | - | 5.6 | 5.6 | - | 5.6 | 5.6 | 5.6 | - |
| Mollusca | - | - | 5.6 | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | - |
| Misc. Organisms | - | - | 5.6 | 16.7 | 11.1 | 5.6 | 5.6 | 5.6 |
| Subtotal | 16.7 | 39.0 | 78.1 | 50.1 | 150.2 | 61.2 | 83.5 | 83.5 |
| Fish Eggs | - | 5.6 | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 16.7 | 44.6 | 78.1 | 50.1 | 150.2 | 61.2 | 83.5 | 83.5 |

Run No. 30 Date July 11, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time (EST) | 0822 | 0923 | 1024 | 1125 | 1226 | 1327 | 1428 | 1529 |
| Position of (N. Lat. | 34°38' | 34°38' | 34°40' | 34°42' | 34°45' | 34°49' | 34°54' | 34°58' |
| Ship: (W. Long. | 74°54' | 74°48' | 74°48' | 74°48' | 74°52' | 74°59' | 75°02' | 75°04' |
| Protozoa | 5.9 | 17.7 | 11.8 | - | 17.7 | 17.7 | - | 41.3 |
| Coelenterata | - | 5.9 | - | - | - | - | - | 5.9 |
| Chaetognatha | - | - | - | - | 5.9 | - | - | 5.9 |
| Misc. Worms | - | - | - | - | - | - | - | 5.9 |
| Copepoda | 35.4 | 17.7 | 17.7 | 5.9 | 35.4 | 5.9 | 5.9 | 11.8 |
| Ostracoda | - | - | - | - | - | - | - | - |
| Amphipoda | - | - | - | - | - | - | - | - |
| Shrimp | - | - | - | - | - | - | - | - |
| Crabs | - | - | - | - | - | - | - | - |
| Misc. Crustaceans | - | - | - | - | - | 5.9 | - | - |
| Mollusca | - | - | - | - | - | - | - | - |
| Invertebrate Eggs | - | - | - | - | - | - | - | 5.9 |
| Misc. Organisms | 17.7 | - | 5.9 | 5.9 | - | 11.8 | 11.8 | 23.6 |
| Subtotal | 59.0 | 41.3 | 35.4 | 11.8 | 59.0 | 41.3 | 17.7 | 100.3 |
| Fish Eggs | - | - | - | - | - | - | - | - |
| Fish Larvae | - | - | - | - | - | - | - | - |
| Total | 59.0 | 41.3 | 35.4 | 11.8 | 59.0 | 41.3 | 17.7 | 100.3 |

Table 12.--Numbers of plankton organisms per cubic meter of water
(continuous plankton sampler), cont'd

Run No. 31 Date July 11, 1954

| Compartment No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---|
| Time (EST) | 1641 | 1745 | 1850 | 1954 | 2059 | 2203 | 2308 | |
| Position of (N. Lat. | 35°02' | 35°05' | 35°04' | 35°03' | 35°01' | 34°56' | 34°53' | |
| Ship: (W. Long. | 75°12' | 75°19' | 75°25' | 75°32' | 75°44' | 75°51' | 76°02' | |
| Protozoa | - | 13.2 | 79.3 | - | - | - | - | |
| Coelenterata | - | - | - | - | - | - | - | |
| Chaetognatha | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | - | 26.4 | |
| Misc. Worms | - | 13.2 | - | - | - | - | - | |
| Copepoda | 26.4 | 66.0 | 277.4 | 171.7 | 13.2 | 13.2 | 66.0 | |
| Ostracoda | - | - | 237.8 | 13.2 | 13.2 | - | - | |
| Amphipoda | - | - | - | - | - | - | - | |
| Shrimp | - | - | - | 13.2 | - | - | 13.2 | |
| Crabs | - | 13.2 | - | - | - | - | - | |
| Misc. Crustaceans | - | - | - | - | 13.2 | - | - | |
| Mollusca | - | - | - | - | - | - | - | |
| Invertebrate Eggs | 26.4 | - | - | 13.2 | - | - | - | |
| Misc. Organisms | 39.6 | 26.4 | 26.4 | 26.4 | 13.2 | 13.2 | 39.6 | |
| Subtotal | 105.6 | 145.2 | 634.1 | 250.9 | 66.0 | 26.4 | 145.2 | |
| Fish Eggs | - | - | - | - | - | - | - | |
| Fish Larvae | - | - | - | - | - | - | - | |
| Total | 105.6 | 145.2 | 634.1 | 250.9 | 66.0 | 26.4 | 145.2 | |

Table 13.--List of the species of fish in dip-net, trolling, stomach contents, and larval fish net collections (D-dip net; T-trolling; S-stomach contents; L-larval fish net)

| | |
|--|---|
| <u>Ablennes hians</u> (Valenciennes) D S | <u>Cypselurus cyanopterus</u> (Valenciennes) D |
| <u>Abudefduf saxatilis</u> (Linnaeus) D | <u>Cypselurus furcatus</u> (Mitchill) D |
| <u>Acanthurus</u> sp. S | <u>Cypselurus heterurus</u> (Rafinesque) D |
| <u>Acanthurus chirurgus</u> (Bloch) S | <u>Cypselurus heterurus</u> ? S |
| <u>Ahlia egmontis</u> (Jordan) D | <u>Dactylopterus volitans</u> (Linnaeus) D S |
| <u>Alutera</u> sp. D S | <u>Decapterus punctatus</u> (Agassiz) D S |
| <u>Alutera scripta</u> (Osbeck) S | <u>Decapterus punctatus</u> ? S |
| <u>Aluteridae</u> , unidentified S | <u>Diodon</u> sp. S |
| <u>Amanses pullus</u> (Ranzani) D S | <u>Diodon holacanthus</u> Linnaeus D S |
| <u>Argyropelecus hemigymnus</u> Cocco D | <u>Diodon hystrix</u> Linnaeus ? D |
| <u>Auxis thazard</u> (Lacepede) S | <u>Diodontidae</u> , unidentified S |
| <u>Belonidae</u> , unidentified S | <u>Elagatis bipinnulatus</u> (Quoy & Gaimard) D T |
| <u>Bramidae</u> , unidentified S | <u>Etrumeus sadina</u> (Mitchill) D S |
| <u>Canthidermis sufflamen</u> (Mitchill) D S | <u>Euleptorhamphus velox</u> Poey D |
| <u>Canthidermis sufflamen</u> ? S | <u>Euthynnus alletteratus</u> (Rafinesque) T |
| <u>Caranx</u> sp. S | <u>Euthynnus alletteratus</u> ? S |
| <u>Caranx bartholomaei</u> Cuvier D S | <u>Exocoetidae</u> , unidentified S |
| <u>Caranx bartholomaei</u> ? S | <u>Exocoetus obtusirostris</u> Günther D |
| <u>Caranx crysos</u> (Mitchill) D S | <u>Gempylus serpens</u> Cuvier D |
| <u>Caranx crysos</u> ? S | <u>Hemiramphidae</u> , unidentified S |
| <u>Caranx hippos</u> (Linnaeus) S | <u>Hemiramphus</u> sp. ? S |
| <u>Caranx latus</u> Agassiz D S | <u>Hemiramphus balao</u> Lesueur D S |
| <u>Caranx ruber</u> (Bloch) D S | <u>Hemiramphus brasiliensis</u> (Linnaeus) D |
| <u>Carcharhinus floridanus</u> | <u>Hippocampus hudsonius</u> DeKay S |
| Bigelow, Schroeder, & Springer T | <u>Hirundichthys affinis</u> (Günther) D |
| <u>Chiasmodontidae</u> , unidentified D | <u>Histrio histrio</u> (Linnaeus) D L |
| <u>Clupeidae</u> , unidentified S | <u>Holocentrus</u> sp. S |
| <u>Coryphaena hippurus</u> Linnaeus D T S | <u>Holocentrus ascensionis</u> (Osbeck) ? S |
| <u>Cypselurus</u> sp. D | <u>Holocentrus bullisi</u> Woods D |
| <u>Cypselurus comatus</u> (Mitchill) D | <u>Holocentrus rufus</u> (Walbaum) S |

Table 13. --List of the species of fish in dip-net, trolling, stomach contents, and larval fish net collections (D-dip net; T-trolling; S-stomach contents; L-larval fish net), cont'd

| | | | |
|---|-----|---|-----|
| <u>Holocentrus vexillarius</u> Poey | D | <u>Pterolamiops longimanus</u> (Poey) | T |
| <u>Holocentrus vexillarius</u> ? | S | <u>Sardinella anchovia</u> Valenciennes | S |
| <u>Hygophum reinhardtii</u> (Lütken) | D | <u>Scomberomorus cavalla</u> (Cuvier) | T |
| Istiophoridae, unidentified | D | <u>Scomberomorus maculatus</u> (Mitchill) | T |
| <u>Katsuwonus pelamis</u> (Linnaeus) | T S | Scombridae, unidentified | L S |
| <u>Kyphosus incisor</u> (Cuvier) | D | <u>Selar crumenophthalmus</u> (Bloch) | S |
| <u>Kyphosus sectatrix</u> (Linnaeus) | L | <u>Seriola dumerili</u> (Risso) | T S |
| <u>Monacanthus ciliatus</u> (Mitchill) | D S | <u>Sphaeroides</u> sp. | D S |
| <u>Monacanthus tuckeri</u> Bean | S | <u>Sphyaena barracuda</u> (Walbaum) | T |
| <u>Mugil curema</u> Valenciennes | D | <u>Stephanolepis hispidus</u> (Linnaeus) | D S |
| <u>Myctophum nitidulum</u> (Garman) | D | <u>Strongylura acus</u> (Lacepede) | D L |
| <u>Myctophum obtusirostris</u> Taning | D | <u>Strongylura ardeola</u> (Valenciennes) | D |
| <u>Oxyporhamphus micropterus</u> (Valenciennes) | D | <u>Strongylura raphidoma</u> (Ranzani) | D |
| <u>Parexocoetus brachypterus</u> (Richardson) | D | <u>Syngnathus dunckeri</u> Metzelaar | S |
| <u>Parexocoetus brachypterus</u> ? | D | <u>Syngnathus pelagicus</u> Linnaeus | D |
| <u>Prionotus</u> sp. | S | <u>Syngnathus springeri</u> Herald | D |
| <u>Prognichthys gibbifrons</u> (Valenciennes) | D S | <u>Thunnus albacares</u> (Bonmarterre) | T |
| <u>Prognichthys gibbifrons</u> ? | D | <u>Thunnus atlanticus</u> (Lesson) | T S |
| <u>Psenes cyanophrys</u> Valenciennes | D S | <u>Xanthichthys ringens</u> (Linnaeus) | D S |
| <u>Pseudopriacanthus albus</u> (Gill) | D | | |

Table 14.--Numbers and species of fish taken by trolling

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|---|----------------|---------------|----------|---------|-----|--------------------------|-------------------------|------------------|---|
| | | | N.lat. | W.long. | | | | | |
| <u>Carcharhinus</u> <u>floridanus</u> /1 | June 13 | 2230 | 26°27' | 76°44' | M | -- | 2032/2 | -- | Squid |
| <u>Pterolamiops</u> <u>longimanus</u> /1 | June 23 | 2330 | 27°40' | 79°18' | M | -- | 1800/2 | -- | -- |
| <u>Sphyraena</u> <u>barracuda</u> | June 12 | 1500 | 26°40' | 76°57' | M | II | 780 | 7.0 | none |
| " | June 18 | 1330 | 23°58' | 77°12' | M | I | 655 | 3.5 | none |
| " | June 18 | 1540 | 23°45' | 76°56' | M | II | 760 | 6.0 | none |
| " | July 13 | 0640 | 34°35' | 75°13' | F | II | 1160 | 26.5 | <u>Decapterus punctatus</u> ? (4); <u>Diodontidae</u> , unidentified (body spines); fish remains, unidentified (6) |
| " | July 13 | 0940 | 34°40' | 74°47' | F | V-VI | 1024 | 17.6 | fish remains, unidentified |
| <u>Katsuwonus</u> <u>pelamis</u> | June 22 | 1500 | 25°56.5' | 77°54' | F | II | 580 | 9.0 | <u>Caranx latus</u> (2); <u>Monacanthus</u> <u>tuckeri</u> (1); <u>Aluteridae</u> , unidentified (1); fish re- mains, unidentified (5); stomatopod (1); decapod (1) |
| " | June 22 | 1500 | 25°57' | 77°55' | M | IV | 710 | 17.0 | <u>Cypselurus heterurus</u> ? (1); <u>Caranx crysos</u> (1); <u>Diodon</u> sp. (1); <u>Hemiramphidae</u> , unidentified (2); fish re- mains, unidentified (7); amphipods (2); decapods (2) |

/1 Hook and line

/2 Total length

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|-------------------------------|----------------|---------------|----------|---------|-----|--------------------------|-------------------------|------------------|---|
| | | | N.lat. | W.Long. | | | | | |
| <u>K. pelamis</u> (cont'd) | June 22 | 1722 | 26°10' | 78°13' | F | III | 701 | 16.0 | <u>Hemiramphus balao</u> (1); <u>Prognichthys gibbifrons</u> (2); <u>Thunnus atlanticus</u> (1); <u>Caranx crysos</u> (2); <u>Amanses pullus</u> (1); <u>Diodon holacanthus</u> (10); <u>Hemiramphus</u> sp.? (2); Aluteridae, unidentified (1); fish remains, unidentified (2); crab megalops (3) |
| " | June 22 | 1723 | 26°10' | 78°13' | M | V | 706 | 17.0 | none |
| " | June 22 | 1730 | 26°11' | 78°15' | M | V | 640 | 12.0 | <u>Amanses pullus</u> (1); <u>Holocentrus</u> sp. (1); <u>Acanthurus</u> sp. (2); fish remains, unidentified (2); squid (1); stomatopods (3); crabs (6); shrimp (2); decapods (7); amphipods (4) |
| " | June 22 | 1920 | 26°18' | 78°31' | F | V | 640 | 13.0 | none |
| " | July 2 | 1107 | 31°33' | 79°42' | F | II | 575 | 8.5 | none |
| " | July 2 | 1205 | 31°31' | 79°32' | M | II | 564 | 8.0 | none |
| " | July 4 | 1252 | 32°37' | 77°51' | F | III | 645 | 13.0 | <u>Etrumeus sadina</u> (1) |

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date | | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|---------------------|---------|-------|----------|---------|-----|--------------------------|-------------------------|------------------|---|
| | (1954) | (EST) | N.lat. | W.long. | | | | | |
| <u>Euthynnus</u> | June 23 | 1205 | 27°14' | 80°03' | M | VI | 790 | 14.5 | <u>Sardinella anchovia</u> (1); fish remains, unidentified (1) |
| <u>alletteratus</u> | June 23 | 1335 | 27°25' | 80°05' | F | III | 770 | 14.0 | fish vertebrae |
| " | June 23 | 1415 | 27°30' | 80°06' | M | VI | 726 | 14.0 | <u>Sardinella anchovia</u> (1); fish remains, unidentified |
| " | June 23 | 1416 | 27°30' | 80°06' | M | V | 595 | 6.5 | none |
| " | June 23 | 1421 | 27°30' | 80°05' | M | V | 750? | 14.0 | Clupeidae, unidentified (3); Exocoetidae, unidentified |
| " | June 23 | 1445 | 27°34' | 80°04' | M | V | 720 | 13.0 | (1); fish remains, unidenti- fied (3); squid remains (2) <u>Monacanthus ciliatus</u> (1); <u>Exocoetidae</u> , unidentified (2); fish vertebrae |
| " | June 23 | 1503 | 27°36' | 80°03' | F | V | 642 | 9.5 | none |
| " | June 24 | 1455 | 28°21' | 80°17' | M | V | 660 | 10.0 | none |
| " | June 24 | 1500 | 28°21' | 80°18' | M | V | 732 | 13.0 | none |
| " | June 26 | 1425 | 30°20' | 80°30' | F | III | 613 | 9.0 | none |
| " | June 26 | 1428 | 30°20' | 80°30' | M | III | 515 | 5.0 | none |
| " | June 26 | 1431 | 30°20' | 80°30' | M | V | 662 | 12.0 | none |
| " | June 27 | 1605 | 31°01' | 80°08' | M | III | 556 | 6.5 | none |
| " | June 27 | 1605 | 31°01' | 80°08' | M | V | 621 | 8.5 | fish remains, unidentified |
| " | July 2 | 0605 | 31°39' | 80°25' | F | V | 550 | 5.5 | none |
| " | July 2 | 0846 | 31°38' | 80°03' | M | V | 605 | 8.0 | none |
| " | July 2 | 0906 | 31°38' | 80°01' | F | III | 784 | 18.0 | <u>Auxis thazard</u> (1) |
| " | July 3 | 0745 | 32°18' | 79°40' | F | III | 500 | 5.0 | squid (7) |
| " | July 3 | 1845 | 32°31' | 78°50' | F | III | 582 | 7.5 | squid (4) |
| " | July 3 | 1905 | 32°29' | 78°47' | M | V | 706 | 12.5 | none |
| " | July 5 | 0855 | 33°23' | 77°40' | F | V | 735 | 13.0 | <u>Decapterus punctatus</u> (2) |
| " | July 5 | 0905 | 33°23' | 77°38' | M | V-VI | 810 | 17.5 | fish remains, unidentified (1) |

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|-------------------------------------|----------------|---------------|----------|----------|-----|--------------------------|-------------------------|------------------|---|
| | | | N. lat. | W. long. | | | | | |
| <u>E. alletteratus</u> (cont'd) | July 5 | 1015 | 33°20' | 77°32' | F | V-VI | 780 | 15.0 | <u>Decapterus punctatus</u> (1); fish remains, unidentified (1); squid (1); oyster shells (2); unidentified worm (1) squid (2) |
| " | July 7 | 0932 | 34°15' | 76°46' | F | III | 479 | 4.0 | Clupeidae, unidentified (1) |
| " | July 7 | 0940 | 34°14' | 76°47' | M | V | 555 | 6.0 | none |
| " | July 7 | 0941 | 34°14' | 76°47' | F | III | 503 | 4.5 | none |
| " | July 10 | 1040 | 34°11' | 76°24' | F | V-VI | 510 | 5.0 | none |
| " | July 13 | 0630 | 34°35' | 75°15' | F | IV | 620 | 7.5 | fish remains, unidentified (9); squid (4) |
| " | July 13 | 0631 | 34°35' | 75°15' | F | V | 630 | 8.5 | <u>Euthynnus alletteratus</u> ? (2); <u>Stephanolepis hispidus</u> (1); Scombridae, unidentified (1); Aluteridae, unidenti- fied (3); fish remains, unidentified (21); squid (3) |
| <u>Thunnus</u> <u>atlanticus</u> | June 22 | 1650 | 26°06' | 78°08' | M | IV-V | 491 | 5.2 | <u>Selar crumenophthalmus</u> (4); <u>Caranx hippos</u> (1); <u>Diodon</u> sp. (2); Aluteridae, unidenti- fied (1); fish remains un- identified (4); octopus (1); stomatopods (23); amphipods (1); crabs (6); shrimp (2); decapods (7) |
| " | June 22 | 1715 | 26°09' | 78°12' | F | III | 477 | 5.0 | <u>Acanthurus chirurgus</u> (1); <u>Monacanthus ciliatus</u> (1); <u>Acanthurus</u> sp. (2); <u>Sphaeroides</u> sp. (1); fish remains, unidentified (1); octopus (1); stomatopod (1); decapod (1) |

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|----------------------|----------------|---------------|----------|----------|-----|--------------------------|-------------------------|------------------|--|
| | | | N. lat. | W. long. | | | | | |
| <u>T. atlanticus</u> | June 22 | 1717 | 26°09.5' | 78°12' | M | IV-V | 619 | 13.0 | none |
| " (cont'd) | June 22 | 1720 | 26°10' | 78°13' | M | IV-V | 673 | 15.0 | <u>Syngnathus dunckeri</u> (1); <u>Acanthurus</u> sp. (2); fish remains, unidentified (9); octopuses (2); squid (1); heteropod (1); stomatopods (5); decapods (21); ostracod (1); amphipod (1) |
| " | June 24 | 0545 | 28°09' | 79°21' | M | V | 505 | 5.5 | <u>Monacanthus ciliatus</u> (1); <u>Acanthurus chirurgus</u> (2); Aluteridae, unidentified (4); fish remains, un- identified (7); octopus (1); amphipod (1) |
| " | June 26 | 1820 | 30°20' | 80°01' | F | III | 432 | 3.5 | <u>Hippocampus hudsonius</u> (4); <u>Decapterus punctatus</u> (1); <u>Selar crumenophthalmus</u> (1); <u>Caranx crysos</u> ? (1); <u>Dactylopterus volitans</u> (3); <u>Sphaeroides</u> sp. (1); <u>Acanthurus</u> sp. (1); Bramidae, unidentified (6); Scombridae, unidentified (1); Aluteridae, unidentified (1); fish re- mains, unidentified (16); octopus (1); gastropod (1); stomatopods (2); decapods (3); amphipods (5) |
| " | July 3 | 1908 | 32°29' | 78°47' | M | V | 479 | 5.5 | none |

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|------------------------------------|----------------|---------------|----------|----------|-----|--------------------------|-------------------------|------------------|--|
| | | | N.lat. | W.long. | | | | | |
| <u>Thunnus</u> <u>albacares</u> | June 22 | 1515 | 25°57.5' | 77°56' | M | I | 867 | 28.6 | <u>Ablennes hians</u> (6); <u>Katsuwonus</u> <u>pellamis</u> (1); <u>Coryphaena</u> <u>hippurus</u> (1); <u>Holocentrus</u> <u>rufus</u> (1); <u>Holocentrus</u> <u>vexillarius</u> ? (1); <u>Holocentrus adscensionis</u> ? (1); <u>Diodon holacanthus</u> (2); <u>Caranx sp.</u> (1); <u>Holocentrus</u> <u>sp.</u> (1); <u>Diodon sp.</u> (14); <u>Belonidae</u> , unidentified (6); <u>Aluteridae</u> , unidentified (1); fish remains, unidentified (5); squid (8); stomatopod (1); isopod (1) |
| " | June 22 | 1600 | 26°01.5' | 78°01.5' | M | I | 809 | 23.0 | <u>Caranx crysos</u> (3); <u>Caranx</u> <u>ruber</u> (6); <u>Caranx</u> <u>bartholomaei</u> ? (1); <u>Xanthichthys ringens</u> (8); <u>Alutera scripta</u> (2); <u>Diodon</u> <u>holacanthus</u> (3); <u>Caranx sp.</u> (3); <u>Alutera sp.</u> (1); fish remains, unidentified (20); crab (1) |
| " | June 22 | 1650 | 26°06' | 78°08' | M | I | 1010 | 41.9 | <u>Caranx ruber</u> (2); <u>Canthidermis</u> <u>sufflamen</u> (1); <u>Diodon sp.</u> (6); <u>Belonidae</u> , unidentified (1); fish remains, unidenti- fied (2); cephalopod beaks; crab (1); decapods (7) |

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|----------------------|----------------|---------------|----------|---------|-----|--------------------------|-------------------------|------------------|---|
| | | | N.lat. | W.long. | | | | | |
| <u>Scomberomorus</u> | July 5 | 0850 | 33°24' | 77°40' | F | V | 900 | 12.5 | none |
| <u>cavalla</u> | July 13 | 0632 | 34°35' | 75°15' | M | VI | 808 | 7.5 | none |
| " | July 13 | 1020 | 34°41' | 74°47' | F | IV | 1080 | 16.5 | fish remains, unidentified |
| <u>Scomberomorus</u> | June 14 | 1700 | 25°51' | 77°07' | M | V | 524 | 2.5 | none |
| <u>maculatus</u> | July 2 | 0600 | 31°39' | 80°26' | F | IV | 486 | 2.0 | none |
| <u>Coryphaena</u> | June 12 | 0600 | 27°44' | 77°31' | F | II-III | 1197 | 25.0 | <u>Thunnus atlanticus</u> (1); <u>cephalopod beaks</u> (2); crab (1) |
| " | June 18 | 1550 | 23°44' | 76°54' | F | V | 735 | 13.0 | <u>Caranx bartholomaei</u> (2); fish remains, unidentified (2) |
| " | June 19 | 1125 | 23°40.5' | 76°50' | F | III-IV | 1061 | 18.0 | <u>Hemiramphus balao</u> (1); <u>Caranx</u> <u>bartholomaei</u> (4); <u>Amanes</u> <u>pullus</u> (2); <u>Sphaeroides</u> sp. (3); fish remains, unidenti- fied (9); cephalopod remains (1) |
| " | June 19 | 1135 | 23°40.5' | 76°50' | F | III | 942 | 12.0 | <u>Caranx ruber</u> (1); <u>Alutera</u> sp. (1); fish remains, unidenti- fied (9) |
| " | June 19 | 1235 | 23°40.5' | 76°50' | M | I | 1062 | 19.0 | <u>Caranx</u> sp. (1); <u>Sphaeroides</u> sp. (1) |
| " | June 23 | 0640 | 27°01' | 79°37' | F | III | 1002 | 16.0 | crabs (3) |
| " | June 24 | 1225 | 28°22' | 79°56' | F | III | 735 | 7.5 | <u>Seriola dumerilii</u> (1) |
| " | June 26 | 1210 | 30°19' | 80°48' | F | I | 515 | 2.5 | fish remains, unidentified (1); squid (2) |

/1 Hook and line

Table 14.--Numbers and species of fish taken by trolling (cont'd)

| Species | Date (1954) | Time (EST) | Location | | Sex | Stage Gonad Devel. | Fork Length (mm.) | Weight (lbs.) | Stomach Contents |
|--|----------------|---------------|----------|----------|-----|--------------------------|-------------------------|------------------|--|
| | | | N. lat. | W. long. | | | | | |
| <u>C. hippurus</u> (cont'd) | June 26 | 1900 | 30°20' | 79°55' | M | V | 795 | 10.0 | none |
| " | June 26 | 1925 | 30°21' | 79°53' | F | IV | 708 | 6.5 | <u>Canthidermis sufflamen</u> ? (2); <u>Aluteridae</u> , unidentified (2); fish remains, unidentified (4) |
| " | July 2 | 0955 | 31°35' | 79°52' | M | I | 912 | 16.5 | fish remains, unidentified (1); crabs (4) |
| " | July 3 | 1810 | 32°35' | 78°54' | F | IV | 596 | 4.5 | none |
| " | July 7 | 1021 | 34°08' | 76°48' | F | II | 636 | 5.0 | none |
| " | July 7 | 1140 | 34°00' | 76°50' | F | I | 580 | 4.5 | none |
| " | July 7 | 1142 | 34°00' | 76°50' | M | I | 501 | 2.5 | none |
| " | July 7 | 1144 | 34°00' | 76°50' | M | I | 602 | 5.0 | none |
| " | July 7 | 1146 | 34°00' | 76°50' | F | I | 551 | 3.5 | none |
| " | July 7 | 1204 | 33°58' | 76°50' | M | I-II | 890 | 15.0 | <u>Aluteridae</u> , unidentified (1); fish remains, unidentified (1); shrimp (4); crabs (7) |
| " | July 7 | 1317 | 33°50' | 76°52' | F | IV-V | 787 | 7.5 | none |
| " | July 7 | 1523 | 33°48' | 76°59' | F | III | 555 | 3.5 | none |
| " | July 7 | 1540 | 33°49' | 77°01' | F | III | 559 | 4.0 | none |
| " | July 10 | 1045 | 34°11' | 76°24' | F | IV | 547 | 3.5 | fish remains, unidentified |
| " | July 11 | 0610 | 34°34' | 75°19' | F | IV-V | 675 | 6.0 | <u>Psenes cyanophrys</u> (1); <u>Decapterus punctatus</u> (1); squid (1) |
| <u>Seriola</u> <u>dumerilii</u> | July 7 | 1900 | 34°04' | 77°22' | M | I | 930 | 27.6 | <u>Ptilinopus</u> sp. (1); squid remains |
| <u>Elegatis</u> <u>bipinnulatus</u> | June 14 | 1300 | 26°27' | 76°44' | F | IV | 680 | 7.0 | fish remains, unidentified (1) |
| " | June 22 | 1200 | 25°36' | 77°34' | M | III | 620 | 6.0 | none |

Table 15.--Numbers and species of fish taken by dip net^{/1}

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|---------------------------------|--|
| CLUPEIDAE | |
| <u>Etrumeus sadina</u> | -Reg. 14, (2) 107-109.5 mm. |
| STERNOPTYCHIDAE | |
| <u>Argyropelecus hemigymnus</u> | -Std., 6/13/54, 0800-1600, (1) 13.2 mm. |
| ECHELIDAE | |
| <u>Ahlia egmontis</u> | -Reg. 13, (1) 197 mm. |
| MYCTOPHIDAE | |
| <u>Hygophum reinhardtii</u> | -Sp. 5, (3) 17-21 mm. |
| <u>Myctophum nitidulum</u> | -Std., 6/12-13/54, 1800-0100, (5) 16.5-30 mm. Std., 6/13-14/54, 1700-0730, (3) 16-17.5 mm. TO, 23°40.5'N., 76°50'W., 6/18/54, 2000-2400, (7) 16.5-30 mm. Sp. 5, (3) 36-72 mm. Sp. 8, (18) 19-32 mm. Reg. 27, (14) 20-33 mm. Reg. 28, (10) 19-32.5 mm. Reg. 73, (6) 20-31 mm. |
| <u>Myctophum obtusirostris</u> | -Sp. 8, (1) 21 mm. |
| BELONIDAE | |
| <u>Strongylura ardeola</u> | -Std., 6/12-13/54, 1800-0100, (1) 225 mm. Std., 6/13-14/54, 1700-0730, (1) 117 mm. Std., 6/15-16/54, 2000-0100, (3) 151-256 mm. Sp. 5, (1) 135 mm. Reg. 27, (2) 181-224 mm. Reg. 49, (1) 161 mm. |
| <u>Strongylura acus</u> | -Std., 6/13/54, (1) 105 mm. Std., 6/13/54, 1630-1730, (1) 150 mm. ^{/1} Std., 6/15-16/54, 2000-0100, (1) 214 mm. |
| <u>Strongylura raphidoma</u> | -Reg. 7, (1) 202 mm. |
| <u>Ablennes hians</u> | -Reg. 7, (2) 200-233 mm. |
| HEMIRAMPHIDAE | |
| <u>Hemiramphus brasiliensis</u> | -TO, (1) 48.5 mm. Reg. 34, (6) 83.5-145 mm. Reg. 49, (4) 35-52 mm. Reg. 77, (1) 40 mm. |

^{/1} Several specimens taken by larval fish net are denoted by footnote 1

Table 15.--Numbers and species of fish taken by dip net^{/1} (cont'd)

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|------------------------------------|---|
| <u>HEMIRAMPHIDAE (cont'd)</u> | |
| <u>Hemiramphus balao</u> | -Std., 6/12-13/54, 1800-0100, (3) 41-67 mm. Std., 6/13/54, 0800-1600, (2) 26-29.5 mm. Std., 6/13-14/54, 1700-0730, (2) 37-97 mm. Std., 6/15-16/54, 2000-0100, (2) 77-94.5 mm. Sp. 8, (1) 38.5 mm. Reg. 13, (1) 86 mm. Reg. 27, (1) 36 mm. Reg. 49, (1) 70.5 mm. |
| <u>Euleptorhamphus velox</u> | -Std., 6/12-13/54, 1800-0100, (1) 203 mm. |
| <u>EXOCEOETIDAE</u> | |
| <u>Oxyporhamphus micropterus</u> | -Sp. 8, (1) 16 mm. |
| <u>Parexocoetus brachypterus</u> | -Std., 6/12-13/54, 1800-0100, (2) 27.5-98 mm. Std., 6/13-14/54, 1700-0730, (2) 22-22.5 mm. Reg. 7, (2) 54-105 mm. Reg. 13, (7) 50-100 mm. Reg. 14, (1) 29.5 mm. Reg. 19, (1) 87 mm. Reg. 27, (1) 53 mm. Reg. 28, (1) 54 mm. Reg. 33, (1) 73.5 mm. Reg. 34, (2) 34-38.5 mm. Reg. 49, (1) 32.5 mm. Reg. 55, (3) 23.5-119 mm. |
| <u>Parexocoetus brachypterus</u> ? | -Reg. 17, (1) about 9.3 mm. |
| <u>Exocoetus obtusirostris</u> | -Std., 6/12-13/54, 1800-0100, (3) 27.5-60 mm. Sp. 5, (1) 101 mm. Sp. 8, (1) 58.5 mm. |
| <u>Cypselurus cyanopterus</u> | -Std., 6/12-13/54, 1800-0100, (1) 44 mm. |
| <u>Cypselurus comatus</u> | -Std., 6/13-14/54, 1700-0730, (3) 41.5-57 mm. Reg. 7, (1) 44.5 mm. Reg. 28, (1) 61 mm. |
| <u>Cypselurus heterurus</u> | -Std., 6/12-13/54, 1800-0100, (2) 66.5-72.5 mm. Reg. 7, (2) 178-213 mm. Reg. 13, (3) 185-215 mm. Reg. 19, (3) 193-197 mm. Reg. 28, (1) 149 mm. Reg. 33, (1) 210 mm. Reg. 55, (1) 192 mm. |
| <u>Cypselurus furcatus</u> | -Std., 6/13-14/54, 1700-0730, (1) 64 mm. Std., 6/15-16/54, 2000-0100, (1) 58 mm. |
| <u>Cypselurus</u> sp. | -Std., 6/13/54, 0800-1600, (1) 10 mm. Reg. 47, (1) 8.5 mm. |

^{/1} Larval fish net

Table 15.--Numbers and species of fish taken by dip net^{/1} (cont'd)

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|---------------------------------------|---|
| EXOCOETIDAE (cont'd) | |
| <u>Prognichthys gibbifrons</u> | -Std., 6/12-13/54, 1800-0100, (4) 12-91.5 mm. Std., 6/13/54, 0800-1600, (4) 8.5-19.5 mm. Std., 6/13-14/54, 1700-0700, (1) 11.5 mm. Std., 6/14/54, 0800-1200, (1) 13 mm. TO, (1) 11.5 mm. Reg. 28, (1) 14.5 mm. Reg. 42, (2) 24.5-31.5 mm. Reg. 48, (2) 14.5-24.5 mm. Reg. 55, (2) 26-52 mm. Reg. 73, (1) 20.5 mm. Reg. 76 to 33°35'N., 77°20'W., (1) 28.5 mm. ^{/2} |
| <u>Prognichthys gibbifrons</u> ? | -Reg. 47, (1) 6.5 mm. |
| <u>Hirundichthys affinis</u> | -Std., 6/13-14/54, 1700-0730, (1) 49.5 mm. Std., 6/15-16/54, 2000-0100, (1) 56.5 mm. Reg. 17, (1) 9.5 mm. Reg. 31, (2) 9-9.5 mm. |
| HOLOCENTRIDAE | |
| <u>Holocentrus vexillarius</u> | -Sp. 5, (1) 35 mm. Sp. 9, (2) 20.5-23.5 mm. Reg. 7, (3) 18.5-20.5 mm. Reg. 28, (11) 17-26.5 mm. |
| <u>Holocentrus bullisi</u> | -Std., 6/13-14/54, 1700-0730, (11) 34.5-37.5 mm. Reg. 1, (2) 21.5-23.5 mm. Reg. 7, (1) 16.5 mm. |
| SYNGNATHIDAE | |
| <u>Syngnathus pelagicus</u> | -Special Trial Station, 30°22'N., 78°26'W., 6/10/54, 1030, (4) 98-123 mm. Std., 6/15-16/54, 2000-0100, (1) 131 mm. |
| <u>Syngnathus springeri</u> | -Reg. 33, (1) 291 mm. |
| MUGILIDAE | |
| <u>Mugil curema</u> | -Reg. 17, (1) 7.2 mm. |
| SCOMBRIDAE | |
| Unidentified | -Std., 6/13/54, 1630-1730, (1) 8 mm. ^{/1} |
| GEMPYLIDAE | |
| <u>Gempylus serpens</u> | -Std., 6/16/54, (1) 25 mm. |
| <u>Gempylus serpens</u> ^{/3} | -Std., 6/13/54, 0800-1600, (1) about 10 mm. |

/1 Larval fish net

/2 Found on deck; exact position unknown

/3 Gempylus B of Voss (1954. Bull. Mar. Sci. Gulf and Caribb., 4(2): 120-159)

Table 15.--Numbers and species of fish taken by dip net^{/1} (cont'd)

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|------------------------------|---|
| ISTIOPHORIDAE | |
| <u>Unidentified</u> | -Std., 6/13/54, 1200, (1) 10.1 mm. |
| CORYPHAENIDAE | |
| <u>Coryphaena hippurus</u> | -Std., 6/12-13/54, 1800-0100 (1) 21.5 mm. Std., 6/13/54, (1) 26.4 mm. Std., 6/14/54, 0400, (1) 172 mm. Std., 6/15-16/54, (1) 102 mm. Spc. 9, (2) 16.4-28.3 mm. Reg. 15, (1) 17.8 mm. Reg. 25, (1) 13.1 mm. Reg. 29, (2) 81-82 mm. |
| NOMEIDAE | |
| <u>Psenes cyanophrys</u> | -Reg. 16, (7) 23.5-33 mm. Reg. 27, (1) 17.5 mm. |
| CARANGIDAE | |
| <u>Elagatis bipinnulatus</u> | -Reg. 7, (1) 29 mm. Reg. 16, (1) 34.5 mm. Reg. 30, (2) 19.5-20 mm. Reg. 71, (1) 18 mm. |
| <u>Decapterus punctatus</u> | -Reg. 25, (3) 25-29.5 mm. Reg. 37, (2) 37-48.5 mm. Reg. 42, (1) 25 mm. Reg. 71, (3) 19.5-26 mm. |
| <u>Caranx crysos</u> | -Reg. 2 to Reg. 3, 27°01'N., 79°45'W., (30) 9.1-14.4 mm. Reg. 17, (1) 33 mm. Reg. 18, (1) 39 mm. Reg. 27, (1) 22.9 mm. Reg. 30, (62) 12-24 mm. Reg. 71, (53) 11-19 mm. Reg. 72, (14) 17-24.5 mm. |
| <u>Caranx ruber</u> | -Std., 6/12-13/54, 1800-0100, (16) 27.5-79.5 mm. Std., 6/13-14/54, 1700-0730, (2) 45.5-73 mm. Std., 6/14/54, 0800-1200, (4) 25.6-47.5 mm. Spc. 5, (5) 31.5-56 mm. Reg. 7, (1) 21 mm. Reg. 16, (7) 23-84.5 mm. Reg. 27, (4) 21.6-68.5 mm. Reg. 30, (1) 18.1 mm. Reg. 71, (5) 12.4-15.7 mm. |

/1 Larval fish net

Table 15.--Numbers and species of fish taken by dip net^{/1} (cont'd)

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|--------------------------------|--|
| CARANGIDAE (cont'd) | |
| <u>Caranx bartholomaei</u> | -Std., 6/12-13/54, 1800-0100, (3) 34.2-44 mm. Std., 6/13-14/54, 1700-0730, (2) 40.5-47 mm. Std., 6/14/54, 0800-1200, (3) 29.5-44.7 mm. Spc. 5, (1) 33.9 mm. Reg. 27, (1) 30.7 mm. Reg. 30, (1) 19.8 mm. |
| <u>Caranx latus</u> | -Std., 6/13/54, 0800-1600, (1) 40 mm. |
| PRIACANTHIDAE | |
| <u>Pseudopriacanthus altus</u> | -Reg. 38, (1) 12.5 mm. |
| KYPHOSIDAE | |
| <u>Kyphosus sectatrix</u> | -Std., 6/13/54, 1630-1730, (1) 34 mm. ^{/1} |
| <u>Kyphosus incisor</u> | -Std., 6/13-14/54, 1700-0730, (1) 16.5 mm. Reg. 17, (2) 9-10 mm. Reg. 71, (1) 19 mm. Reg. 72, (1) 19 mm. |
| POMACENTRIDAE | |
| <u>Abudefduf saxatilis</u> | -Reg. 16, (1) 23 mm. Reg. 27, (4) 13-20 mm. Reg. 29, (1) 12.5 mm. Reg. 30, (1) 10.5 mm. |
| DACTYLOPTERIDAE | |
| <u>Dactylopterus volitans</u> | -Reg. 42, (1) 32 mm. |
| CHIASMODONTIDAE | |
| Unidentified | -Std., 6/13/54, 0800-1600, (1) 21 mm. |
| BALISTIDAE | |
| <u>Xanthichthys ringens</u> | -Std., 6/12-13/54, 1800-0100, (2) 38-49.5 mm. Std., 6/13-14/54, 1700-0730, (2) 37-49 mm. |
| <u>Canthidermis sufflamen</u> | -Std., 6/12-13/54, 1800-0100, (1) 55 mm. Std., 6/14/54, 0800-1200, (1) 53.5 mm. Reg. 17, (1) 28 mm. Reg. 72, (1) 30 mm. Reg. 73, (1) 51.5 mm. |

^{/1} Larval fish net

Table 15.--Numbers and species of fish taken by dip net^{/1} (cont'd)

| <u>Species</u> | <u>Location of capture, number and size range (in standard length) of specimens</u> |
|-------------------------------|--|
| <u>ALUTERIDAE</u> | |
| <u>Monacanthus ciliatus</u> | -Reg. 54, (1) 15 mm. Reg. 71, (1) 24.5 mm. |
| <u>Stephanolepis hispidus</u> | -Reg. 24, (8) 14-32 mm. Reg. 25, (74) 8.5-22.5 mm. Reg. 30, (2) 13-40 mm. Reg. 31, (10) 8.5-17 mm. Reg. 32, (36) 9.5-26 mm. Reg. 33, (6) 30-40.5 mm. Reg. 37, (28) 8-50 mm. Reg. 38, (7) 6.5-21.5 mm. Reg. 48, (3) 6-11.5 mm. Reg. 49, (1) 12 mm. Reg. 54, (46) 8-45 mm. Reg. 71, (13) 12.5-34 mm. Reg. 72, (1) 55.5 mm. |
| <u>Amanses pullus</u> | -Std., 6/13-14/54, 1700-0730, (1) 46.5 mm. |
| <u>Alutera sp./4</u> | -Reg. 25, (1) 21.5 mm. |
| <u>TETRAODONTIDAE</u> | |
| <u>Sphaeroides sp.</u> | -Reg. 31, (4) 6-8 mm. |
| <u>DIODONTIDAE</u> | |
| <u>Diodon holacanthus</u> | -Std., 6/12-13/54, 1800-0100, (2) 37.5-55 mm. Std., 6/13/54, 0800-1600, (1) 38 mm. Std., 6/13-14/54, 1700-0730, (1) 40.5 mm. Sp. 5, (1) 33.5 mm. Reg. 16, (1) 33 mm. Reg. 41, (1) 48 mm. |
| <u>Diodon hystrix ?</u> | -Std., 6/13-14/54, 1700-0730, (1) 32.5 mm. |
| <u>ANTENNARIIDAE</u> | |
| <u>Histrio histrio</u> | -Special Trial Station, (19) 10.5-52 mm. Std., 6/12-13/54, 1800-0100, (12) 11-21 mm. Std., 6/13/54, 0800-1600, (5) 11.5-15.5 mm. Std., 6/13/54, 1630-1730, (1) 13.5 mm. ^{/1} Std., 6/13-14/54, 1700-0730, (6) 11.5-28.5 mm Sp. 5, (7) 13-17 mm. Reg. 16, (1) 14 mm. Reg. 17, (1) 14.5 mm. Reg. 27, (8) 9.5-18 mm. Reg. 30, (1) 25.5 mm. Reg. 48, (1) 21 mm. |

^{/1} Larval fish net

^{/4} Alutera punctata Agassiz or A. schoepfii (Walbaum)

Table 16.--Record of drift bottles released and recovered

| Sta. | Released | | | | Recovered | | | |
|------|------------|-----------|-----------|-------------|------------|-----------|---------------|-------------|
| | Bottle No. | N. Lat. | W. Long. | (1954) Date | N. Lat. | W. Long. | Date | Days Adrift |
| 3 | - | 27° 00' | 80° 03.5' | June 23 | No returns | - | - | - |
| 4 | - | 27° 20' | 80° 03.5' | June 23 | " " | - | - | - |
| 5 | - | 27° 40' | 80° 03.5' | June 23 | " " | - | - | - |
| 10 | - | 28° 20' | 80° 10' | June 24 | " " | - | - | - |
| 11 | 14243 | 28° 20' | 80° 33' | June 24 | 32° 17.6' | 64° 45' | Mar. 19, 1955 | 268 |
| 12 | - | 28° 41' | 80° 25' | June 24 | No returns | - | - | - |
| 13 | 14258 | 29° 00' | 80° 32' | June 24 | 38° 40' | 27° 25' | Feb. 6, 1955 | 227 |
| 19 | - | 29° 40' | 80° 22.5' | June 25 | No returns | - | - | - |
| 20 | - | 29° 40' | 80° 45' | June 26 | " " | - | - | - |
| 21 | - | 29° 40' | 81° 08' | June 26 | " " | - | - | - |
| 22 | - | 30° 01' | 81° 14' | June 26 | " " | - | - | - |
| 23 | - | 30° 20' | 81° 20' | June 26 | " " | - | - | - |
| 24 | - | 30° 20' | 80° 58' | June 26 | " " | - | - | - |
| 25 | - | 30° 20' | 80° 35.5' | June 26 | " " | - | - | - |
| 32 | - | 31° 00' | 80° 23' | June 27 | " " | - | - | - |
| 33 | - | 31° 00' | 80° 46.5' | June 27 | " " | - | - | - |
| 34 | - | 31° 00' | 81° 08.5' | June 27 | " " | - | - | - |
| 35 | - | 31° 21' | 80° 53' | July 2 | " " | - | - | - |
| 36 | - | 31° 41.5' | 80° 36.5' | July 2 | " " | - | - | - |
| 37 | - | 31° 38.5' | 80° 15' | July 2 | " " | - | - | - |
| 38 | - | 31° 35.5' | 79° 51.5' | July 2 | " " | - | - | - |
| 43 | - | 32° 12' | 79° 33' | July 3 | " " | - | - | - |
| 44 | - | 32° 26' | 79° 48' | July 3 | " " | - | - | - |
| 45 | - | 32° 40' | 79° 32.5' | July 3 | " " | - | - | - |
| 46 | - | 32° 54.5' | 79° 16.5' | July 3 | " " | - | - | - |
| 47 | - | 32° 40' | 79° 00' | July 3 | " " | - | - | - |
| 54 | - | 33° 03' | 78° 21' | July 4 | " " | - | - | - |
| 55 | - | 33° 17.5' | 78° 38' | July 4 | " " | - | - | - |
| 56 | 14425 | 33° 32.5' | 78° 54.5' | July 4 | 33° 53.5' | 78° 02' | July 14, 1954 | 10 |
| 56 | 14426 | 33° 32.5' | 78° 54.5' | July 4 | 33° 53.5' | 78° 02' | July 14, 1954 | 10 |
| 56 | 14427 | 33° 32.5' | 78° 54.5' | July 4 | 33° 53.5' | 78° 02' | July 14, 1954 | 10 |
| 56 | 14430 | 33° 32.5' | 78° 54.5' | July 4 | 33° 53.5' | 78° 02' | July 15, 1954 | 11 |
| 56 | 14432 | 33° 32.5' | 78° 54.5' | July 4 | 33° 52' | 78° 30.5' | July 12, 1954 | 8 |
| 56 | 14435 | 33° 32.5' | 78° 54.5' | July 4 | 33° 54.7' | 78° 08' | July 15, 1954 | 11 |
| 56 | 14436 | 33° 32.5' | 78° 54.5' | July 4 | 33° 49' | 78° 40' | July 14, 1954 | 10 |
| 57 | - | 33° 34' | 78° 24' | July 5 | No returns | - | - | - |
| 58 | - | 33° 36.5' | 77° 54.5' | July 5 | " " | - | - | - |
| 59 | - | 33° 22' | 77° 38' | July 5 | " " | - | - | - |
| 66 | - | 33° 57' | 77° 13' | July 7 | " " | - | - | - |
| 67 | - | 34° 11' | 77° 29.5' | July 7 | " " | - | - | - |
| 68 | - | 34° 21' | 77° 09' | July 7 | " " | - | - | - |
| 69 | - | 34° 32' | 76° 49' | July 10 | " " | - | - | - |
| 70 | - | 34° 18.5' | 76° 32' | July 10 | " " | - | - | - |
| 78 | - | 35° 06.5' | 75° 20.5' | July 11 | " " | - | - | - |
| 77 | - | 35° 01' | 75° 45' | July 11 | " " | - | - | - |
| 76 | - | 34° 53' | 76° 09.5 | July 12 | " " | - | - | - |

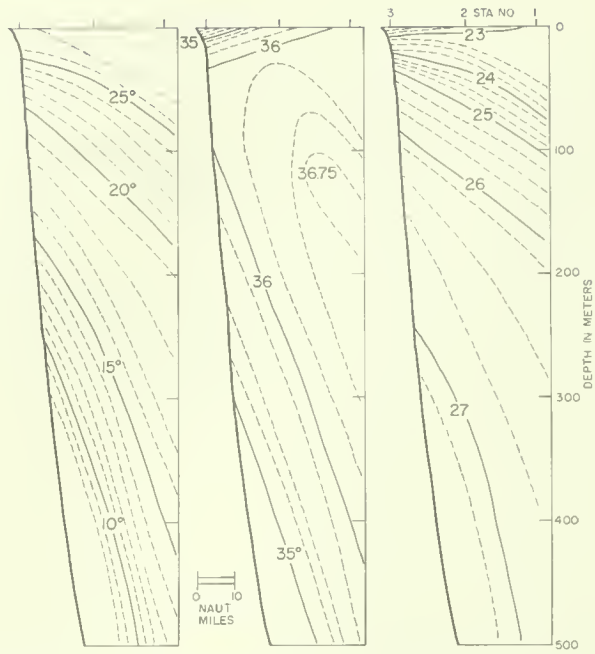


Figure 5.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 1, 2, and 3 (Jupiter Section).

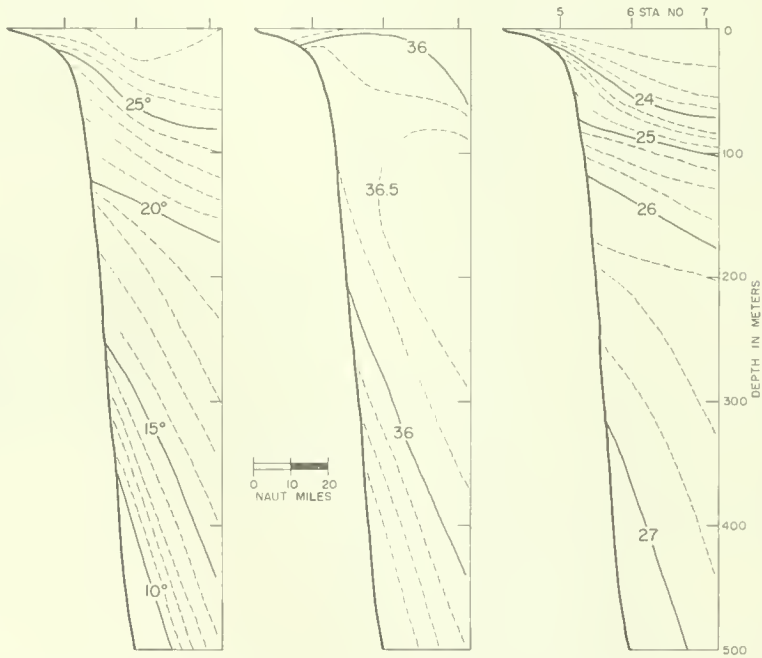


Figure 6.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 5, 6, and 7 (Vero Section).

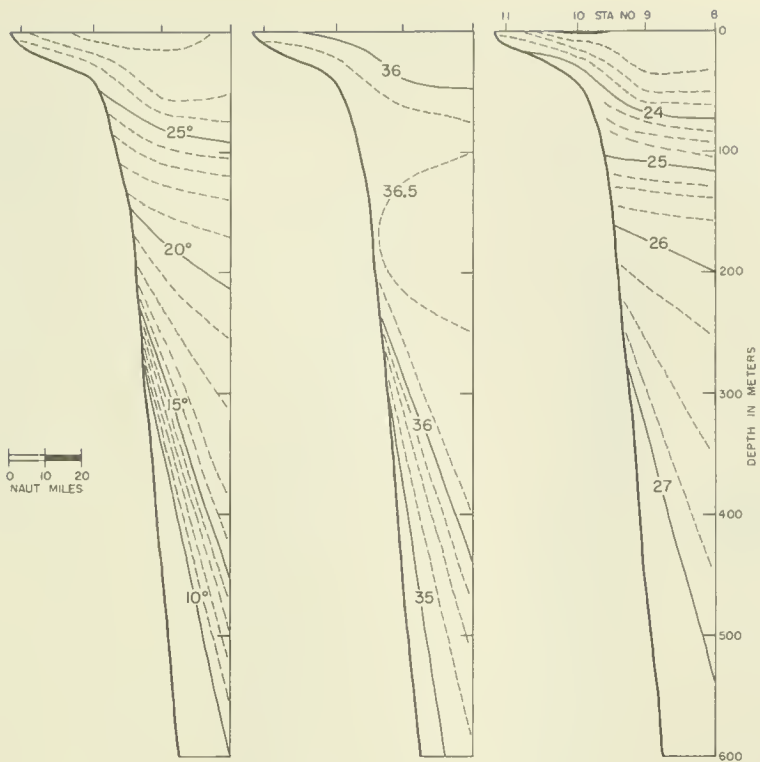


Figure 7.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 8, 9, 10, and 11 (Canaveral Section).

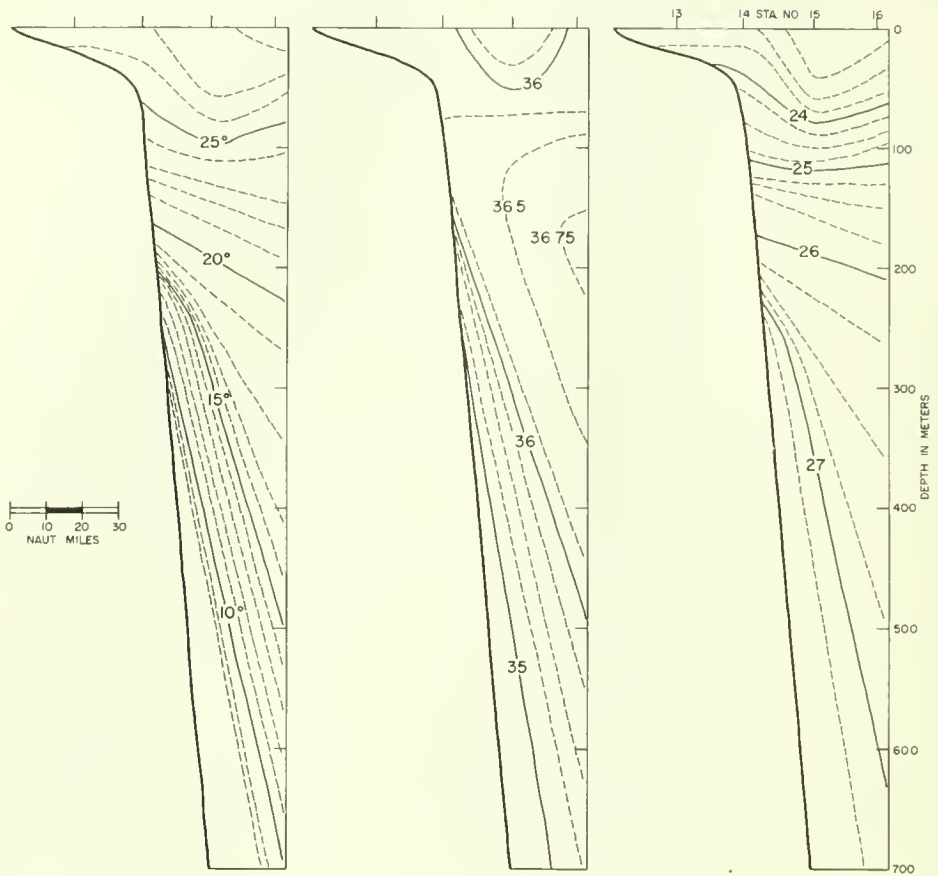


Figure 8.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 13, 14, 15, and 16 (Ponce de Leon Section).

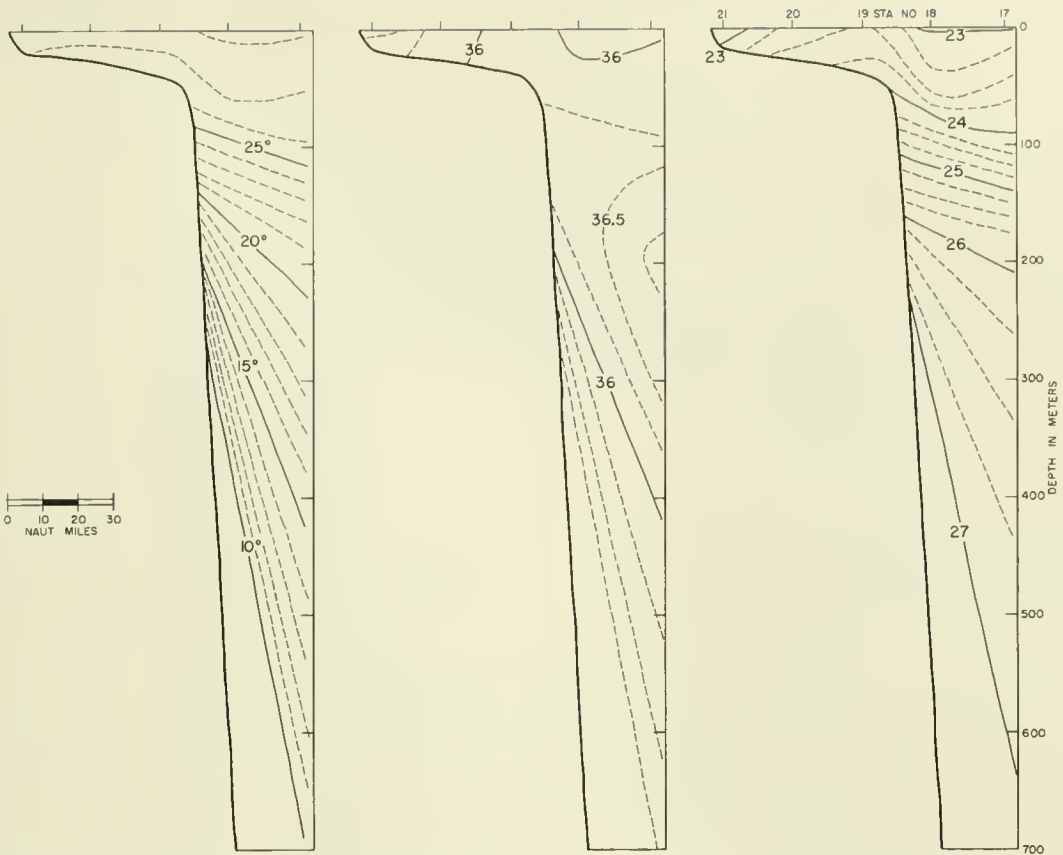


Figure 9.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 17, 18, 19, 20, and 21 (Matanzas Section).

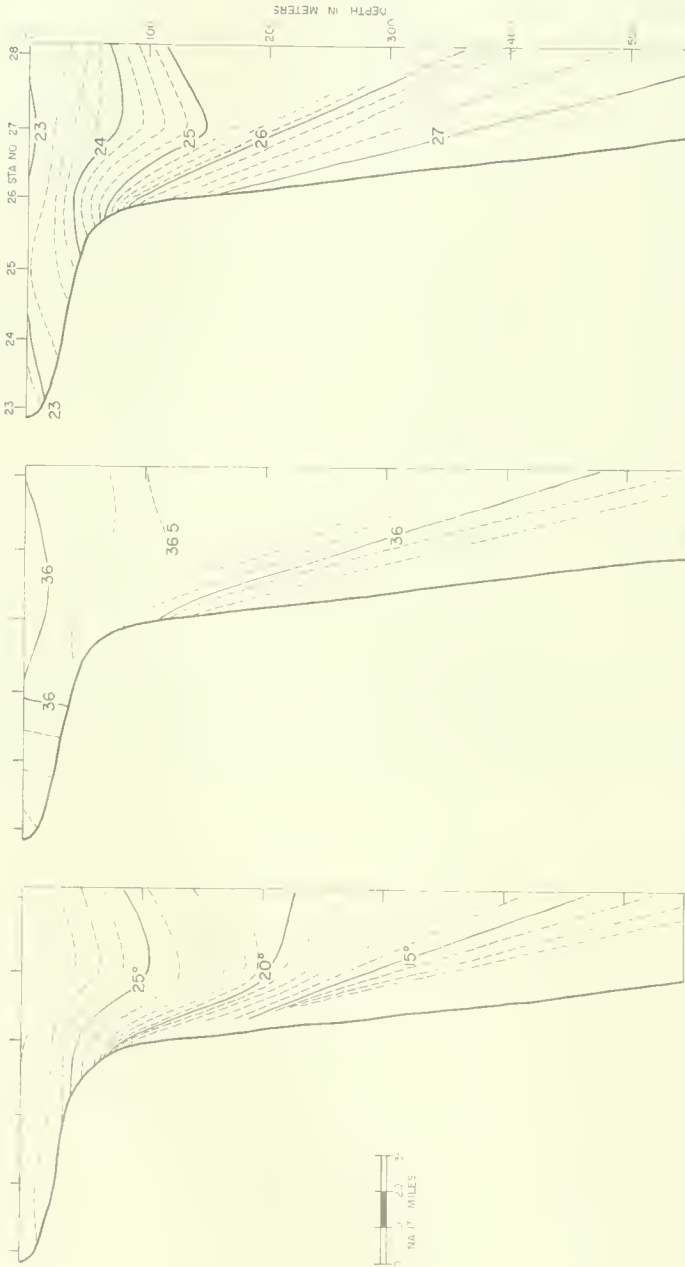


Figure 10.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 23, 24, 25, 26, 27, and 28 (Jacksonville Section).

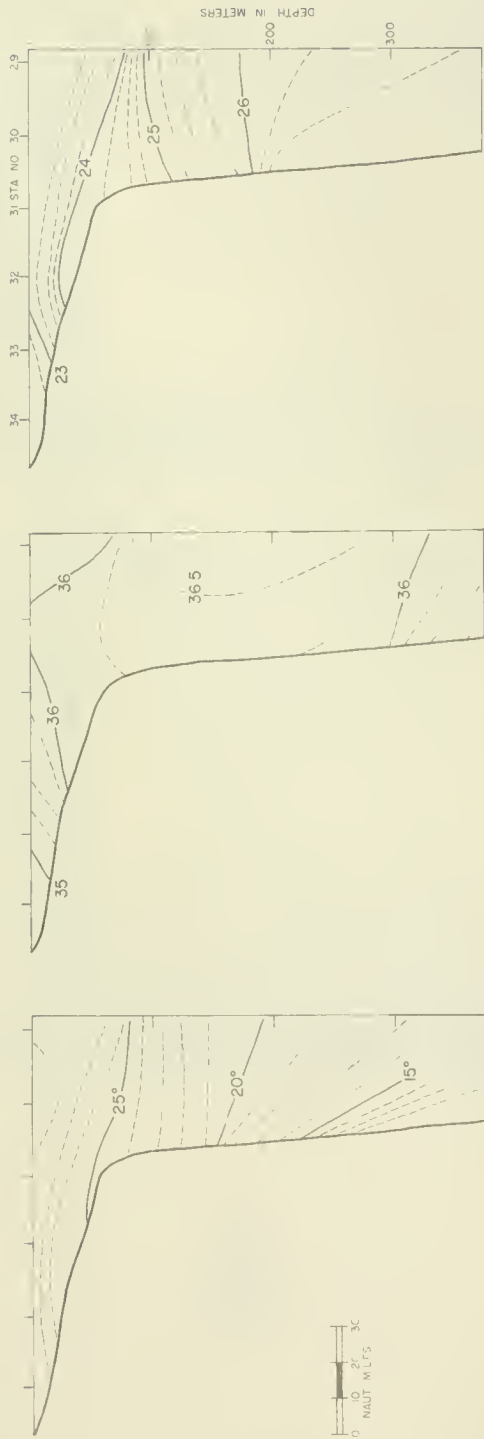


Figure 11.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 29, 30, 31, 32, 33, and 34 (Brunswick Section).

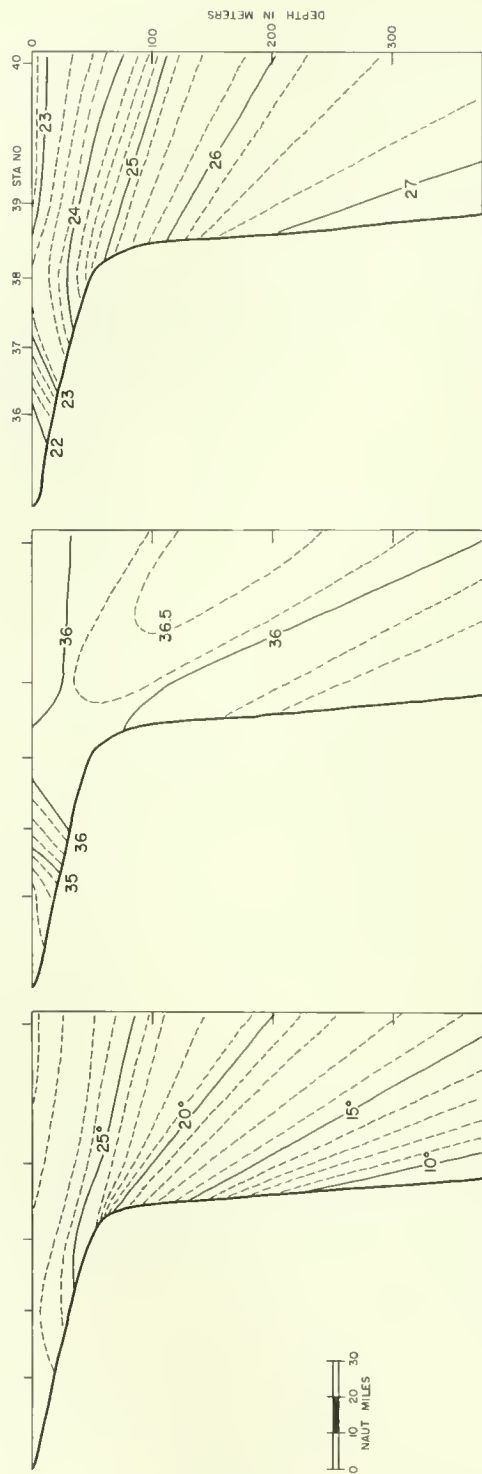


Figure 12.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 36, 37, 38, 39, and 40 (Savannah Section).

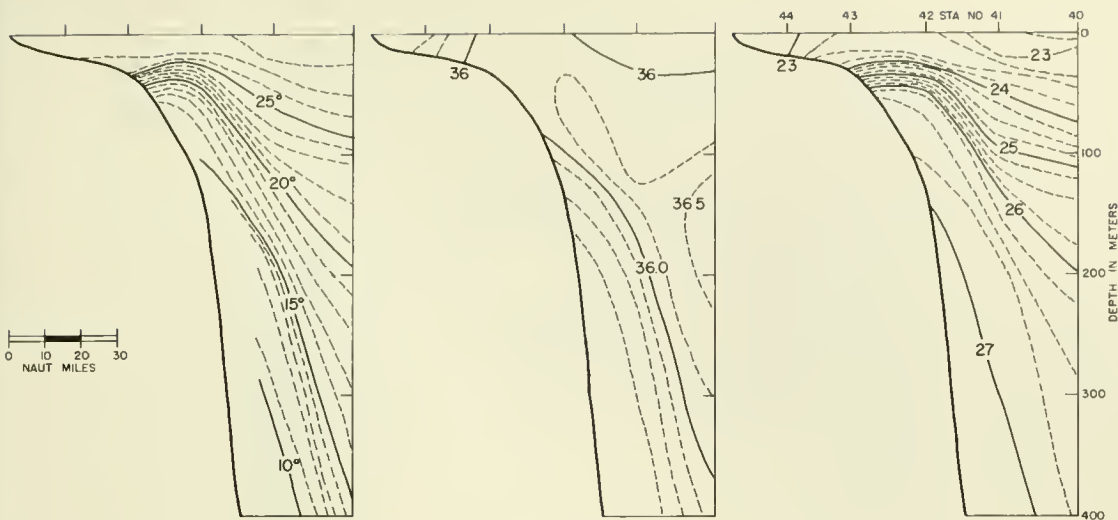


Figure 13.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 40, 41, 42, 43, and 44 (Charleston Section).

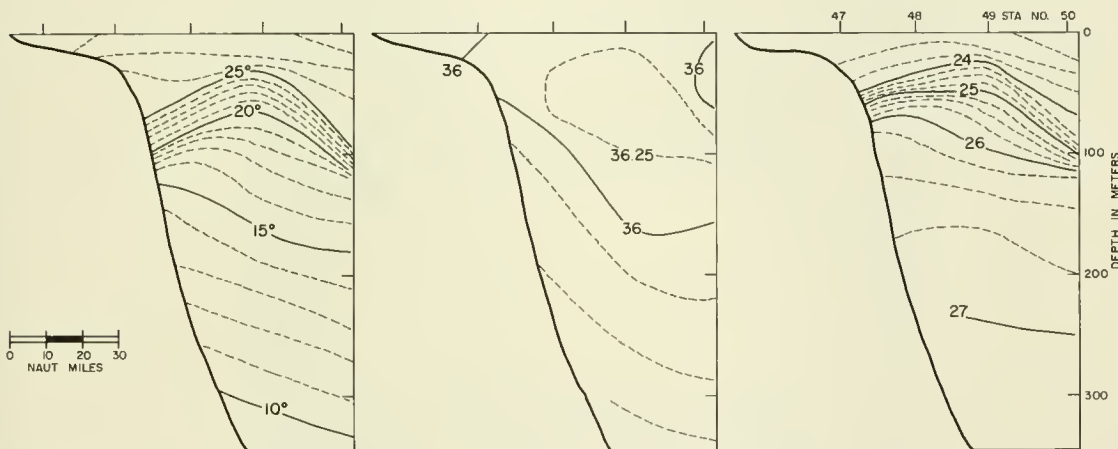


Figure 14.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 47, 48, 49, and 50 (Cape Romain Section).

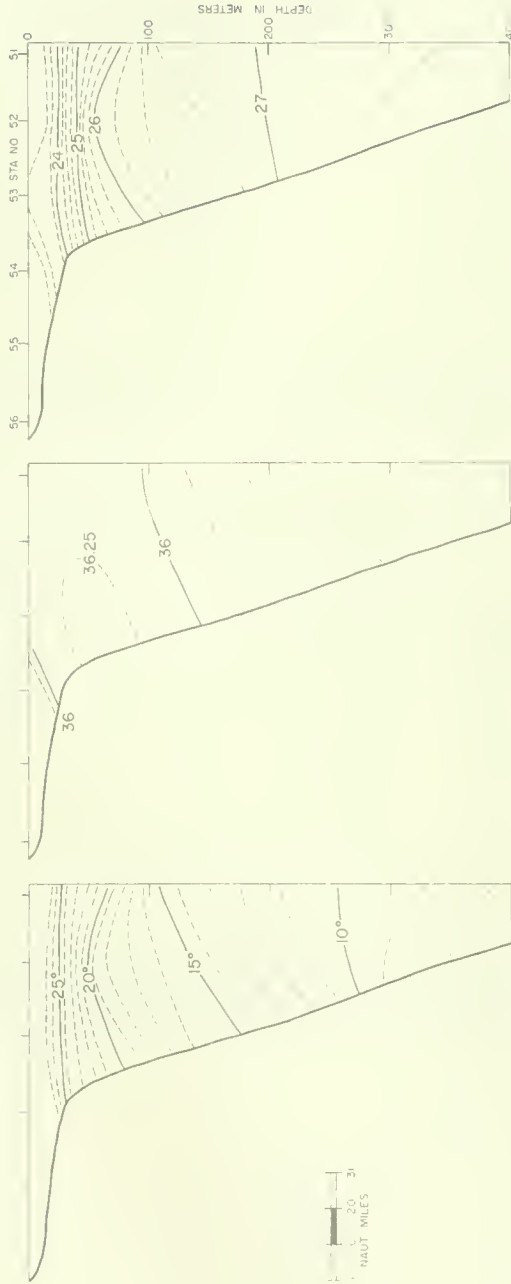


Figure 15.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 51, 52, 53, 54, 55, and 56 (Long Bay Section).



Figure 16.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 58, 59, 60, 61, and 62 (Cape Fear Section).

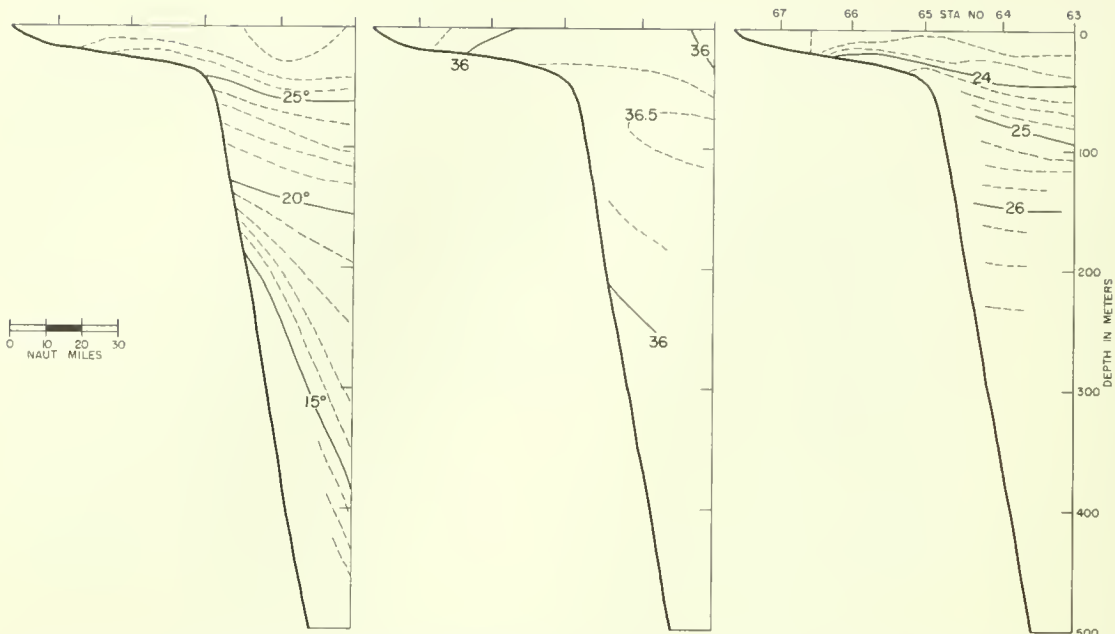


Figure 17.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 63, 64, 65, 66, and 67 (Onslow Bay Section).

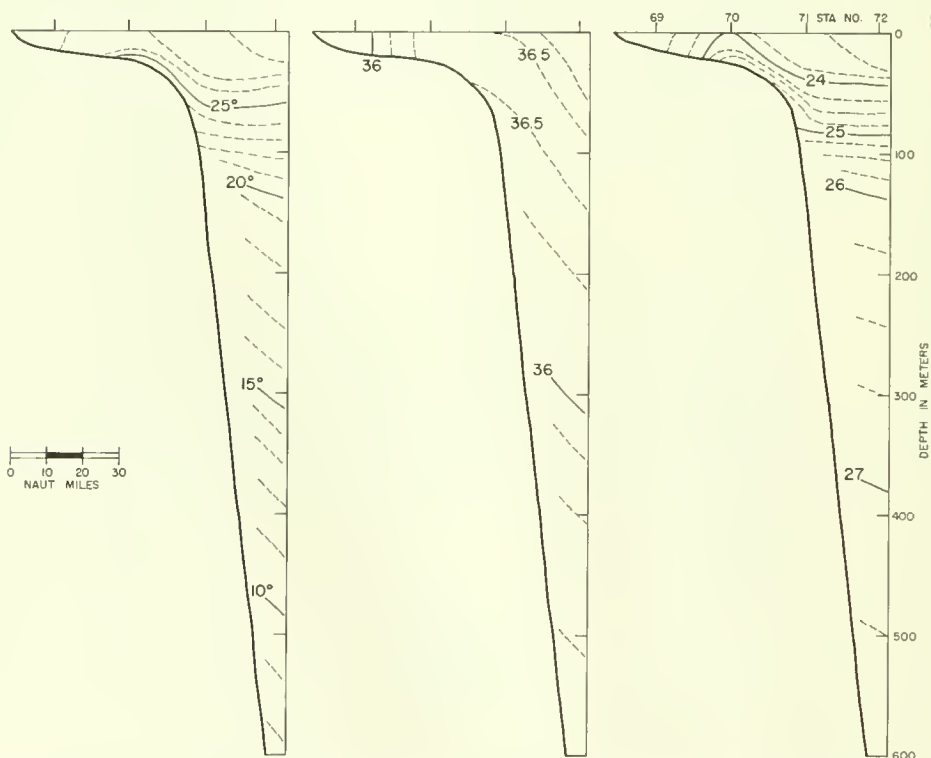


Figure 18.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 69, 70, 71, and 72 (Cape Lookout Section).

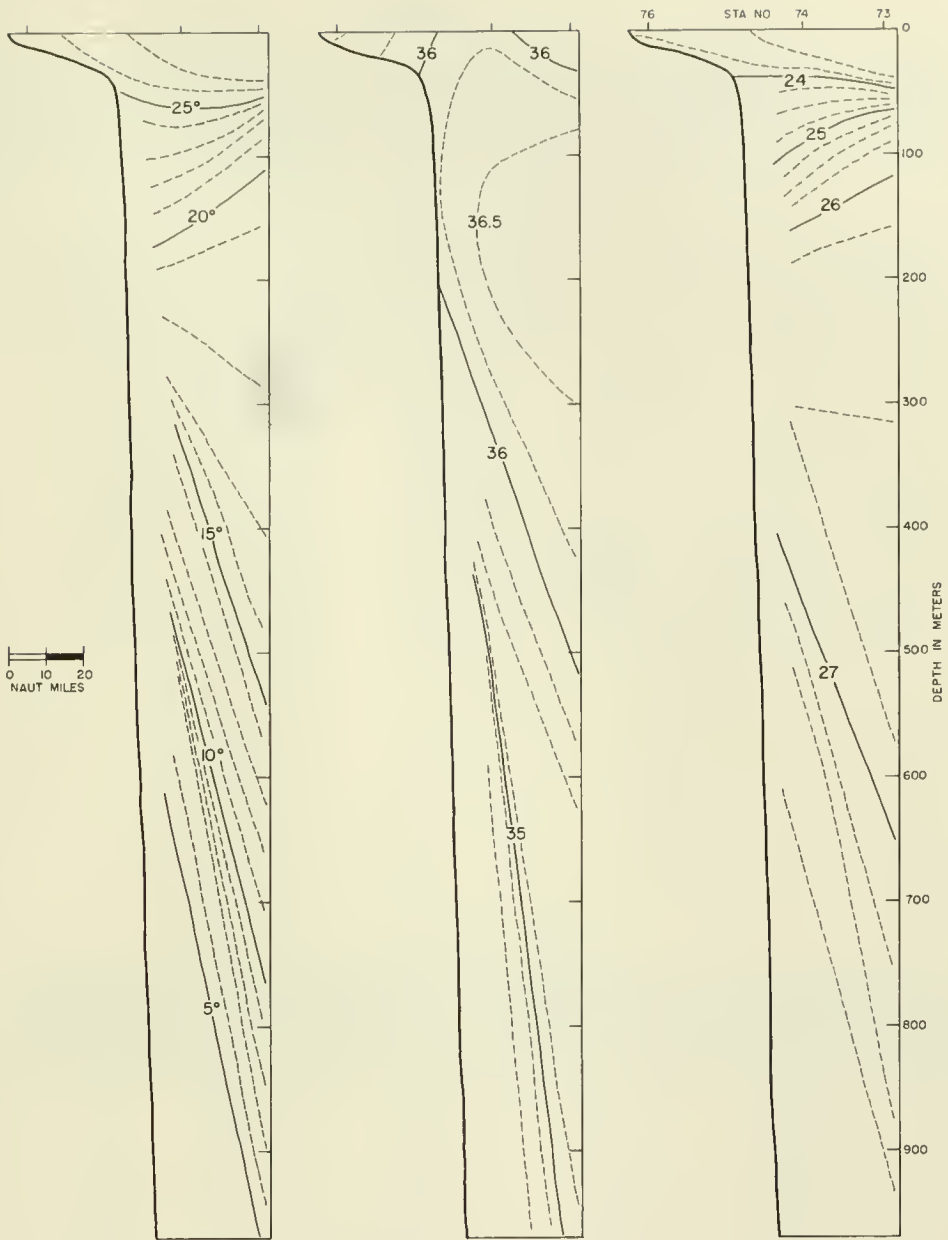


Figure 19.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 73, 74, and 76 (Raleigh Bay Section).

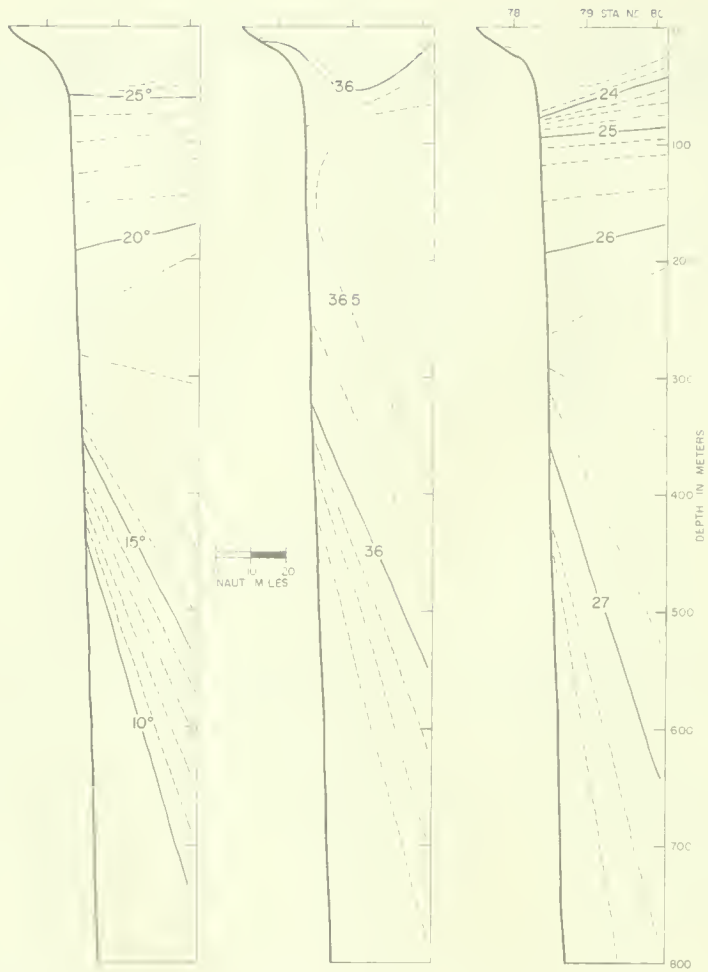


Figure 20.--Distribution of temperature ($^{\circ}\text{C}$), salinity (‰), and density (σ_t) across section of stations 78, 79, and 80 (Hatteras Section).

STATION 1

DATE June 23, 1954 LAT. 27°00'N. LONG. 79°18'W. TIME 08
 DEPTH 636 WIND 2, 04 BAR. 18 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84 % WEATHER 01 CLOUDS: type 5, amt. 2 SEA: dir. -, amt. 1
 SWELL: dir. 15, amt. 2 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.00 | 36.02 | 23.18 | 4.64 |
| 10 | 27.98 | 36.08 | 23.23 | 4.58 |
| 20 | 27.90 | 36.03 | 23.22 | 4.58 |
| 50 | 27.69 | 36.00 | 23.27 | 4.61 |
| 100 | 23.74 | 36.55 | 24.91 | 3.90 |
| 150 | 21.23 | 36.78 | 25.80 | 4.09 |
| 200 | 18.79 | 36.63 | 26.34 | 4.19 |
| 300 | 17.50 | 36.47 | 26.54 | 4.32 |
| 400 | 15.04 | 36.01 | 26.76 | 3.47 |
| 500 | 13.02 | 35.68 | 26.93 | 3.12 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.00 | 36.02 | 23.18 | 4.64 |
| 10 | 27.98 | 36.08 | 23.23 | 4.58 |
| 20 | 27.90 | 36.03 | 23.22 | 4.58 |
| 30 | 27.83 | 36.02 | 23.24 | 4.59 |
| 50 | 27.69 | 36.00 | 23.27 | 4.61 |
| 75 | 25.54 | 36.32 | 24.19 | 4.14 |
| 100 | 23.74 | 36.55 | 24.91 | 3.90 |
| 150 | 21.23 | 36.78 | 25.80 | 4.09 |
| 200 | 18.79 | 36.63 | 26.34 | 4.19 |
| 250 | 18.29 | 36.59 | 26.43 | 4.26 |
| 300 | 17.50 | 36.47 | 26.54 | 4.32 |
| 400 | 15.04 | 36.01 | 26.76 | 3.47 |
| 500 | 13.02 | 35.68 | 26.93 | 3.12 |

STATION 1

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | 0.4 | 0.5 | 0.8 | 0.9 |
| 10 | 1.2 | 1.3 | 0.0 | 0.1 | 0.8 |
| 20 | 1.2 | - | 0.0 | 0.0 | 0.8 |
| 50 | 1.4 | 1.2 | 2.0 | - | 0.8 |
| 100 | 1.7 | - | 2.0 | 0.7 | 0.2 |
| 150 | 1.3 | - | 1.0 | 1.5 | 1.2 |
| 200 | - | 1.1 | 3.5 | - | 0.6 |
| 300 | - | - | 2.0 | 0.4 | 0.4 |
| 400 | 2.4 | 1.1 | 3.5 | 0.9 | 0.6 |
| 500 | 2.1 | 1.2 | 1.0 | 0.0 | 1.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | 0.4 | 0.5 | 0.8 | 0.9 |
| 10 | 1.2 | 1.3 | 0.0 | 0.1 | 0.8 |
| 20 | 1.2 | 1.3 | 0.0 | 0.0 | 0.8 |
| 30 | 1.3 | 1.2 | 0.5 | - | 0.8 |
| 50 | 1.4 | 1.2 | 2.0 | - | 0.8 |
| 75 | 1.6 | 1.2 | 2.0 | - | 0.5 |
| 100 | 1.7 | 1.2 | 2.0 | 0.7 | 0.2 |
| 150 | 1.3 | 1.1 | 1.0 | 1.5 | 1.2 |
| 200 | 1.5 | 1.1 | 3.5 | 1.1 | 0.6 |
| 250 | 1.7 | 1.1 | 3.0 | 0.7 | 0.5 |
| 300 | 1.9 | 1.1 | 2.0 | 0.4 | 0.4 |
| 400 | 2.4 | 1.1 | 3.5 | 0.9 | 0.6 |
| 500 | 2.1 | 1.2 | 1.0 | 0.0 | 1.4 |

STATION 2

DATE June 23, 1954 LAT. 27°01'N. LONG. 79°40'W. TIME 12
 DEPTH 530 WIND -, - BAR. 18 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 87% WEATHER 01 CLOUDS: type 5, amt. 2 SEA: dir. -, amt. 1
 SWELL: dir. 36, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.99 | 35.66 | 22.92 | 4.57 |
| 10 | 28.07 | 35.89 | 23.06 | 4.57 |
| 20 | 27.52 | 36.13 | 23.42 | 4.70 |
| 50 | 24.52 | 36.34 | 24.52 | - |
| 100 | 20.65 | 36.38 | 25.66 | 4.73 |
| 150 | 18.41 | 36.43 | 26.28 | 3.32 |
| 200 | 16.84 | 36.25 | 26.53 | 3.47 |
| 300 | 12.69 | 35.63 | 26.96 | 3.04 |
| 400 | 7.97 | 35.04 | 27.33 | 2.97 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.99 | 35.66 | 22.92 | 4.57 |
| 10 | 28.07 | 35.89 | 23.06 | 4.57 |
| 20 | 27.52 | 36.13 | 23.42 | 4.70 |
| 30 | 26.46 | 36.22 | 23.83 | 4.70 |
| 50 | 24.52 | 36.34 | 24.52 | 4.71 |
| 75 | 22.38 | 36.36 | 25.16 | 4.72 |
| 100 | 20.65 | 36.38 | 25.66 | 4.73 |
| 150 | 18.41 | 36.43 | 26.28 | 3.32 |
| 200 | 16.84 | 36.25 | 26.53 | 3.47 |
| 250 | 14.84 | 35.94 | 26.75 | 3.21 |
| 300 | 12.69 | 35.63 | 26.96 | 3.04 |
| 400 | 7.97 | 35.04 | 27.33 | 2.97 |

STATION 2

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | 0.5 | <0.5 | 1.4 | 2.1 |
| 10 | 1.4 | 1.0 | 1.0 | 0.7 | 0.8 |
| 20 | - | 1.0 | 0.0 | 0.2 | 1.8 |
| 50 | - | 0.4 | 0.5 | 0.0 | 1.8 |
| 100 | 2.0 | 1.2 | - | 0.0 | 1.7 |
| 150 | 2.0 | - | 5.0 | 0.6 | - |
| 200 | 2.0 | 1.0 | 3.5 | 0.2 | 1.5 |
| 300 | 1.6 | 1.7 | 7.5 | 0.0 | 1.0 |
| 400 | 3.1 | - | 2.5 | 0.0 | 1.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | 0.5 | <0.5 | 1.4 | 2.1 |
| 10 | 1.4 | 1.0 | 1.0 | 0.7 | 0.8 |
| 20 | - | 1.0 | 0.0 | 0.2 | 1.8 |
| 30 | - | 0.8 | <0.5 | 0.1 | 1.8 |
| 50 | - | 0.4 | 0.5 | 0.0 | 1.8 |
| 75 | - | 0.8 | 2.0 | 0.0 | 1.8 |
| 100 | 2.0 | 1.2 | 3.0 | 0.0 | 1.7 |
| 150 | 2.0 | 1.1 | 5.0 | 0.6 | 1.6 |
| 200 | 2.0 | 1.0 | 3.5 | 0.2 | 1.5 |
| 250 | 1.8 | 1.4 | 5.5 | 0.1 | 1.3 |
| 300 | 1.6 | 1.7 | 7.5 | 0.0 | 1.0 |
| 400 | 3.1 | - | 2.5 | 0.0 | 1.8 |

STATION 3

DATE June 23, 1954 LAT. 27°00'N. LONG. 80°04'W. TIME 13
 DEPTH 11 WIND 4, 36 BAR. 19 AIR TEMP: dry 26.7°C, wet 25.6°C
 HUMIDITY 91% WEATHER 02 CLOUDS: type 8, amt. 4 SEA: dir. 36, amt. 1
 SWELL: dir. 36, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.38 | 33.97 | 22.16 | 4.79 |
| 10 | 26.05 | 35.29 | 23.26 | 4.75 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.38 | 33.97 | 22.16 | 4.79 |
| 10 | 26.05 | 35.29 | 23.26 | 4.75 |

STATION 3

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.8 | - | 0.5 | 0.9 | 1.4 |
| 10 | 0.7 | 0.4 | <0.5 | 0.5 | 0.7 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.8 | - | 0.5 | 0.9 | 1.4 |
| 10 | 0.7 | 0.4 | <0.5 | 0.5 | 0.7 |

STATION 4

DATE June 23, 1954 LAT. 27°20'N. LONG. 80°04'W. TIME 18
 DEPTH 20 WIND 1, 16 BAR. 19 AIR TEMP: dry 28.9°C, wet 26.1°C
 HUMIDITY 80% WEATHER 03 CLOUDS: type 4, amt. 7 SEA: dir. 00, amt. 0
 SWELL: dir. 02, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.10 | 36.03 | 23.48 | 4.64 |
| 10 | 26.02 | 35.75 | 23.61 | 4.61 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.10 | 36.03 | 23.48 | 4.64 |
| 10 | 26.02 | 35.75 | 23.61 | 4.61 |

STATION 4

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 1.0 | 1.0 | 1.1 | 1.8 |
| 10 | 1.1 | - | <0.5 | 1.9 | 0.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 1.0 | 1.0 | 1.1 | 1.8 |
| 10 | 1.1 | - | <0.5 | 1.9 | 0.9 |

STATION 5

DATE June 23, 1954 LAT. 27°40'N. LONG. 80°04'W. TIME 20
 DEPTH 23 WIND 3, 17 BAR. 18 AIR TEMP: dry 27.8°C, wet 26.7°C
 HUMIDITY 92% WEATHER 63 CLOUDS: type 8, amt. 8 SEA: dir. 17, amt. 1
 SWELL: dir. 02, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.24 | 35.54 | 23.07 | 4.72 |
| 10 | 26.85 | 35.98 | 23.52 | 4.64 |
| 20 | 24.49 | 36.36 | 24.54 | 4.86 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.24 | 35.54 | 23.07 | 4.72 |
| 10 | 26.85 | 35.98 | 23.52 | 4.64 |
| 20 | 24.49 | 36.36 | 24.54 | 4.86 |

STATION 5

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | - | 0.5 | 0.0 | 0.7 |
| 10 | - | 1.1 | <0.5 | 0.8 | <0.1 |
| 20 | 1.2 | 0.5 | 0.5 | 0.6 | 0.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | - | 0.5 | 0.0 | 0.7 |
| 10 | 1.0 | 1.1 | <0.5 | 0.8 | <0.1 |
| 20 | 1.2 | 0.5 | 0.5 | 0.6 | 0.6 |

STATION 6

DATE June 23, 1954 LAT. 27°39'N. LONG. 79°42'W. TIME 24
 DEPTH 502 WIND 4, 16 BAR. 18 AIR TEMP: dry 26.7°C, wet 25.0°C
 HUMIDITY 87% WEATHER 02 CLOUDS: type 6, amt. 8 SEA: dir. 17, amt. 1
 SWELL: dir. 02, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.37 | 35.93 | 22.99 | 4.42 |
| 10 | 28.29 | 36.08 | 23.13 | 4.63 |
| 19 | 28.15 | 36.12 | 23.21 | 4.66 |
| 49 | 26.15 | 36.26 | 23.96 | 4.74 |
| 98 | 22.21 | 36.45 | 25.28 | 4.32 |
| 147 | 19.64 | 36.58 | 26.08 | 3.56 |
| 197 | 17.47 | 36.31 | 26.42 | 3.61 |
| 296 | 14.95 | 35.94 | 26.72 | 3.16 |
| 396 | 10.60 | 35.30 | 27.10 | 3.00 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.37 | 35.93 | 22.99 | 4.42 |
| 10 | 28.29 | 36.08 | 23.13 | 4.63 |
| 20 | 28.09 | 36.12 | 23.23 | 4.67 |
| 30 | 27.45 | 36.17 | 23.47 | 4.72 |
| 50 | 26.06 | 36.26 | 23.99 | 4.73 |
| 75 | 23.89 | 36.37 | 24.73 | 4.56 |
| 100 | 22.10 | 36.46 | 25.32 | 4.27 |
| 150 | 19.49 | 36.56 | 26.10 | 3.57 |
| 200 | 17.42 | 36.30 | 26.43 | 3.59 |
| 250 | 16.34 | 36.14 | 26.56 | 3.33 |
| 300 | 14.81 | 35.92 | 26.74 | 3.15 |

STATION 6

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 1.4 | 0.0 | 0.6 | 0.3 |
| 10 | 1.1 | 0.7 | <0.5 | 0.0 | 0.5 |
| 19 | 1.9 | 0.1 | 0.5 | - | 1.2 |
| 49 | 1.1 | 0.2 | 0.5 | 2.4 | 1.4 |
| 98 | 1.3 | - | - | 1.0 | 0.2 |
| 147 | 1.5 | - | 3.5 | 0.1 | 0.3 |
| 197 | 1.8 | - | 4.5 | 0.0 | 1.8 |
| 296 | 1.8 | 1.2 | 0.5 | - | 1.1 |
| 396 | 2.9 | - | 2.0 | 0.0 | 0.7 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 1.4 | 0.0 | 0.6 | 0.3 |
| 10 | 1.1 | 0.7 | <0.5 | 0.0 | 0.5 |
| 20 | 1.9 | 0.1 | 0.5 | 0.6 | 1.2 |
| 30 | 1.6 | 0.1 | 0.5 | 1.2 | 1.3 |
| 50 | 1.1 | 0.2 | 0.5 | 2.4 | 1.4 |
| 75 | 1.2 | - | 1.5 | 1.7 | 0.8 |
| 100 | 1.3 | - | 2.0 | 1.0 | 0.2 |
| 150 | 1.5 | - | 3.5 | 0.1 | 0.3 |
| 200 | 1.8 | - | 4.5 | 0.0 | 1.8 |
| 250 | 1.8 | - | 2.5 | 0.0 | 1.5 |
| 300 | 1.8 | 1.2 | 0.5 | 0.0 | 1.1 |
| 400 | 2.9 | - | 2.0 | 0.0 | 0.7 |

STATION 7

DATE June 24, 1954 LAT. 27°40'N. LONG. 79°18'W. TIME 04
 DEPTH 570 WIND -, - BAR. 18 AIR TEMP: dry 27.2°C, wet 25.6°C
 HUMIDITY 87% WEATHER 61 CLOUDS: type -, amt. - SEA: dir. 00, amt. 0
 SWELL: dir. 02, amt. 1 VIS. 5 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.08 | 35.85 | 23.03 | 4.48 |
| 10 | 27.85 | 35.82 | 23.08 | 4.47 |
| 19 | 27.86 | 35.96 | 23.18 | 4.45 |
| 47 | 27.41 | 35.97 | 23.34 | 4.56 |
| 95 | 24.13 | 36.56 | 24.80 | 4.11 |
| 144 | 21.41 | 36.69 | 25.69 | 4.25 |
| 192 | 19.50 | 36.70 | 26.21 | 4.25 |
| 290 | 17.93 | 36.48 | 26.44 | 4.25 |
| 389 | 15.89 | 36.15 | 26.67 | 4.52 |
| 488 | 13.62 | 35.75 | 26.86 | 4.08 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.08 | 35.85 | 23.03 | 4.48 |
| 10 | 27.85 | 35.82 | 23.08 | 4.47 |
| 20 | 27.86 | 35.96 | 23.18 | 4.46 |
| 30 | 27.81 | 35.96 | 23.20 | 4.53 |
| 50 | 27.19 | 36.02 | 23.45 | 4.51 |
| 75 | 25.42 | 36.37 | 24.27 | 4.23 |
| 100 | 23.82 | 36.58 | 24.91 | 4.13 |
| 150 | 21.13 | 36.70 | 25.77 | 4.25 |
| 200 | 19.39 | 36.69 | 26.23 | 4.25 |
| 250 | 18.62 | 36.58 | 26.34 | 4.25 |
| 300 | 17.73 | 36.45 | 26.47 | 4.31 |
| 400 | 15.65 | 36.11 | 26.70 | 4.51 |

STATION 7

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.9 | 0.7 | 0.0 | 0.0 | 1.5 |
| 10 | 1.3 | 0.4 | 0.5 | 0.5 | 0.3 |
| 19 | 1.5 | 0.1 | <0.5 | 0.0 | 1.2 |
| 47 | 1.2 | - | <0.5 | 5.3 | 0.8 |
| 95 | 3.5 | 0.4 | 0.5 | 0.3 | 1.4 |
| 144 | 5.5 | 3.5 | 0.5 | 0.0 | 0.6 |
| 192 | 1.2 | 0.7 | 1.0 | 0.0 | 1.8 |
| 290 | 4.8 | 0.9 | 0.5 | 0.0 | 1.0 |
| 389 | 1.8 | 1.3 | 8.0 | 11.9 | 0.8 |
| 488 | 5.3 | 1.6 | 11.0 | - | 1.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.9 | 0.7 | 0.0 | 0.0 | 1.5 |
| 10 | 1.3 | 0.4 | 0.5 | 0.5 | 0.3 |
| 20 | 1.5 | 0.1 | <0.5 | 0.0 | 1.2 |
| 30 | 1.4 | - | <0.5 | - | 1.1 |
| 50 | 1.2 | - | <0.5 | 5.3 | 0.8 |
| 75 | 2.4 | - | 0.5 | - | 1.1 |
| 100 | 3.5 | 0.4 | 0.5 | 0.3 | 1.4 |
| 150 | 5.5 | 3.5 | 0.5 | 0.0 | 0.6 |
| 200 | 1.2 | 0.7 | 1.0 | 0.0 | 1.8 |
| 250 | 3.0 | 0.8 | 1.0 | 0.0 | 1.4 |
| 300 | 4.8 | 0.9 | 0.5 | 0.0 | 1.0 |
| 400 | 1.8 | 1.3 | 8.0 | 11.9 | 0.8 |
| 500 | 5.3 | 1.6 | 11.0 | - | 1.9 |

STATION 8

DATE June 24, 1954 LAT. 28°19'N. LONG. 79°26'W. TIME 12
 DEPTH 786 WIND 3, 22 BAR. 18 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 83% WEATHER 01 CLOUDS: type 5, amt. 3 SEA: dir. 22, amt. 1
 SWELL: dir. 02, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.65 | 35.82 | 23.15 | 4.62 |
| 10 | 27.65 | 35.79 | 23.12 | 4.59 |
| 19 | 27.66 | 35.82 | 23.14 | - |
| 48 | 27.28 | 36.00 | 23.40 | 4.65 |
| 96 | 24.80 | 36.47 | 24.53 | 4.77 |
| 145 | 21.82 | 36.73 | 25.60 | 4.42 |
| 194 | 20.45 | 36.72 | 25.97 | 4.42 |
| 293 | 18.30 | 36.51 | 26.37 | 4.52 |
| 393 | 16.97 | 36.31 | 26.54 | 4.22 |
| 492 | 13.02 | 35.62 | 26.89 | 3.09 |
| 683 | 8.23 | 35.01 | 27.27 | 3.05 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.65 | 35.82 | 23.15 | 4.62 |
| 10 | 27.65 | 35.79 | 23.12 | 4.59 |
| 20 | 27.66 | 35.82 | 23.14 | 4.60 |
| 30 | 27.61 | 35.88 | 23.20 | 4.62 |
| 50 | 27.19 | 36.02 | 23.45 | 4.66 |
| 75 | 25.94 | 36.29 | 24.05 | 4.72 |
| 100 | 24.50 | 36.50 | 24.65 | 4.73 |
| 150 | 21.67 | 36.73 | 25.64 | 4.42 |
| 200 | 20.30 | 36.71 | 26.00 | 4.44 |
| 250 | 19.13 | 36.60 | 26.23 | 4.48 |
| 300 | 18.29 | 36.51 | 26.37 | 4.50 |
| 400 | 16.66 | 36.25 | 26.57 | 4.12 |
| 500 | 12.74 | 35.58 | 26.91 | 3.09 |
| 600 | 9.85 | 35.16 | 27.12 | 3.07 |

STATION 8

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.5 | 2.1 | 1.0 | 2.0 | 0.0 |
| 10 | 2.2 | 1.0 | <0.5 | 0.0 | - |
| 19 | 4.1 | 3.5 | <0.5 | 2.6 | 1.5 |
| 48 | 5.0 | 1.2 | <0.5 | 0.4 | 0.9 |
| 96 | 1.9 | 0.0 | <0.5 | 0.8 | 0.8 |
| 145 | 1.1 | 0.6 | <0.5 | 1.6 | 1.1 |
| 194 | 0.6 | 0.4 | 0.5 | 0.0 | 1.8 |
| 293 | 1.5 | 0.4 | 1.5 | 0.0 | 1.5 |
| 393 | 1.3 | 1.3 | 4.0 | 0.0 | 1.6 |
| 492 | 3.1 | 1.7 | 19.5 | 0.0 | 1.5 |
| 683 | 2.9 | 3.0 | 1.0 | 0.1 | 0.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.5 | 2.1 | 1.0 | 2.0 | 0.0 |
| 10 | 2.2 | 1.0 | <0.5 | 0.0 | 0.7 |
| 20 | 4.1 | 3.5 | <0.5 | 2.6 | 1.5 |
| 30 | 4.4 | 2.7 | <0.5 | 1.9 | 1.3 |
| 50 | 5.0 | 1.2 | <0.5 | 0.4 | 0.9 |
| 75 | 3.5 | 0.6 | <0.5 | 0.6 | 0.8 |
| 100 | 1.9 | 0.0 | <0.5 | 0.8 | 0.8 |
| 150 | 1.1 | 0.6 | <0.5 | 1.6 | 1.1 |
| 200 | 0.6 | 0.4 | 0.5 | 0.0 | 1.8 |
| 250 | 1.1 | 0.4 | 1.0 | 0.0 | 1.7 |
| 300 | 1.5 | 0.4 | 1.5 | 0.0 | 1.5 |
| 400 | 1.3 | 1.3 | 4.0 | 0.0 | 1.6 |
| 500 | 3.1 | 1.7 | 19.5 | 0.0 | 1.5 |
| 600 | 3.0 | 2.4 | 10.5 | <0.1 | 1.2 |

STATION 9

DATE June 24, 1954 LAT. 28°20'N. LONG. 79°48'W. TIME 16
 DEPTH 427 WIND 4, 25 BAR. 18 AIR TEMP: dry 28.9°C, wet 26.1°C
 HUMIDITY 80% WEATHER 01 CLOUDS: type 8, amt. 2 SEA: dir. 25, amt. 1
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.40 | 35.99 | 23.03 | - |
| 8 | 28.14 | 35.99 | 23.11 | - |
| 17 | 27.95 | 35.95 | 23.15 | 4.57 |
| 43 | 27.58 | 36.02 | 23.32 | 4.65 |
| 86 | 24.81 | 36.42 | 24.49 | 4.27 |
| 130 | 21.86 | 36.51 | 25.42 | 4.07 |
| 174 | 20.02 | 36.62 | 26.01 | 3.57 |
| 262 | 16.56 | 36.18 | 26.54 | 3.22 |
| 352 | 9.02 | 35.09 | 27.21 | 3.00 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.40 | 35.99 | 23.03 | - |
| 10 | 28.10 | 35.98 | 23.12 | - |
| 20 | 27.91 | 35.95 | 23.16 | 4.59 |
| 30 | 27.89 | 35.97 | 23.18 | 4.64 |
| 50 | 27.14 | 36.11 | 23.53 | 4.58 |
| 75 | 25.53 | 36.35 | 24.22 | 4.35 |
| 100 | 23.75 | 36.45 | 24.83 | 4.24 |
| 150 | 21.01 | 36.59 | 25.72 | 3.82 |
| 200 | 19.40 | 36.55 | 26.12 | 3.45 |
| 250 | 17.26 | 36.28 | 26.45 | 3.26 |
| 300 | 13.87 | 35.80 | 26.85 | 3.11 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 1.3 | <0.5 | 0.0 | 1.1 |
| 8 | 2.9 | 0.3 | <0.5 | - | - |
| 17 | - | - | 0.5 | 0.3 | 1.6 |
| 43 | 2.2 | 1.1 | <0.5 | 0.1 | 0.8 |
| 86 | 2.0 | - | 0.0 | 0.0 | 1.8 |
| 130 | 1.6 | 0.9 | 3.0 | 0.0 | 0.0 |
| 174 | 1.7 | 1.9 | 0.5 | 0.0 | 0.4 |
| 262 | 2.3 | 1.5 | 1.0 | 6.7 | 1.0 |
| 352 | 3.4 | - | 8.5 | 0.0 | - |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 1.3 | <0.5 | 0.0 | 1.1 |
| 10 | 2.9 | 0.4 | 0.5 | 0.2 | 1.4 |
| 20 | 2.7 | 0.6 | 0.5 | 0.3 | 1.5 |
| 30 | 2.5 | 0.8 | <0.5 | 0.2 | 1.2 |
| 50 | 2.2 | 1.1 | <0.5 | 0.1 | 1.0 |
| 75 | 2.1 | 1.0 | <0.5 | 0.0 | 1.5 |
| 100 | 1.9 | 1.0 | 1.0 | 0.0 | 1.2 |
| 150 | 1.7 | 1.4 | 2.0 | 0.0 | 0.2 |
| 200 | 1.9 | 1.8 | 0.5 | 2.0 | 0.6 |
| 250 | 2.3 | 1.6 | 1.0 | 5.8 | 0.9 |
| 300 | 2.8 | - | 4.0 | 3.9 | - |

STATION 10

DATE June 24, 1954 LAT. 28°20'N. LONG. 80°10'W. TIME 19
 DEPTH 42 WIND 2, 17 BAR. 18 AIR TEMP: dry 28.3°C, wet 24.4°C
 HUMIDITY 72% WEATHER 01 CLOUDS: type 8, amt. 2 SEA: dir. -, amt. -
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.30 | 35.86 | 22.96 | 4.57 |
| 10 | 27.82 | 36.08 | 23.29 | 4.46 |
| 20 | 26.87 | 36.19 | 23.68 | 4.76 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.30 | 35.86 | 22.96 | 4.57 |
| 10 | 27.82 | 36.08 | 23.29 | 4.46 |
| 20 | 26.87 | 36.19 | 23.68 | 4.76 |

STATION 10

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 3.0 | 2.4 | <0.5 | 7.4 | 0.7 |
| 10 | 1.2 | 0.6 | 0.5 | 0.5 | 0.4 |
| 20 | 2.0 | 0.8 | <0.5 | 0.1 | 0.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 3.0 | 2.4 | <0.5 | 7.4 | 0.7 |
| 10 | 1.2 | 0.6 | 0.5 | 0.5 | 0.4 |
| 20 | 2.0 | 0.8 | <0.5 | 0.1 | 0.6 |

STATION 11

DATE June 24, 1954 LAT. 28°20'N. LONG. 80°33'W. TIME 22
 DEPTH 11 WIND 6, 14 BAR. 16 AIR TEMP: dry 27.2°C, wet 26.1°C
 HUMIDITY 91% WEATHER 03 CLOUDS: type 5, amt. 6 SEA: dir. 14, amt. 2
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.85 | 36.07 | 23.59 | 4.96 |
| 7 | 26.05 | 36.04 | 23.82 | 5.03 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.85 | 36.07 | 23.59 | 4.96 |

STATION 11

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.4 | 0.5 | 1.5 | 1.7 |
| 7 | 1.9 | - | <0.5 | 0.0 | 1.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.4 | 0.5 | 1.5 | 1.7 |
| 10 | 1.9 | - | <0.5 | 0.0 | 1.6 |

STATION 12

DATE June 25, 1954 LAT. 28°41'N. LONG. 80°25'W. TIME 01
 DEPTH 18 WIND 5, 20 BAR. 17 AIR TEMP: dry 26.7°C, wet 25.0°C
 HUMIDITY 87% WEATHER 21 CLOUDS: type 5, amt. 7 SEA: dir. 20, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.66 | 36.07 | 23.65 | 4.90 |
| 10 | 26.32 | 36.06 | 23.75 | 4.65 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.66 | 36.07 | 23.65 | 4.90 |
| 10 | 26.32 | 36.06 | 23.75 | 4.65 |

STATION 12

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 1.1 | <0.5 | 2.1 | 1.1 |
| 10 | 1.3 | 0.5 | 0.5 | 1.6 | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 1.1 | <0.5 | 2.1 | 1.1 |
| 10 | 1.3 | 0.5 | 0.5 | 1.6 | 0.2 |

STATION 13

DATE June 25, 1954 LAT. 29°00'N. LONG. 80°32'W. TIME 03
 DEPTH 20 WIND 7, 25 BAR. 17 AIR TEMP: dry 26.7°C, wet 24.4°C
 HUMIDITY 83% WEATHER 01 CLOUDS: type -, amt. - SEA: dir. 25, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.59 | 36.06 | 23.67 | 4.77 |
| 10 | 26.56 | 36.00 | 23.63 | 4.66 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.59 | 36.06 | 23.67 | 4.77 |
| 10 | 26.56 | 36.00 | 23.63 | 4.66 |

STATION 13

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.7 | - | 0.0 | 0.8 | 0.8 |
| 10 | 2.7 | 0.6 | <0.5 | - | 1.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.7 | - | 0.0 | 0.8 | 0.8 |
| 10 | 2.7 | 0.6 | <0.5 | - | 1.1 |

STATION 14

DATE June 25, 1954 LAT. 29°00'N. LONG. 80°10'W. TIME 06
 DEPTH 60 WIND 6, 24 BAR. 17 AIR TEMP: dry 26.7°C, wet 23.9°C
 HUMIDITY 79% WEATHER 01 CLOUDS: type -, amt. - SEA: dir. 24, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.85 | 36.11 | 23.62 | 4.74 |
| 10 | 26.72 | 36.15 | 23.69 | 4.71 |
| 20 | 26.30 | 36.12 | 23.80 | 4.65 |
| 30 | 25.97 | 36.11 | 23.90 | 4.67 |
| 50 | 25.35 | 36.11 | 24.09 | 4.70 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.85 | 36.11 | 23.62 | 4.74 |
| 10 | 26.72 | 36.15 | 23.69 | 4.71 |
| 20 | 26.30 | 36.12 | 23.80 | 4.65 |
| 30 | 25.97 | 36.11 | 23.90 | 4.67 |
| 50 | 25.35 | 36.11 | 24.09 | 4.70 |

STATION 14

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.4 | - | 1.9 | 1.6 |
| 10 | 1.3 | 0.5 | 0.0 | 0.0 | 1.2 |
| 20 | 0.8 | 0.6 | 1.0 | 0.0 | 1.5 |
| 30 | 2.0 | 1.3 | 0.5 | 0.8 | 1.2 |
| 50 | 0.8 | 0.5 | 0.5 | 0.8 | 1.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.4 | - | 1.9 | 1.6 |
| 10 | 1.3 | 0.5 | 0.0 | 0.0 | 1.2 |
| 20 | 0.8 | 0.6 | 1.0 | 0.0 | 1.5 |
| 30 | 2.0 | 1.3 | 0.5 | 0.8 | 1.2 |
| 50 | 0.8 | 0.5 | 0.5 | 0.8 | 1.2 |

STATION 15

DATE June 25, 1954 LAT. 28°59'N LONG. 79°48'W TIME 10
 DEPTH 695 WIND 5, 27 BAR. 16 AIR TEMP: dry 26.7°C, wet 25.0°C
 HUMIDITY 87% WEATHER 02 CLOUDS: type -, amt. - SEA: dir. 27, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.68 | 35.70 | 23.05 | 4.56 |
| 9 | 27.66 | 35.70 | 23.05 | 4.57 |
| 17 | 27.43 | 35.70 | 23.13 | 4.62 |
| 42 | 27.33 | 35.84 | 23.27 | 4.63 |
| 85 | 25.63 | 36.36 | 24.20 | 4.44 |
| 128 | 23.06 | 36.73 | 25.25 | 4.18 |
| 170 | 20.86 | 36.70 | 25.84 | 3.66 |
| 255 | 17.76 | 36.38 | 26.41 | 3.36 |
| 342 | 12.73 | 35.66 | 26.98 | 3.04 |
| 512 | 7.07 | 34.97 | 27.41 | 3.15 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.68 | 35.70 | 23.05 | 4.56 |
| 10 | 27.63 | 35.70 | 23.06 | 4.58 |
| 20 | 27.42 | 35.71 | 23.14 | 4.62 |
| 30 | 27.38 | 35.76 | 23.19 | 4.63 |
| 50 | 27.08 | 35.95 | 23.43 | 4.60 |
| 75 | 26.10 | 36.25 | 23.97 | 4.49 |
| 100 | 24.70 | 36.54 | 24.62 | 4.38 |
| 150 | 21.85 | 36.72 | 25.59 | 3.88 |
| 200 | 19.97 | 36.63 | 26.03 | 3.56 |
| 250 | 17.99 | 36.41 | 26.37 | 3.38 |
| 300 | 14.98 | 35.98 | 26.75 | 3.16 |
| 400 | 10.18 | 35.32 | 27.19 | 3.08 |
| 500 | 7.29 | 34.99 | 27.39 | 3.11 |

STATION 15

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.2 | 0.4 | 1.0 | 0.0 | 0.7 |
| 9 | 1.4 | 0.4 | 0.0 | 0.0 | 1.1 |
| 17 | 3.2 | 0.4 | 0.5 | 0.0 | 1.9 |
| 42 | 1.5 | 0.5 | 0.0 | 0.0 | 1.4 |
| 85 | 1.0 | 0.4 | 0.0 | 8.1 | 0.3 |
| 128 | 3.1 | 0.4 | 1.5 | 0.0 | 0.7 |
| 170 | 0.9 | 0.8 | <0.5 | 0.3 | 1.3 |
| 260 | 1.3 | 1.3 | - | 0.0 | 1.1 |
| 342 | 2.1 | - | 17.0 | 0.0 | 1.5 |
| 512 | 2.7 | 2.8 | 18.5 | 0.2 | 1.5 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.2 | 0.4 | 1.0 | 0.0 | 0.7 |
| 10 | 1.4 | 0.4 | 0.0 | 0.0 | 1.1 |
| 20 | 3.0 | 0.4 | 0.5 | 0.0 | 1.8 |
| 30 | 2.3 | 0.5 | <0.5 | 0.0 | 1.6 |
| 50 | 1.4 | 0.5 | 0.0 | 0.0 | 1.2 |
| 75 | 1.1 | 0.4 | 0.0 | 8.1 | 0.6 |
| 100 | 1.7 | 0.4 | 0.5 | - | 0.5 |
| 150 | 2.0 | 0.6 | 1.0 | 0.2 | 1.0 |
| 200 | 1.0 | 1.0 | 3.0 | 0.2 | 1.3 |
| 250 | 1.3 | 1.2 | 8.0 | 0.1 | 1.2 |
| 300 | 1.7 | 1.5 | 13.0 | 0.0 | 1.3 |
| 400 | 2.3 | 2.2 | 17.5 | 0.1 | 1.5 |
| 500 | 2.6 | 2.7 | 18.5 | 0.2 | 1.5 |

STATION 16

DATE June 25, 1954 LAT. 29°00'N. LONG. 79°26'W. TIME 14
 DEPTH 823 WIND 4, 22 BAR. 18 AIR TEMP: dry 29.4°C, wet 26.7°C
 HUMIDITY 80% WEATHER 01 CLOUDS: type 5, amt. 1 SEA: dir. 23, amt. 2
 SWELL: dir. -, amt. - VIS. - WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.15 | 36.27 | 23.32 | 4.46 |
| 10 | 28.13 | 36.13 | 23.22 | 4.63 |
| 20 | 27.95 | 36.09 | 23.25 | 4.63 |
| 50 | 26.63 | 36.09 | 23.68 | 4.59 |
| 100 | 24.22 | 36.60 | 24.81 | 4.57 |
| 150 | 22.22 | 36.74 | 25.50 | 4.13 |
| 200 | 20.65 | 36.77 | 25.95 | 4.40 |
| 300 | 18.41 | 36.55 | 26.38 | 4.40 |
| 400 | 16.94 | 36.36 | 26.59 | 4.13 |
| 500 | 14.25 | 35.84 | 26.80 | 3.09 |
| 700 | 9.14 | 35.16 | 27.24 | 2.96 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.15 | 36.27 | 23.32 | 4.46 |
| 10 | 28.13 | 36.13 | 23.22 | 4.63 |
| 20 | 27.95 | 36.09 | 23.25 | 4.63 |
| 30 | 27.52 | 36.09 | 23.39 | 4.61 |
| 50 | 26.63 | 36.09 | 23.68 | 4.59 |
| 75 | 25.37 | 36.39 | 24.30 | 4.58 |
| 100 | 24.22 | 36.60 | 24.81 | 4.57 |
| 150 | 22.22 | 36.74 | 25.50 | 4.13 |
| 200 | 20.65 | 36.77 | 25.95 | 4.40 |
| 250 | 19.43 | 36.66 | 26.20 | 4.40 |
| 300 | 18.41 | 36.56 | 26.38 | 4.40 |
| 400 | 16.94 | 36.36 | 26.59 | 4.13 |
| 500 | 14.25 | 35.84 | 26.80 | 3.09 |
| 600 | 11.65 | 35.44 | 27.02 | 3.02 |

STATION 16

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.5 | 0.5 | 0.0 | 0.0 | 1.0 |
| 10 | 1.0 | 0.8 | 0.5 | - | 1.4 |
| 20 | 1.8 | 1.8 | 1.5 | 10.1 | 0.7 |
| 50 | 1.2 | 0.3 | 0.5 | 10.6 | 1.3 |
| 100 | 1.6 | 0.4 | 0.5 | - | 1.6 |
| 150 | 1.8 | 1.4 | 0.5 | 1.9 | 2.3 |
| 200 | 0.9 | 0.4 | 0.0 | 0.0 | 0.3 |
| 300 | 0.7 | 0.8 | 1.0 | 0.3 | 1.4 |
| 400 | 0.9 | 0.8 | 1.5 | 2.7 | 0.9 |
| 500 | 2.1 | 1.7 | 5.0 | - | 1.4 |
| 700 | 2.5 | - | 4.5 | 0.0 | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.5 | 0.5 | 0.0 | 0.0 | 1.0 |
| 10 | 1.0 | 0.8 | 0.5 | - | 1.4 |
| 20 | 1.8 | 1.8 | 1.5 | 10.1 | 0.7 |
| 30 | 1.6 | 1.3 | 1.0 | 10.3 | 0.9 |
| 50 | 1.2 | 0.3 | 0.5 | 10.6 | 1.3 |
| 75 | 1.4 | 0.3 | 0.5 | - | 1.5 |
| 100 | 1.6 | 0.4 | 0.5 | - | 1.6 |
| 150 | 1.8 | 1.4 | 0.5 | 1.9 | 2.3 |
| 200 | 0.9 | 0.4 | 0.0 | 0.0 | 0.3 |
| 250 | 0.8 | 0.6 | 0.5 | 0.2 | 0.8 |
| 300 | 0.7 | 0.8 | 1.0 | 0.3 | 1.4 |
| 400 | 0.9 | 0.8 | 1.5 | 2.7 | 0.9 |
| 500 | 2.1 | 1.7 | 5.0 | - | 1.4 |
| 600 | 2.3 | - | 5.0 | - | 0.8 |
| 700 | 2.5 | - | 4.5 | 0.0 | 0.2 |

STATION 17

DATE June 25, 1954 LAT. 29°38'N. LONG. 79°36'W. TIME 19
 DEPTH 777 WIND 4, 28 BAR. 17 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 2, amt. 2 SEA: dir. 28, amt. 1
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.54 | 35.96 | 22.96 | 4.56 |
| 10 | 27.88 | 35.96 | 23.18 | 4.59 |
| 20 | 27.95 | 36.07 | 23.24 | 4.61 |
| 50 | 27.07 | 36.08 | 23.53 | 4.64 |
| 100 | 25.79 | 36.30 | 24.10 | 4.39 |
| 150 | 22.64 | 36.67 | 25.32 | 4.22 |
| 200 | 20.56 | 36.76 | 25.97 | 4.25 |
| 300 | 18.19 | 36.52 | 26.41 | 4.25 |
| 400 | 15.27 | 36.00 | 26.70 | 3.44 |
| 500 | 13.54 | 35.73 | 26.87 | 3.15 |
| 700 | 9.71 | 35.21 | 27.18 | 2.91 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.54 | 35.96 | 22.96 | 4.56 |
| 10 | 27.88 | 35.96 | 23.18 | 4.59 |
| 20 | 27.95 | 36.07 | 23.24 | 4.61 |
| 30 | 27.65 | 36.07 | 23.33 | 4.63 |
| 50 | 27.07 | 36.08 | 23.53 | 4.64 |
| 75 | 26.66 | 36.17 | 23.73 | 4.51 |
| 100 | 25.79 | 36.30 | 24.10 | 4.39 |
| 150 | 22.64 | 36.67 | 25.32 | 4.22 |
| 200 | 20.56 | 36.76 | 25.97 | 4.25 |
| 250 | 19.44 | 36.68 | 26.21 | 4.25 |
| 300 | 18.19 | 36.52 | 26.41 | 4.25 |
| 400 | 15.27 | 36.00 | 26.70 | 3.44 |
| 500 | 13.54 | 35.73 | 26.87 | 3.15 |
| 600 | 11.69 | 35.47 | 27.03 | 2.97 |

STATION 17

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.4 | 0.4 | <0.5 | 1.4 | 1.7 |
| 10 | 1.5 | 1.6 | <0.5 | 0.0 | 1.3 |
| 20 | 0.8 | 1.0 | 0.5 | 1.3 | 1.4 |
| 50 | 0.7 | - | 1.0 | 0.0 | 1.9 |
| 100 | - | 0.1 | 0.0 | 1.4 | 1.0 |
| 150 | 2.3 | 0.8 | 0.5 | 0.0 | 0.9 |
| 200 | 2.2 | 0.5 | 1.0 | 1.9 | 3.4 |
| 300 | 1.7 | 0.9 | 5.0 | - | 1.7 |
| 400 | 4.6 | 1.4 | 2.0 | 0.0 | 0.8 |
| 500 | 2.7 | 1.7 | 3.0 | 0.0 | 0.7 |
| 700 | 3.5 | 2.4 | 4.5 | 0.2 | 1.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.4 | 0.4 | <0.5 | 1.4 | 1.7 |
| 10 | 1.5 | 1.6 | <0.5 | 0.0 | 1.3 |
| 20 | 0.8 | 1.0 | 0.5 | 1.3 | 1.4 |
| 30 | 0.8 | - | 1.0 | 0.9 | 1.6 |
| 50 | 0.7 | - | 1.0 | 0.0 | 1.9 |
| 75 | 1.1 | - | 0.5 | 0.7 | 1.5 |
| 100 | 1.5 | 0.1 | 0.0 | 1.4 | 1.0 |
| 150 | 2.3 | 0.8 | 0.5 | 0.0 | 0.9 |
| 200 | 2.2 | 0.5 | 1.0 | 1.9 | 3.4 |
| 250 | 2.0 | 0.7 | 3.0 | - | 2.6 |
| 300 | 1.7 | 0.9 | 5.0 | - | 1.7 |
| 400 | 4.6 | 1.4 | 2.0 | 0.0 | 0.8 |
| 500 | 2.7 | 1.7 | 3.0 | 0.0 | 0.7 |
| 600 | 3.1 | 2.1 | 4.0 | 0.1 | 1.0 |
| 700 | 3.5 | 2.4 | 4.5 | 0.2 | 1.3 |

STATION 18

DATE June 25, 1954 LAT. 29°40'N. LONG. 80°00'W. TIME 23
 DEPTH 567 WIND 2, 12 BAR. 16 AIR TEMP: dry 28.3°C, wet 26.1°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type 4, amt. 1 SEA: dir. 12, amt. 1
 SWELL: dir. 32, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.78 | 35.95 | 22.87 | - |
| 7 | 28.00 | 35.91 | 23.10 | 4.61 |
| 15 | 27.85 | 36.00 | 23.22 | 4.64 |
| 38 | 27.75 | 36.00 | 23.25 | 4.66 |
| 77 | 26.02 | 36.28 | 24.01 | 4.63 |
| 113 | 23.50 | 36.47 | 24.92 | 4.55 |
| 152 | 20.68 | 36.44 | 25.70 | 4.50 |
| 231 | 16.12 | 36.08 | 26.57 | 3.22 |
| 311 | 12.07 | 35.52 | 27.00 | 3.03 |
| 392 | 9.09 | 35.11 | 27.21 | 2.91 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.78 | 35.95 | 22.87 | - |
| 10 | 27.94 | 35.95 | 23.15 | 4.62 |
| 20 | 27.83 | 36.00 | 23.22 | 4.64 |
| 30 | 27.78 | 36.00 | 23.24 | 4.64 |
| 50 | 27.33 | 36.09 | 23.45 | 4.63 |
| 75 | 26.13 | 36.27 | 23.97 | 4.63 |
| 100 | 24.42 | 36.43 | 24.62 | 4.58 |
| 150 | 20.82 | 36.44 | 25.66 | 4.51 |
| 200 | 17.84 | 36.24 | 26.28 | 3.59 |
| 250 | 15.06 | 35.93 | 26.69 | 3.17 |
| 300 | 12.56 | 35.59 | 26.96 | 3.05 |

STATION 18

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 0.6 | 1.0 | 0.0 | 0.9 |
| 7 | 0.5 | 0.4 | 1.0 | 0.0 | 1.9 |
| 15 | 2.3 | 0.4 | 0.5 | 2.8 | 1.9 |
| 38 | 1.3 | 0.6 | 1.0 | 0.6 | - |
| 77 | 1.8 | 0.3 | 0.0 | 0.7 | 1.3 |
| 113 | 1.7 | 1.3 | <0.5 | 1.1 | 1.2 |
| 152 | 1.5 | 1.5 | 1.0 | 2.5 | - |
| 231 | 3.4 | 2.2 | 5.0 | 0.4 | 1.3 |
| 311 | 2.6 | 1.7 | 21.0 | - | 2.1 |
| 392 | 2.6 | 2.7 | 14.5 | 0.0 | 1.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 0.6 | 1.0 | 0.0 | 0.9 |
| 10 | 1.0 | 0.4 | 1.0 | 1.0 | 1.9 |
| 20 | 2.1 | 0.5 | 0.5 | 2.3 | 1.9 |
| 30 | 1.6 | 0.6 | 1.0 | 1.4 | 1.8 |
| 50 | 1.5 | 0.5 | 0.5 | 0.6 | 1.6 |
| 75 | 1.8 | 0.3 | 0.0 | 0.7 | 1.3 |
| 100 | 1.7 | 1.0 | <0.5 | 1.0 | 1.2 |
| 150 | 1.5 | 1.5 | 1.0 | 2.5 | 1.3 |
| 200 | 2.7 | 2.0 | 3.5 | 1.2 | 1.3 |
| 250 | 3.2 | 2.1 | 9.0 | 0.4 | 1.5 |
| 300 | 2.7 | 1.8 | 19.0 | 0.2 | 2.0 |
| 400 | 2.6 | 2.7 | 14.5 | 0.0 | 1.1 |

STATION 19

DATE June 26, 1954 LAT. 29°40'N. LONG. 80°23'W. TIME 03
 DEPTH 40 WIND 7, 18 BAR. 17 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type -, amt. - SEA: dir. 17, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.09 | 36.11 | 23.55 | 4.65 |
| 10 | 27.07 | 36.13 | 23.57 | 4.66 |
| 20 | 26.92 | 36.11 | 23.60 | 4.69 |
| 30 | 26.75 | 36.11 | 23.65 | 4.64 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.09 | 36.11 | 23.55 | 4.65 |
| 10 | 27.07 | 36.13 | 23.57 | 4.66 |
| 20 | 26.92 | 36.11 | 23.60 | 4.69 |
| 30 | 26.75 | 36.11 | 23.65 | 4.64 |

STATION 19

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.5 | 0.5 | <0.5 | - | 1.3 |
| 10 | 3.1 | 1.6 | 0.5 | 0.0 | 1.5 |
| 20 | 2.5 | 0.5 | 0.0 | 0.0 | 0.8 |
| 30 | 1.6 | 0.7 | 0.5 | - | 1.5 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.5 | 0.5 | <0.5 | - | 1.3 |
| 10 | 3.1 | 1.6 | 0.5 | 0.0 | 1.5 |
| 20 | 2.5 | 0.5 | 0.0 | 0.0 | 0.8 |
| 30 | 1.6 | 0.7 | 0.5 | - | 1.5 |

STATION 20

DATE June 26, 1954 LAT. 29°40'N. LONG. 80°45'W. TIME 05
 DEPTH 27 WIND 6, 17 BAR. 17 AIR TEMP: dry 27.2°C, wet 24.4°C
 HUMIDITY 79% WEATHER 02 CLOUDS: type -, amt. 2 SEA: dir. 17, amt. 1
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.01 | 35.91 | 23.42 | 4.51 |
| 10 | 27.01 | 35.93 | 23.44 | 4.51 |
| 20 | 26.74 | 35.96 | 23.54 | 4.55 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.01 | 35.91 | 23.42 | 4.51 |
| 10 | 27.01 | 35.93 | 23.44 | 4.51 |
| 20 | 26.74 | 35.96 | 23.54 | 4.55 |

STATION 20

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.7 | 0.6 | 0.0 | 0.7 | 1.5 |
| 10 | 0.8 | 0.7 | 0.5 | 0.7 | 2.0 |
| 20 | 1.6 | - | 0.5 | - | 0.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.7 | 0.6 | 0.0 | 0.7 | 1.5 |
| 10 | 0.8 | 0.7 | 0.5 | 0.7 | 2.0 |
| 20 | 1.6 | - | 0.5 | - | 0.8 |

STATION 21

DATE June 26, 1954 LAT. 29°40' N. LONG. 81°08' W. TIME 08
 DEPTH 18 WIND 7, 21 BAR. 16 AIR TEMP: dry 26.1°C, wet 25.0°C
 HUMIDITY 91% WEATHER 02 CLOUDS: type -, amt. 2 SEA: dir. 21, amt. 1
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.56 | 35.46 | 22.90 | 4.58 |
| 10 | 27.52 | 35.54 | 22.98 | 4.60 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.56 | 35.46 | 22.90 | 4.58 |
| 10 | 27.52 | 35.54 | 22.98 | 4.60 |

STATION 21

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 0.2 | 0.5 | 1.8 | 1.1 |
| 10 | 3.6 | 2.0 | 0.0 | 1.5 | 3.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 0.2 | 0.5 | 1.8 | 1.1 |
| 10 | 3.6 | 2.0 | 0.0 | 1.5 | 3.3 |

STATION 22

DATE June 26, 1954 LAT. 30°01'N. LONG. 81°14'W. TIME 11
 DEPTH 15 WIND 5, 23 BAR. 17 AIR TEMP: dry 25.6°C, wet 25.0°C
 HUMIDITY 96% WEATHER 01 CLOUDS: type 5, amt. 1 SEA: dir. 24, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.38 | 35.52 | 23.01 | 4.53 |
| 10 | 27.30 | 35.53 | 23.04 | 4.48 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.38 | 35.52 | 23.01 | 4.53 |
| 10 | 27.30 | 35.53 | 23.04 | 4.48 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 1.1 | <0.5 | 1.0 | 1.3 |
| 10 | 1.6 | 1.3 | <0.5 | 0.0 | 2.5 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 1.1 | <0.5 | 1.0 | 1.3 |
| 10 | 1.6 | 1.3 | <0.5 | 0.0 | 2.5 |

STATION 23

DATE June 26, 1954 LAT. 30°20'N. LONG. 81°20'W. TIME 13
 DEPTH 12 WIND 5, 28 BAR. 18 AIR TEMP: dry 25.0°C, wet 24.4°C
 HUMIDITY 96% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 28, amt. 1
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.71 | 35.11 | 22.59 | 4.54 |
| 10 | 27.59 | 35.21 | 22.71 | 4.44 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.71 | 35.11 | 22.59 | 4.54 |
| 10 | 27.59 | 35.21 | 22.71 | 4.44 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.7 | 0.8 | 0.0 | - | - |
| 10 | 1.5 | 1.5 | <0.5 | 0.0 | 2.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.7 | 0.8 | 0.0 | - | - |
| 10 | 1.5 | 1.5 | <0.5 | 0.0 | 2.0 |

STATION 24

DATE June 26, 1954 LAT. 30°20'N. LONG. 80°58'W. TIME 16
 DEPTH 29 WIND 4, 27 BAR. 18 AIR TEMP: dry 30.0°C, wet 27.2°C
 HUMIDITY 81% WEATHER 05 CLOUDS: type -, amt. - SEA: dir. 27, amt. 1
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.44 | 35.52 | 22.99 | - |
| 10 | 27.09 | 35.55 | 23.12 | 4.73 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.44 | 35.52 | 22.99 | - |
| 10 | 27.09 | 35.55 | 23.12 | 4.73 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.8 | 0.9 | <0.5 | 0.5 | 0.9 |
| 10 | 1.7 | 0.5 | 0.0 | 0.3 | 1.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.8 | 0.9 | <0.5 | 0.5 | 0.9 |
| 10 | 1.7 | 0.5 | 0.0 | 0.3 | 1.8 |

STATION 25

DATE June 26, 1954 LAT. 30°20'N. LONG. 80°36'W. TIME 19
 DEPTH 36 WIND 4, 22 BAR. 17 AIR TEMP: dry 30.0°C, wet 27.2°C
 HUMIDITY 81% WEATHER 05 CLOUDS: type -, amt. - SEA: dir. 26, amt. 1
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.93 | 36.02 | 23.21 | 4.69 |
| 10 | 27.29 | 36.05 | 23.44 | 4.66 |
| 20 | 27.20 | 36.06 | 23.47 | 4.70 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.93 | 36.02 | 23.21 | 4.69 |
| 10 | 27.29 | 36.05 | 23.44 | 4.66 |
| 20 | 27.20 | 36.06 | 23.47 | 4.70 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.6 | 0.4 | <0.5 | 0.7 | 0.8 |
| 10 | 0.7 | 0.5 | 6.0 | 0.3 | 2.4 |
| 20 | 0.7 | 0.4 | 0.5 | 0.9 | - |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.6 | 0.4 | <0.5 | 0.7 | 0.8 |
| 10 | 0.7 | 0.5 | 6.0 | 0.3 | 2.4 |
| 20 | 0.7 | 0.4 | 0.5 | 0.9 | - |

STATION 26

DATE June 26, 1954 LAT. 30°20'N. LONG. 80°12'W. TIME 22
 DEPTH 131 WIND 3, 19 BAR. 16 AIR TEMP: dry 30.6°C, wet 27.2°C
 HUMIDITY 77% WEATHER 02 CLOUDS: type 5, amt. 1 SEA: dir. 23, amt. 1
 SWELL: dir. 30, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.38 | 35.99 | 23.03 | 4.64 |
| 10 | 27.78 | 35.92 | 23.18 | 4.65 |
| 20 | 27.46 | 36.03 | 23.37 | 4.65 |
| 50 | 24.80 | 36.32 | 24.42 | 4.84 |
| 75 | 22.82 | 36.47 | 25.12 | 4.23 |
| 100 | 17.16 | 36.06 | 26.31 | 3.58 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.38 | 35.99 | 23.03 | 4.64 |
| 10 | 27.78 | 35.92 | 23.18 | 4.65 |
| 20 | 27.46 | 36.03 | 23.37 | 4.65 |
| 30 | 26.54 | 36.14 | 23.74 | 4.83 |
| 50 | 24.80 | 36.32 | 24.42 | 4.84 |
| 75 | 22.82 | 36.47 | 25.12 | 4.23 |
| 100 | 17.16 | 36.06 | 26.31 | 3.58 |

STATION 26

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.9 | 1.5 | 2.4 | 0.8 |
| 10 | 1.9 | - | 3.5 | 0.4 | - |
| 20 | 1.5 | 0.4 | 1.0 | 0.0 | 0.9 |
| 50 | - | 1.1 | 2.0 | 0.2 | 1.1 |
| 75 | 1.1 | 0.3 | <0.5 | 1.1 | 0.6 |
| 100 | 1.6 | 0.9 | 1.0 | 0.0 | 1.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.9 | 1.5 | 2.4 | 0.8 |
| 10 | 1.9 | 0.7 | 3.5 | 0.4 | 0.8 |
| 20 | 1.5 | 0.4 | 1.0 | 0.0 | 0.9 |
| 30 | 1.4 | 0.6 | 1.5 | <0.1 | 0.9 |
| 50 | 1.3 | 1.1 | 2.0 | 0.2 | 1.1 |
| 75 | 1.1 | 0.3 | <0.5 | 1.1 | 0.6 |
| 100 | 1.6 | 0.9 | 1.0 | 0.0 | 1.4 |

STATION 27

DATE June 27, 1954 LAT. 30°20'N. LONG. 79°50'W. TIME 01
 DEPTH 585 WIND 5, 23 BAR. 15 AIR TEMP: dry 28.9°C, wet 26.7°C
 HUMIDITY 84% WEATHER 02 CLOUDS: type 5, amt. 1 SEA: dir. 23, amt. 2
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.24 | 35.89 | 23.01 | 4.47 |
| 9 | 28.05 | 35.90 | 23.08 | 4.48 |
| 17 | 28.06 | 36.00 | 23.15 | 4.51 |
| 44 | 26.96 | 36.11 | 23.59 | 4.57 |
| 87 | 25.53 | 36.37 | 24.23 | 4.51 |
| 132 | 23.79 | 36.54 | 24.89 | 4.42 |
| 175 | 21.84 | 36.58 | 25.48 | 3.89 |
| 217 | 19.07 | 36.46 | 26.14 | 3.36 |
| 292 | 14.71 | 34.76* | 25.87 | 3.09 |
| 368 | 11.29 | 35.40 | 27.05 | 2.90 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.24 | 35.89 | 23.01 | 4.47 |
| 10 | 28.06 | 35.91 | 23.08 | 4.48 |
| 20 | 27.93 | 36.01 | 23.20 | 4.52 |
| 30 | 27.51 | 36.05 | 23.37 | 4.55 |
| 50 | 26.77 | 36.15 | 23.68 | 4.56 |
| 75 | 25.95 | 36.31 | 24.06 | 4.53 |
| 100 | 25.06 | 36.43 | 24.42 | 4.48 |
| 150 | 23.08 | 36.58 | 25.13 | 4.20 |
| 200 | 20.16 | 36.52 | 25.90 | 3.55 |
| 250 | 17.03 | 36.29 | 26.51 | 3.24 |
| 300 | 14.30 | 35.92 | 26.85 | 3.07 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 1.3 | <0.5 | 0.0 | 1.2 |
| 9 | 1.3 | 0.8 | 1.0 | 0.0 | 2.3 |
| 17 | - | 1.0 | 0.0 | 0.0 | 1.9 |
| 45 | 1.4 | 0.3 | 0.5 | - | 2.4 |
| 92 | - | 1.1 | - | 4.4 | 1.2 |
| 140 | 1.7 | 1.0 | 0.5 | 0.2 | 1.3 |
| 148 | 1.0* | 1.0 | 0.5 | 0.0 | 1.8 |
| 217 | 1.5 | 1.5 | 3.5 | 0.0 | 0.7 |
| 292 | 2.0 | 1.6 | 7.5 | - | - |
| 368 | 3.5 | 1.7 | 1.0 | 1.7 | 1.6 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 1.3 | <0.5 | 0.0 | 1.2 |
| 10 | 1.3 | 0.8 | 1.0 | 0.0 | 2.3 |
| 20 | 1.4 | 1.0 | 0.0 | 0.0 | 2.0 |
| 30 | 1.4 | 0.7 | <0.5 | - | 2.2 |
| 50 | 1.5 | 0.4 | 0.5 | - | 2.3 |
| 75 | 1.5 | 0.8 | 0.5 | - | 1.7 |
| 100 | 1.6 | 1.1 | 0.5 | 4.4 | 1.2 |
| 150 | 1.7 | 1.0 | 0.5 | 0.0 | 1.8 |
| 200 | 1.6 | 1.4 | 3.0 | 0.0 | 1.0 |
| 250 | 1.7 | 1.5 | 5.5 | 0.4 | 0.9 |
| 300 | 2.0 | 1.6 | 7.5 | 1.0 | 1.2 |

STATION 28

DATE June 27, 1954 LAT. 30°21'N. LONG. 79°26'W. TIME 05
 DEPTH 750 WIND 7, 23 BAR. 15 AIR TEMP: dry 28.3°C, wet 26.7°C
 HUMIDITY 88% WEATHER 02 CLOUDS: type -, amt. 1 SEA: dir. 23, amt. 3
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.39 | 36.01 | 23.05 | 4.52 |
| 8 | 28.45 | 36.09 | 23.09 | 4.52 |
| 15 | 28.25 | 36.09 | 23.15 | 4.56 |
| 40 | 27.68 | 36.06 | 23.32 | 4.65 |
| 80 | 25.33 | 36.30 | 24.24 | - |
| 120 | 23.54 | 36.61 | 25.02 | 4.75 |
| 160 | 21.61 | 34.90* | 24.27 | 4.50 |
| 245 | 19.51 | 34.90* | 24.83 | 4.18 |
| 330 | 17.53 | 34.90* | 25.33 | 3.66 |
| 498 | 14.10 | 35.83 | 26.82 | 3.22 |
| 583 | 12.63 | 35.58 | 26.93 | 3.15 |

*Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.39 | 36.01 | 23.05 | 4.52 |
| 10 | 28.39 | 36.09 | 23.11 | 4.53 |
| 20 | 28.19 | 36.07 | 23.16 | 4.58 |
| 30 | 27.99 | 36.06 | 23.22 | 4.62 |
| 50 | 27.04 | 36.11 | 23.56 | 4.67 |
| 75 | 25.59 | 36.27 | 24.14 | 4.71 |
| 100 | 24.45 | 36.46 | 24.63 | 4.74 |
| 150 | 22.04 | 36.57 | 25.42 | 4.56 |
| 200 | 20.61 | 36.49 | 25.75 | 4.26 |
| 250 | 19.39 | 36.40 | 26.01 | 4.00 |
| 300 | 18.21 | 36.31 | 26.24 | 3.77 |
| 400 | 16.02 | 36.08 | 26.59 | 3.43 |
| 500 | 14.06 | 35.82 | 26.83 | 3.22 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.5 | <0.5 | 0.0 | 1.2 |
| 8 | 0.9 | - | <0.5 | 0.0 | - |
| 15 | 0.7 | 0.3 | <0.5 | 12.2 | 2.8 |
| 40 | 2.5 | 0.5 | 0.5 | 2.6 | 1.4 |
| 80 | 2.3 | - | 0.5 | 0.4 | 1.4 |
| 120 | 0.7 | 0.2 | 1.0 | 1.5 | 1.7 |
| 160 | 2.1 | 0.4 | <0.5 | 0.0 | 2.8 |
| 245 | 0.8 | 0.9 | 0.5 | 1.5 | 1.4 |
| 330 | 1.7 | 0.8 | 4.5 | 0.7 | 0.6 |
| 498 | 1.4 | 1.5 | 9.5 | 3.8 | 2.1 |
| 583 | 2.7 | 1.6 | 19.0 | 0.6 | 0.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 0.5 | <0.5 | 0.0 | 1.2 |
| 10 | 0.8 | 0.4 | <0.5 | 0.0 | 2.3 |
| 20 | 1.0 | 0.4 | 0.5 | 12.2 | 2.5 |
| 30 | 1.8 | 0.4 | 0.5 | - | 2.0 |
| 50 | 2.5 | 0.5 | 0.5 | 2.0 | 1.4 |
| 75 | 2.4 | 0.4 | 0.5 | 0.7 | 1.4 |
| 100 | 1.5 | 0.3 | 1.0 | 1.0 | 1.6 |
| 150 | 1.8 | 0.4 | 0.5 | 0.4 | 2.5 |
| 200 | 1.5 | 0.6 | 0.5 | 0.8 | 2.2 |
| 250 | 0.9 | 0.9 | 0.5 | 1.5 | 1.4 |
| 300 | 1.4 | 0.9 | 3.0 | 1.0 | 0.9 |
| 400 | 1.6 | 1.1 | 6.5 | 2.0 | 1.3 |
| 500 | 1.4 | 1.5 | 9.5 | 3.8 | 2.1 |

STATION 29

DATE June 27, 1954 LAT. 30°58'N. LONG. 79°14'W. TIME 10
 DEPTH 750 WIND 9, 26 BAR. 14 AIR TEMP: dry 27.8°C, wet 26.7°C
 HUMIDITY 92% WEATHER 02 CLOUDS: type -, amt. - SEA: dir. 26, amt. 3
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.86 | 35.78 | 23.05 | 4.62 |
| 7 | 27.91 | 35.77 | 23.02 | 4.56 |
| 13 | 27.87 | 35.77 | 23.04 | 4.62 |
| 34 | 27.64 | 35.77 | 23.11 | 4.64 |
| 70 | 26.57 | 36.13 | 23.73 | 4.65 |
| 73 | 26.12 | 36.16 | 23.89 | 4.54 |
| 84 | 24.74 | 36.48 | 24.56 | 4.23 |
| 129 | 21.62 | 36.68 | 25.62 | 4.15 |
| 175 | 20.23 | 36.69 | 26.01 | 4.38 |
| 269 | 18.21 | 36.51 | 26.39 | 4.23 |
| 315 | 16.91 | 36.15 | 26.44 | 3.60 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.86 | 35.78 | 23.05 | 4.62 |
| 10 | 27.89 | 35.77 | 23.03 | 4.59 |
| 20 | 27.83 | 35.77 | 23.05 | 4.63 |
| 30 | 27.71 | 35.77 | 23.09 | 4.64 |
| 50 | 27.16 | 35.93 | 23.39 | 4.64 |
| 75 | 25.85 | 36.23 | 24.03 | 4.48 |
| 100 | 23.43 | 36.57 | 25.02 | 4.17 |
| 150 | 20.95 | 36.69 | 25.81 | 4.28 |
| 200 | 19.78 | 36.64 | 26.09 | 4.34 |
| 250 | 18.69 | 36.61 | 26.35 | 4.26 |
| 300 | 17.36 | 36.29 | 26.43 | 3.85 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | 0.1 | 1.0 | 2.4 | 1.3 |
| 7 | 0.9 | 0.5 | 0.5 | 0.0 | 1.2 |
| 13 | 3.8 | 0.7 | 0.5 | 0.1 | 1.0 |
| 34 | 0.9 | 0.4 | 1.5 | 0.0 | 1.1 |
| 70 | 1.5 | 0.4 | 0.5 | - | 1.3 |
| 73 | 3.7 | 0.5 | 0.5 | 0.0 | 3.1 |
| 84 | 1.6 | 0.4 | 2.0 | 0.9 | 1.1 |
| 129 | 2.1 | 0.4 | 0.5 | 0.0 | 2.3 |
| 175 | 2.0 | 0.3 | 2.5 | 0.0 | 2.7 |
| 269 | 2.6 | 0.6 | 0.5 | 1.4 | 1.4 |
| 315 | 2.3 | 2.1 | 6.5 | 6.3 | 1.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | 0.1 | 1.0 | 2.4 | 1.3 |
| 10 | 2.4 | 0.6 | 0.5 | 0.1 | 1.1 |
| 20 | 2.8 | 0.6 | 1.0 | 0.1 | 1.0 |
| 30 | 1.5 | 0.5 | 1.5 | 0.0 | 1.1 |
| 50 | 1.2 | 0.4 | 1.0 | 0.0 | 1.2 |
| 75 | 3.3 | 0.5 | 1.0 | 0.1 | 2.7 |
| 100 | 1.8 | 0.4 | 1.5 | 0.6 | 1.5 |
| 150 | 2.1 | 0.4 | 1.5 | 0.0 | 2.5 |
| 200 | 2.2 | 0.4 | 2.0 | 0.4 | 2.4 |
| 250 | 2.5 | 0.5 | 1.0 | 1.2 | 1.6 |
| 300 | 2.4 | 1.7 | 4.5 | 4.7 | 1.6 |

STATION 30

DATE June 27, 1954 LAT. 30°58'N. LONG. 79°38'W. TIME 16
 DEPTH 539 WIND 8, 24 BAR. 15 AIR TEMP: dry 27.8°C, wet 26.1°C
 HUMIDITY 88% WEATHER 05 CLOUDS: type 2, amt. 2 SEA: dir. 26, amt. 3
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.65 | 36.10 | 23.03 | 4.55 |
| 8 | 28.68 | 36.07 | 23.00 | 4.64 |
| 15 | 28.48 | 36.06 | 23.05 | 4.62 |
| 36 | 26.94 | 36.03 | 23.53 | 4.66 |
| 70 | 25.11 | 36.44 | 24.42 | 4.65 |
| 108 | 22.94 | 36.43 | 25.05 | 4.80 |
| 142 | 21.21 | 36.35 | 25.48 | 4.42 |
| 216 | 17.55 | 36.35 | 26.43 | 3.44 |
| 291 | 14.16 | 36.13 | 27.04 | 3.06 |
| 368 | 11.00 | 35.29* | 27.02 | 2.90 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.65 | 36.10 | 23.03 | 4.55 |
| 10 | 28.64 | 36.07 | 23.01 | 4.63 |
| 20 | 28.08 | 36.03 | 23.16 | 4.63 |
| 30 | 27.35 | 36.04 | 23.41 | 4.65 |
| 50 | 26.20 | 36.25 | 23.93 | 4.66 |
| 75 | 24.81 | 36.44 | 24.51 | 4.70 |
| 100 | 23.38 | 36.44 | 24.93 | 4.77 |
| 150 | 20.80 | 36.35 | 25.59 | 4.29 |
| 200 | 18.31 | 36.35 | 26.25 | 3.60 |
| 250 | 15.97 | 36.32 | 26.79 | 3.19 |
| 300 | 13.77 | - | - | - |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.7 | 0.6 | 0.0 | 1.1 | 0.4 |
| 8 | 1.5 | 1.2 | <0.5 | 2.8 | 0.8 |
| 15 | 1.7 | 0.3 | <0.5 | 0.0 | - |
| 36 | 1.4 | 0.6 | <0.5 | 0.1 | 1.6 |
| 70 | 1.4 | 0.4 | 0.5 | 0.2 | 1.5 |
| 108 | 1.3 | 0.6 | 0.5 | - | - |
| 142 | 3.7 | 0.4 | - | 5.1 | 1.6 |
| 221 | 2.0 | 1.0 | 3.0 | 0.8 | 0.8 |
| 291 | 2.5 | 1.6 | 10.0 | 0.8 | 0.2 |
| 368 | 2.6 | 2.6 | 2.0 | - | 1.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.7 | 0.6 | 0.0 | 1.1 | 0.4 |
| 10 | 1.6 | 1.0 | <0.5 | 2.0 | 0.9 |
| 20 | 1.7 | 0.4 | <0.5 | 0.0 | 1.2 |
| 30 | 1.5 | 0.5 | <0.5 | 0.1 | 1.5 |
| 50 | 1.4 | 0.5 | <0.5 | 0.2 | 1.6 |
| 75 | 1.4 | 0.5 | 0.5 | 0.5 | 1.5 |
| 100 | 1.3 | 0.6 | 0.5 | 2.3 | 1.5 |
| 150 | 3.5 | 0.5 | 1.5 | 4.7 | 1.5 |
| 200 | 2.5 | 0.8 | 2.5 | 2.0 | 1.0 |
| 250 | 2.2 | 1.3 | 6.0 | 0.8 | 0.6 |
| 300 | 2.5 | 1.6 | 10.0 | 0.8 | 0.2 |

STATION 31

DATE June 27, 1954 LAT. 31°00'N. LONG. 80°00'W. TIME 20
 DEPTH 56 WIND 5, 26 BAR. 13 AIR TEMP: dry 28.9°C, wet 27.2°C
 HUMIDITY 88% WEATHER 05 CLOUDS: type 2, amt. 1 SEA: dir. 26, amt. 3
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.94 | 36.04 | 23.22 | 4.57 |
| 10 | 27.74 | 35.97 | 23.23 | 4.61 |
| 20 | 27.42 | 36.02 | 23.37 | 4.61 |
| 50 | 22.84 | 36.18 | 24.89 | 4.40 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.94 | 36.04 | 23.22 | 4.57 |
| 10 | 27.74 | 35.97 | 23.23 | 4.61 |
| 20 | 27.42 | 36.02 | 23.37 | 4.61 |
| 30 | 26.50 | 36.07 | 23.70 | 4.57 |
| 50 | 22.84 | 36.18 | 24.89 | 4.40 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.5 | 0.3 | 0.5 | 0.0 | 0.6 |
| 10 | 2.6 | 1.0 | 1.0 | - | 1.3 |
| 20 | - | 0.7 | 0.5 | 0.0 | 0.5 |
| 50 | 0.8 | 0.4 | 0.0 | 0.2 | 1.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.5 | 0.3 | 0.5 | 0.0 | 0.6 |
| 10 | 2.6 | 1.0 | 1.0 | 0.0 | 1.3 |
| 20 | 2.2 | 0.7 | 0.5 | 0.0 | 0.5 |
| 30 | 1.8 | 0.6 | <0.5 | <0.1 | 0.8 |
| 50 | 0.8 | 0.4 | 0.0 | 0.2 | 1.3 |

STATION 32

DATE June 27, 1954 LAT. 31°00' N. LONG. 80°23'W. TIME 23
 DEPTH 42 WIND 5, 19 BAR. 12 AIR TEMP: dry 27.8°C, wet 27.2°C
 HUMIDITY 96% WEATHER 05 CLOUDS: type -, amt. - SEA: dir. 22, amt. 2
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.52 | 35.79 | 23.17 | 4.50 |
| 10 | 26.73 | 35.68 | 23.34 | 4.74 |
| 20 | 25.56 | 35.93 | 23.89 | 4.81 |
| 30 | 25.45 | 36.04 | 24.01 | 4.73 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.52 | 35.79 | 23.17 | 4.50 |
| 10 | 26.73 | 35.68 | 23.34 | 4.74 |
| 20 | 25.56 | 35.93 | 23.89 | 4.81 |
| 30 | 25.45 | 36.04 | 24.01 | 4.73 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.2 | 0.4 | <0.5 | 2.0 | 1.4 |
| 10 | 1.2 | - | 0.5 | 0.0 | 0.6 |
| 20 | 1.4 | 0.3 | 0.5 | 0.6 | 0.7 |
| 30 | 1.5 | 0.3 | 0.5 | 2.7 | 1.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.2 | 0.4 | <0.5 | 2.0 | 1.4 |
| 10 | 1.2 | 0.4 | 0.5 | 0.0 | 0.6 |
| 20 | 1.4 | 0.3 | 0.5 | 0.6 | 0.7 |
| 30 | 1.5 | 0.3 | 0.5 | 2.7 | 1.6 |

STATION 33

DATE June 28, 1954 LAT. 31°00'N. LONG. 80°46'W. TIME 02
 DEPTH 21 WIND 8, 16 BAR. 13 AIR TEMP: dry 28.3°C, wet 27.2°C
 HUMIDITY 92% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 16, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.61 | 35.02 | 22.56 | 4.65 |
| 10 | 26.79 | 35.10 | 22.88 | 4.76 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.61 | 35.02 | 22.56 | 4.65 |
| 10 | 26.79 | 35.10 | 22.88 | 4.76 |

STATION 33

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 3.7 | 1.1 | 1.5 | 0.3 | 1.6 |
| 10 | 1.6 | 0.6 | 0.5 | 0.0 | 1.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 3.7 | 1.1 | 1.5 | 0.3 | 1.6 |
| 10 | 1.6 | 0.6 | 0.5 | 0.0 | 1.9 |

STATION 34

DATE June 28, 1954 LAT. 31°00'N. LONG. 81°08'W. TIME 05
 DEPTH 12 WIND 11, 22 BAR. 13 AIR TEMP: dry 29.4°C, wet 27.2°C
 HUMIDITY 84% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 25, amt. 2
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.82 | 34.78 | 22.31 | 4.66 |
| 10 | 27.82 | 34.78 | 22.31 | 4.71 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.82 | 34.78 | 22.31 | 4.66 |
| 10 | 27.82 | 34.78 | 22.31 | 4.71 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g}^3\text{ at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 1 | 2.6 | 1.5 | 0.0 | 0.5 | 1.1 |
| 10 | 1.4 | 0.6 | 1.0 | - | 3.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g}^3\text{ at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 0 | 2.6 | 1.5 | 0.0 | 0.5 | 1.1 |
| 10 | 1.4 | 0.6 | 1.0 | - | 3.2 |

STATION 35

DATE July 2, 1954 LAT. 31°21'N. LONG. 80°53'W. TIME 06
 DEPTH 15 WIND 3, 20 BAR. 21 AIR TEMP: dry 28.3°C, wet 26.1°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type -, amt. - SEA: dir. -, amt. -
 SWELL: dir. 20, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.03 | 34.52 | 22.05 | 4.76 |
| 10 | 27.99 | 34.61 | 22.13 | 4.52 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.03 | 34.52 | 22.05 | 4.76 |
| 10 | 27.99 | 34.61 | 22.13 | 4.52 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.6 | 0.5 | - | 1.1 |
| 10 | 1.1 | 0.6 | <0.5 | - | 0.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.6 | 0.5 | - | 1.1 |
| 10 | 1.1 | 0.6 | <0.5 | - | 0.3 |

STATION 36

DATE July 2, 1954 LAT. 31°42'N. LONG. 80°36'W. TIME 09
 DEPTH 18 WIND 3, 20 BAR. 21 AIR TEMP: dry 27.8°C, wet 26.1°C
 HUMIDITY 88% WEATHER 02 CLOUDS: type -, amt. 0 SEA: dir. -, amt. -
 SWELL: dir. 20, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.58 | 34.20 | 21.95 | 4.73 |
| 10 | 27.61 | 34.42 | 22.11 | 4.74 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.58 | 34.20 | 21.95 | 4.73 |
| 10 | 27.61 | 34.42 | 22.11 | 4.74 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.5 | 0.2 | 0.0 | - | 1.1 |
| 10 | 0.9 | 0.2 | 0.0 | 0.2 | 0.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.5 | 0.2 | 0.0 | - | 1.1 |
| 10 | 0.9 | 0.2 | 0.0 | 0.2 | 0.3 |

STATION 37

DATE July 2, 1954 LAT. 31°38'N. LONG. 80°15'W. TIME 12
 DEPTH 31 WIND 0, 00 BAR. 22 AIR TEMP: dry 29.4°C, wet 26.7°C
 HUMIDITY 79% WEATHER - CLOUDS: type 4, amt. 1 SEA: dir. -, amt. -
 SWELL: dir. 18, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.41 | 35.40 | 22.91 | 4.74 |
| 10 | 26.68 | 35.57 | 23.27 | 4.72 |
| 20 | 26.47 | 35.73 | 23.46 | 4.71 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.41 | 35.40 | 22.91 | 4.74 |
| 10 | 26.68 | 35.57 | 23.27 | 4.72 |
| 20 | 26.47 | 35.73 | 23.46 | 4.71 |

STATION 37

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.3 | 0.0 | - | - |
| 10 | 3.6 | 0.6 | 0.0 | - | 0.1 |
| 20 | 0.8 | 0.4 | <0.5 | - | 1.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.3 | 0.0 | - | - |
| 10 | 3.6 | 0.6 | 0.0 | - | 0.1 |
| 20 | 0.8 | 0.4 | <0.5 | - | 1.0 |

STATION 38

DATE July 2, 1954 LAT. 31°36'N. LONG. 79°52'W. TIME 15
 DEPTH 49 WIND 0, 00 BAR. 23 AIR TEMP: dry 30.0°C, wet 27.2°C
 HUMIDITY 81% WEATHER 02 CLOUDS: type 8, amt. 1 SEA: dir. -, amt. -
 SWELL: dir. 18, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.52 | 36.17 | 23.45 | 4.57 |
| 10 | 27.37 | 36.08 | 23.43 | 4.71 |
| 20 | 26.89 | 36.08 | 23.59 | 4.62 |
| 30 | 25.71 | 36.18 | 24.03 | 4.65 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.52 | 36.17 | 23.45 | 4.57 |
| 10 | 27.37 | 36.08 | 23.43 | 4.71 |
| 20 | 26.89 | 36.08 | 23.59 | 4.62 |
| 30 | 25.71 | 36.18 | 24.03 | 4.65 |

STATION 38

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.5 | 0.0 | - | 0.2 |
| 10 | 0.9 | 0.5 | <0.5 | - | 1.1 |
| 20 | 1.3 | 0.3 | 0.0 | 0.0 | 0.8 |
| 30 | 1.2 | 0.1 | 0.0 | 0.3 | 0.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.5 | 0.0 | - | 0.2 |
| 10 | 0.9 | 0.5 | <0.5 | - | 1.1 |
| 20 | 1.3 | 0.3 | 0.0 | 0.0 | 0.8 |
| 30 | 1.2 | 0.1 | 0.0 | 0.3 | 0.6 |

STATION 39

DATE July 2, 1954 LAT. 31°32'N. LONG. 79°28'W. TIME 18
 DEPTH 493 WIND 0, 00 BAR. 23 AIR TEMP: dry 29.4°C, wet 26.1°C
 HUMIDITY 76% WEATHER 03 CLOUDS: type 8, amt. 2 SEA: dir. -, amt. 1
 SWELL: dir. 06, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.79 | 35.78 | 22.74 | 4.49 |
| 8 | 28.10 | 35.78 | 22.97 | 4.49 |
| 17 | 27.85 | 35.84 | 23.10 | 4.57 |
| 43 | 26.26 | 36.49 | 24.10 | 4.71 |
| 85 | 22.01 | 36.40 | 25.30 | 4.40 |
| 128 | 17.94 | 35.91 | 26.00 | 3.32 |
| 171 | 15.82 | 35.97 | 26.55 | 3.07 |
| 258 | 12.13 | 35.50 | 26.97 | 2.94 |
| 346 | 9.61 | 35.10 | 27.12 | 2.92 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.79 | 35.78 | 22.74 | 4.49 |
| 10 | 28.06 | 35.79 | 22.99 | 4.51 |
| 20 | 27.71 | 35.94 | 23.22 | 4.60 |
| 30 | 27.15 | 36.23 | 23.62 | 4.67 |
| 50 | 25.53 | 36.48 | 24.32 | 4.66 |
| 75 | 23.00 | 36.46 | 25.06 | 4.54 |
| 100 | 20.37 | 36.17 | 25.57 | 3.93 |
| 150 | 16.83 | 35.96 | 26.31 | 3.18 |
| 200 | 14.46 | 35.81 | 26.73 | 3.01 |
| 250 | 12.42 | 35.54 | 26.94 | 2.95 |
| 300 | 10.78 | 35.30 | 27.07 | 2.93 |

STATION 39

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | 0.2 | <0.5 | - | 1.3 |
| 8 | 0.9 | 1.0 | 0.5 | - | 1.2 |
| 17 | 1.6 | 0.3 | 0.5 | 0.9 | 1.5 |
| 41 | 1.5 | - | 0.0 | 0.0 | 0.3 |
| 85 | 0.8 | 0.4 | 1.0 | - | 0.0 |
| 128 | 1.7 | 1.1 | <0.5 | - | 0.6 |
| 171 | 2.1 | 1.6 | 3.0 | 1.5 | 3.7 |
| 258 | 2.3 | 1.0 | 10.0 | 3.8 | 0.9 |
| 346 | 2.5 | 1.6 | 3.5 | 1.5 | 0.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | 0.2 | <0.5 | - | 1.3 |
| 10 | 1.1 | 0.8 | 0.5 | - | 1.3 |
| 20 | 1.6 | 0.3 | 0.5 | 0.8 | 1.3 |
| 30 | 1.5 | 0.3 | <0.5 | 0.4 | 0.8 |
| 50 | 1.4 | 0.4 | <0.5 | - | 0.3 |
| 75 | 1.0 | 0.4 | 1.0 | - | 0.1 |
| 100 | 1.1 | 0.7 | 1.0 | - | 0.2 |
| 150 | 1.9 | 1.4 | 1.5 | - | 2.2 |
| 200 | 2.2 | 1.4 | 5.5 | 2.3 | 2.8 |
| 250 | 2.3 | 1.1 | 9.5 | 3.6 | 1.2 |
| 300 | 2.4 | 1.3 | 7.0 | 2.7 | 0.9 |

STATION 40

DATE July 2, 1954 LAT. 31°28'N. LONG. 78°43'W. TIME 22
 DEPTH 585 WIND 3, 08 BAR. 21 AIR TEMP: dry 29.4°C, wet 25.0°C
 HUMIDITY 69% WEATHER 03 CLOUDS: type 4, amt. 1 SEA: dir. -, amt. -
 SWELL: dir. 06, amt. 3 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 29.64 | 35.93 | 22.57 | - |
| 8 | 28.28 | 35.88 | 22.99 | 4.65 |
| 16 | 28.24 | 35.90 | 23.01 | 4.67 |
| 40 | 27.58 | 36.02 | 23.32 | 4.76 |
| 82 | 25.28 | 36.13 | 24.13 | 4.69 |
| 123 | 22.36 | 36.56 | 25.32 | 4.81 |
| 165 | 21.44 | 36.66 | 25.65 | 4.06 |
| 250 | 17.91 | 36.44 | 26.41 | 4.42 |
| 337 | 16.19 | 36.13 | 26.59 | 3.84 |
| 424 | 14.25 | 35.77 | 26.75 | 3.74 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 29.64 | 35.93 | 22.57 | - |
| 10 | 28.28 | 35.88 | 22.99 | 4.66 |
| 20 | 28.16 | 35.92 | 23.05 | 4.69 |
| 30 | 27.91 | 35.98 | 23.18 | 4.73 |
| 50 | 27.10 | 36.02 | 23.47 | 4.73 |
| 75 | 25.71 | 36.09 | 23.97 | 4.70 |
| 100 | 23.75 | 36.36 | 24.76 | 4.74 |
| 150 | 21.83 | 36.64 | 25.53 | 4.26 |
| 200 | 19.77 | 36.58 | 26.05 | 4.32 |
| 250 | 17.91 | 36.44 | 26.41 | 4.42 |
| 300 | 16.95 | 36.27 | 26.52 | 4.03 |
| 400 | 14.81 | 35.87 | 26.70 | 3.77 |

STATION 40

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.6 | 0.7 | 0.0 | - | 1.2 |
| 8 | 1.0 | 0.5 | <0.5 | - | - |
| 16 | 0.9 | 0.3 | <0.5 | 2.2 | 0.5 |
| 40 | 1.5 | 0.5 | 1.0 | - | 0.8 |
| 82 | 1.2 | 0.5 | 0.0 | - | 1.6 |
| 123 | 0.5 | 0.4 | 0.5 | 0.0 | 1.2 |
| 165 | 1.2 | 0.4 | 2.5 | - | 0.6 |
| 250 | 1.8 | 1.1 | 2.5 | 0.1 | 1.9 |
| 337 | 2.0 | 1.2 | 1.0 | 0.0 | 1.2 |
| 424 | 1.5 | 1.3 | 0.5 | - | 1.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.6 | 0.7 | 0.0 | - | 1.2 |
| 10 | 1.0 | 0.5 | <0.5 | - | 0.8 |
| 20 | 1.0 | 0.3 | 0.5 | 2.2 | 0.5 |
| 30 | 1.3 | 0.4 | 0.5 | - | 0.7 |
| 50 | 1.5 | 0.5 | 1.0 | - | 1.0 |
| 75 | 1.3 | 0.5 | <0.5 | - | 1.5 |
| 100 | 0.9 | 0.5 | <0.5 | - | 1.4 |
| 150 | 1.0 | 0.4 | 2.0 | 0.0 | 0.8 |
| 200 | 1.5 | 0.7 | 2.5 | 0.1 | 1.2 |
| 250 | 1.8 | 1.1 | 2.5 | 0.1 | 1.9 |
| 300 | 1.9 | 1.2 | 1.5 | 0.0 | 1.5 |
| 400 | 1.6 | 1.3 | 0.5 | - | 1.5 |

STATION 41

DATE July 3, 1954 LAT. 31°43'N. LONG. 79°00'W. TIME 04
 DEPTH 561 WIND 3, 12 BAR. 22 AIR TEMP: dry 28.3°C, wet 25.6°C
 HUMIDITY 80% WEATHER 02 CLOUDS: type -, amt. 0 SEA: dir. -, amt. -
 SWELL: dir. 06, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.94 | 35.96 | 22.83 | 4.55 |
| 9 | 28.51 | 35.87 | 22.90 | 4.57 |
| 17 | 28.36 | 35.91 | 22.98 | 4.61 |
| 41 | 26.20 | 36.20 | 23.90 | 4.57 |
| 80 | 23.08 | 36.20 | 24.84 | 4.71 |
| 114 | 18.96 | 36.26 | 26.01 | 3.69 |
| 146 | 15.74 | 35.97 | 26.57 | 3.17 |
| 207 | 12.61 | 35.59 | 26.95 | 2.94 |
| 273 | 11.50* | 35.34 | 26.97 | 2.91 |
| 343 | 9.50 | 35.10 | 27.13 | 3.00 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.94 | 35.96 | 22.83 | 4.55 |
| 10 | 28.50 | 35.87 | 22.90 | 4.58 |
| 20 | 28.15 | 35.96 | 23.06 | 4.60 |
| 30 | 27.22 | 36.11 | 23.44 | 4.58 |
| 50 | 25.47 | 36.20 | 24.01 | 4.60 |
| 75 | 23.52 | 36.20 | 24.52 | 4.69 |
| 100 | 20.56 | 36.23 | 25.19 | 4.05 |
| 150 | 15.45 | 35.94 | 26.17 | 3.15 |
| 200 | 12.84 | 35.62 | 26.90 | 2.96 |
| 250 | 11.40 | 35.42 | 26.94 | 2.92 |
| 300 | 10.30 | 35.24 | 27.02 | 2.93 |

STATION 41

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.5 | 0.5 | 1.7 | 1.6 |
| 9 | 1.0 | 0.4 | 0.0 | 1.6 | 1.3 |
| 18 | 0.8 | 0.2 | - | - | 0.2 |
| 44 | 1.2 | - | 0.0 | 0.0 | 0.7 |
| 89 | 1.0 | - | 0.5 | - | <0.1 |
| 134 | 2.0 | 0.8 | 0.5 | - | 1.5 |
| 179 | 2.1 | - | 4.5 | - | 1.0 |
| 204 | 1.3 | 1.4 | 3.5 | 0.5 | - |
| 273 | 1.6 | 1.5 | 9.0 | - | 1.0 |
| 343 | 2.6 | 2.2 | 24.0 | - | 0.5 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.5 | 0.5 | 1.7 | 1.6 |
| 10 | 1.0 | 0.4 | 0.0 | 1.6 | 1.3 |
| 20 | 0.9 | 0.2 | 0.0 | 1.2 | 0.2 |
| 30 | 1.0 | 0.3 | 0.0 | 0.8 | 0.4 |
| 50 | 1.2 | 0.4 | <0.5 | 0.0 | 0.6 |
| 75 | 1.1 | 0.5 | 0.5 | - | 0.3 |
| 100 | 1.3 | 0.6 | 0.5 | - | 0.5 |
| 150 | 2.1 | 1.0 | 2.0 | - | 1.3 |
| 200 | 1.3 | 1.4 | 3.5 | 0.5 | 1.0 |
| 250 | 1.5 | 1.5 | 7.0 | - | 1.0 |
| 300 | 2.0 | 1.8 | 15.0 | - | 0.8 |

STATION 42

DATE July 3, 1954 LAT. 31°58'N. LONG. 79°16'W. TIME 08
 DEPTH 128 WIND 3, 26 BAR. 20 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 02 CLOUDS: type -, amt. - SEA: dir. 26, amt. 1
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.46 | 36.02 | 23.36 | 4.64 |
| 10 | 27.47 | 36.04 | 23.37 | 4.57 |
| 20 | 26.43 | 36.04 | 23.70 | 4.66 |
| 50 | 18.69 | 36.47 | 26.24 | 3.32 |
| 100 | 15.08 | 35.94 | 26.70 | 3.09 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.46 | 36.02 | 23.36 | 4.64 |
| 10 | 27.47 | 36.04 | 23.37 | 4.57 |
| 20 | 26.43 | 36.04 | 23.70 | 4.66 |
| 30 | 23.39 | 36.25 | 24.79 | 4.11 |
| 50 | 18.69 | 36.47 | 26.24 | 3.32 |
| 75 | 17.20 | 36.40 | 26.56 | 3.20 |
| 100 | 15.08 | 35.94 | 26.70 | 3.09 |

STATION 42

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.7 | 0.7 | <0.5 | - | 0.4 |
| 10 | - | 0.7 | 0.0 | - | 0.5 |
| 20 | - | - | 0.0 | - | 1.2 |
| 50 | - | 1.1 | 6.5 | 1.4 | 0.7 |
| 100 | 2.0 | 1.9 | 16.0 | - | 0.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.7 | 1.0 | <0.5 | - | 0.4 |
| 10 | - | 0.7 | 0.0 | - | 0.5 |
| 20 | - | 0.8 | 0.0 | - | 1.2 |
| 30 | - | 0.9 | 2.0 | - | 1.0 |
| 50 | - | 1.1 | 6.5 | 1.4 | 0.7 |
| 75 | - | 1.5 | 11.0 | - | 0.3 |
| 100 | 2.0 | 1.9 | 16.0 | - | 0.0 |

STATION 43

DATE July 3, 1954 LAT. 32°12'N. LONG. 79°33'W. TIME 12
 DEPTH 31 WIND 3, 20 BAR. 21 AIR TEMP: dry 27.2°C, wet 26.1°C
 HUMIDITY 87% WEATHER 03 CLOUDS: type 8, amt. 2 SEA: dir. 20, amt. 1
 SWELL: dir. 17, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.51 | 36.10 | 23.40 | 4.32 |
| 10 | 27.50 | 36.11 | 23.41 | 4.48 |
| 20 | 26.98 | 36.13 | 23.60 | 4.57 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.51 | 36.10 | 23.40 | 4.32 |
| 10 | 27.50 | 36.11 | 23.41 | 4.48 |
| 20 | 26.98 | 36.13 | 23.60 | 4.57 |

STATION 43

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.6 | 0.4 | 0.5 | - | 0.0 |
| 10 | 1.0 | 0.2 | 0.0 | - | 0.9 |
| 20 | 1.2 | 0.4 | 0.5 | - | 0.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.6 | 0.4 | 0.5 | - | 0.0 |
| 10 | 1.0 | 0.2 | 0.0 | - | 0.9 |
| 20 | 1.2 | 0.4 | 0.5 | - | 0.9 |

STATION 44

DATE July 3, 1954 LAT. 32°26'N. LONG. 79°48'W. TIME 14
 DEPTH 18 WIND 3, 22 BAR. 21 AIR TEMP: dry 27.8°C, wet 26.1°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type -, amt. 0 SEA: dir. -, amt. 0
 SWELL: dir. 17, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.69 | 35.64 | 23.00 | 4.77 |
| 10 | 27.21 | 35.39 | 22.97 | 4.85 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.69 | 35.64 | 23.00 | 4.77 |
| 10 | 27.21 | 35.39 | 22.97 | 4.85 |

STATION 44

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 1.1 | 0.0 | - | 0.6 |
| 10 | 1.3 | 0.6 | 0.0 | - | 0.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 1.1 | 0.0 | - | 0.6 |
| 10 | 1.3 | 0.6 | 0.0 | - | 0.3 |

STATION 45

DATE July 3, 1954 LAT. 32°40'N. LONG. 79°32'W. TIME 16
 DEPTH 14 WIND 5, 24 BAR. 21 AIR TEMP: dry 28.3°C, wet 26.1°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 8, amt. 2 SEA: dir. 24, amt. 1
 SWELL: dir. 11, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.78 | 34.20 | 21.89 | 4.68 |
| 10 | 27.37 | 35.17 | 22.75 | 4.71 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.78 | 34.20 | 21.89 | 4.68 |
| 10 | 27.37 | 35.17 | 22.75 | 4.71 |

STATION 45

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.3 | 0.2 | 0.0 | - | 0.7 |
| 10 | 2.2 | 0.9 | <0.5 | - | - |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.3 | 0.2 | 0.0 | - | 0.7 |
| 10 | 2.2 | 0.9 | <0.5 | - | - |

STATION 46

DATE July 3, 1954 LAT. 32°54'N. LONG. 79°16'W. TIME 19
 DEPTH 11 WIND 5, 22 BAR. 20 AIR TEMP: dry 31.7°C, wet 27.8°C
 HUMIDITY 74% WEATHER 02 CLOUDS: type 8, amt. 2 SEA: dir. 21, amt. 1
 SWELL: dir. 19, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.56 | - | - | 4.79 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.56 | - | - | 4.79 |

STATION 46

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.6 | 1.5 | - | 1.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 0.6 | 1.5 | - | 1.0 |

STATION 47

DATE July 3, 1954 LAT. 32°40'N. LONG. 79°00'W. TIME 22
 DEPTH 25 WIND 6, 18 BAR. 19 AIR TEMP: dry 28.3°C, wet 26.1°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type 8, amt. 2 SEA: dir. 22, amt. 2
 SWELL: dir. 19, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.94 | - | - | 4.72 |
| 10 | 27.37 | 36.03 | 23.40 | 4.80 |
| 20 | 26.87 | 35.90 | 23.46 | 4.80 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.94 | - | - | 4.72 |
| 10 | 27.37 | 36.03 | 23.40 | 4.80 |
| 20 | 26.87 | 35.90 | 23.46 | 4.80 |

STATION 47

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.5 | 1.0 | - | 1.3 |
| 10 | 2.2 | 0.6 | 0.0 | - | 1.0 |
| 20 | 1.6 | 0.5 | 1.5 | 0.5 | 0.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 0.5 | 1.0 | - | 1.3 |
| 10 | 2.2 | 0.6 | 0.0 | - | 1.0 |
| 20 | 1.6 | 0.5 | 1.5 | 0.5 | 0.9 |

STATION 48

DATE July 4, 1954 LAT. 32°26'N. LONG. 78°43'W. TIME 01
 DEPTH 237 WIND 4, 18 BAR. 19 AIR TEMP: dry 28.3°C, wet 26.1°C
 HUMIDITY 84% WEATHER 02 CLOUDS: type 8, amt. 2 SEA: dir. 22, amt. 2
 SWELL: dir. 19, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.63 | 36.58 | 23.72 | 4.70 |
| 10 | 27.25 | 36.08 | 23.47 | 4.72 |
| 20 | 26.89 | 36.16 | 23.65 | 4.77 |
| 50 | 22.44 | 36.44 | 25.21 | 4.59 |
| 100 | 16.35 | 35.86 | 26.35 | 3.36 |
| 150 | 14.27 | 35.71 | 26.70 | 3.43 |
| 200 | 12.86 | 35.62 | 26.92 | 3.25 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.63 | 36.58 | 23.72 | 4.70 |
| 10 | 27.25 | 36.08 | 23.47 | 4.72 |
| 20 | 26.89 | 36.16 | 23.65 | 4.77 |
| 30 | 25.34 | 36.31 | 24.25 | 4.76 |
| 50 | 22.44 | 36.44 | 25.21 | 4.59 |
| 75 | 18.89 | 36.10 | 25.91 | 3.81 |
| 100 | 16.35 | 35.86 | 26.35 | 3.36 |
| 150 | 14.27 | 35.71 | 26.70 | 3.43 |
| 200 | 12.86 | 35.62 | 26.92 | 3.25 |

STATION 48

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.8 | 0.6 | 0.5 | - | 1.4 |
| 10 | 0.8 | - | 0.0 | 2.4 | 1.1 |
| 20 | 1.3 | 0.5 | <0.5 | - | 1.1 |
| 50 | 1.2 | 0.6 | 0.0 | 0.0 | 1.7 |
| 100 | - | 2.0 | - | 0.2 | 0.6 |
| 150 | 2.4 | 2.0 | 14.5 | 2.6 | 0.0 |
| 200 | - | 2.2 | 5.5 | 0.0 | 0.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.8 | 0.6 | 0.5 | - | 1.4 |
| 10 | 0.8 | 0.6 | 0.0 | 2.4 | 1.1 |
| 20 | 1.3 | 0.5 | <0.5 | 1.8 | 1.1 |
| 30 | 1.3 | 0.5 | <0.5 | 1.2 | 1.3 |
| 50 | 1.2 | 0.6 | 0.0 | 0.0 | 1.7 |
| 75 | 1.6 | 1.3 | - | 0.1 | 1.2 |
| 100 | 1.8 | 2.0 | - | 0.2 | 0.6 |
| 150 | 2.4 | 2.0 | 14.5 | 2.6 | 0.0 |
| 200 | - | 2.2 | 5.5 | 0.0 | 0.1 |

STATION 49

DATE July 4, 1954 LAT. 32°10'N. LONG. 78°28'W. TIME 04
 DEPTH 365 WIND 4, 21 BAR. 20 AIR TEMP: dry 28.3°C, wet 25.6°C
 HUMIDITY 84% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 21, amt. -
 SWELL: dir. 19, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.77 | 36.14 | 23.35 | 4.71 |
| 10 | 27.65 | 36.22 | 23.45 | 4.73 |
| 20 | 27.27 | 36.44 | 23.74 | 4.79 |
| 50 | 22.90 | 36.08 | 24.80 | 4.62 |
| 100 | 17.59 | - | - | 3.53 |
| 150 | 15.56 | 36.08 | 26.70 | 3.95 |
| 200 | 13.58 | 35.75 | 26.87 | 3.36 |
| 300 | 10.34 | 35.32 | 27.16 | 3.17 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.77 | 36.14 | 23.35 | 4.71 |
| 10 | 27.65 | 36.22 | 23.45 | 4.73 |
| 20 | 27.27 | 36.44 | 23.74 | 4.79 |
| 30 | 25.71 | 36.30 | 24.13 | 4.77 |
| 50 | 22.90 | 36.08 | 24.80 | 4.62 |
| 75 | 19.84 | 36.08 | 25.65 | 3.89 |
| 100 | 17.59 | 36.08 | 26.22 | 3.53 |
| 150 | 15.56 | 36.08 | 26.70 | 3.95 |
| 200 | 13.58 | 35.75 | 26.87 | 3.36 |
| 250 | 11.84 | 35.50 | 27.03 | 3.26 |
| 300 | 10.34 | 35.32 | 27.16 | 3.17 |

STATION 49

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 0.5 | 1.0 | 0.0 | 0.9 |
| 10 | 0.8 | 0.4 | 0.0 | 1.9 | 1.0 |
| 20 | 1.0 | - | <0.5 | 0.7 | 0.7 |
| 50 | 0.5 | 0.4 | 0.0 | 1.7 | 1.2 |
| 100 | - | 1.1 | 0.5 | 0.0 | 0.7 |
| 150 | - | 1.7 | 7.5 | 3.0 | 1.7 |
| 200 | 2.5 | 1.7 | 0.5* | 0.0 | - |
| 300 | - | 2.0 | 18.0 | 0.2 | 0.2 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 0.5 | 1.0 | 0.0 | 0.9 |
| 10 | 0.8 | 0.4 | 0.0 | 1.9 | 1.0 |
| 20 | 1.0 | 0.4 | <0.5 | 0.7 | 0.7 |
| 30 | 0.8 | 0.4 | <0.5 | 1.0 | 0.9 |
| 50 | 0.5 | 0.4 | 0.0 | 1.7 | 1.2 |
| 75 | 0.9 | 0.8 | <0.5 | 0.8 | 1.0 |
| 100 | 1.2 | 1.1 | 0.5 | 0.0 | 0.7 |
| 150 | 1.9 | 1.7 | 7.5 | 3.0 | 1.7 |
| 200 | 2.5 | 1.7 | 11.0 | 0.0 | - |
| 250 | - | 1.8 | 14.5 | 0.1 | - |
| 300 | - | 2.0 | 18.0 | 0.2 | 0.2 |

STATION 50

DATE July 4, 1954 LAT. 31°56'N. LONG. 78°08'W. TIME 08
 DEPTH 677 WIND 6, 17 BAR. 20 AIR TEMP: dry 27.8°C, wet 25.0°C
 HUMIDITY 80% WEATHER 00 CLOUDS: type -, amt. 2 SEA: dir. 20, amt. 2
 SWELL: dir. 18, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.63 | 36.10 | 23.03 | - |
| 5 | 28.64 | 36.13 | 23.05 | - |
| 10 | 28.58 | 36.06 | 23.02 | - |
| 25 | 27.22 | 35.92 | 23.36 | - |
| 55 | 25.85 | 36.00 | 23.86 | - |
| 85 | 25.04 | 36.35 | 24.37 | - |
| 115 | 18.30 | 36.20 | 26.13 | - |
| 170 | 15.44 | 35.96 | 26.63 | - |
| 230 | 13.35 | 35.71 | 26.89 | - |
| 285 | 11.42 | 35.50 | 27.11 | - |
| 345 | 9.58 | 35.20 | 27.20 | - |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.63 | 36.10 | 23.03 | - |
| 10 | 28.58 | 36.06 | 23.02 | - |
| 20 | 27.62 | 35.95 | 23.25 | - |
| 30 | 26.95 | 35.93 | 23.46 | - |
| 50 | 26.04 | 35.97 | 23.77 | - |
| 75 | 25.31 | 36.29 | 24.24 | - |
| 100 | 21.21 | 36.27 | 25.42 | - |
| 150 | 16.38 | 36.05 | 26.48 | - |
| 200 | 14.40 | 35.83 | 26.76 | - |
| 250 | 12.62 | 35.64 | 26.98 | - |
| 300 | 10.93 | 35.43 | 27.14 | - |

STATION 50

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 3.4 | 0.2 | 0.5 | 1.1 | 2.0 |
| 5 | 0.5 | 0.5 | 1.0 | 0.1 | 1.8 |
| 10 | 1.7 | 0.8 | <0.5 | 0.3 | 1.4 |
| 25 | 1.1 | 0.5 | 0.5 | 2.1 | 0.9 |
| 55 | 2.3 | 0.3 | <0.5 | 1.3 | 1.5 |
| 85 | 0.9 | 0.9 | 2.5 | 2.4 | 0.9 |
| 115 | 1.7 | 0.7 | 8.5 | - | 1.5 |
| 170 | 2.4 | 2.1 | 3.5 | - | 1.0 |
| 230 | 2.3 | 1.7 | 3.5 | - | 4.2 |
| 285 | - | 1.9 | 13.0 | 0.0 | - |
| 345 | - | 1.5 | 2.5 | 2.7 | 3.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 3.4 | 0.2 | 0.5 | 1.1 | 2.0 |
| 10 | 1.7 | 0.8 | <0.5 | 0.3 | 1.4 |
| 20 | 1.3 | 0.6 | 0.5 | 1.5 | 1.0 |
| 30 | 1.3 | 0.5 | 0.5 | 2.0 | 1.0 |
| 50 | 2.1 | 0.3 | <0.5 | 1.4 | 1.4 |
| 75 | 1.4 | 0.7 | 2.0 | 2.0 | 1.1 |
| 100 | 1.4 | 0.8 | 5.5 | - | 1.2 |
| 150 | 2.1 | 1.6 | 5.5 | - | 1.2 |
| 200 | 2.4 | 2.0 | 3.5 | - | 2.6 |
| 250 | 2.3 | 1.8 | 7.0 | - | 4.0 |
| 300 | - | 1.8 | 10.5 | 0.7 | 3.5 |

STATION 51

DATE July 4, 1954 LAT. 32°20'N. LONG. 77°33'W. TIME 13
 DEPTH 594 WIND 8, 24 BAR. 19 AIR TEMP: dry 28.3°C, wet 25.6°C
 HUMIDITY 80% WEATHER 03 CLOUDS: type 2, amt. 3 SEA: dir. 24, amt. 3
 SWELL: dir. 18, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.42 | 36.06 | 23.40 | 4.68 |
| 9 | 27.46 | 36.04 | 23.37 | 4.76 |
| 15 | 27.42 | 36.04 | 23.39 | 4.76 |
| 39 | 22.95 | 36.23 | 24.90 | 5.15 |
| 79 | 17.87 | 36.11 | 26.17 | 3.85 |
| 119 | 14.36 | 35.82 | 26.76 | 3.15 |
| 160 | 12.71 | 35.60 | 26.93 | 3.12 |
| 242 | 10.27 | 35.25 | 27.12 | 3.10 |
| 326 | 8.97 | 35.11 | 27.23 | 3.12 |
| 416 | 7.38 | 35.01 | 27.39 | 3.83* |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.42 | 36.06 | 23.40 | 4.68 |
| 10 | 27.45 | 36.04 | 23.38 | 4.76 |
| 20 | 26.40 | 36.10 | 23.76 | 4.91 |
| 30 | 24.50 | 36.18 | 24.40 | 5.11 |
| 50 | 21.40 | 36.21 | 25.32 | 4.73 |
| 75 | 18.31 | 36.13 | 26.08 | 3.95 |
| 100 | 15.79 | 35.95 | 26.54 | 3.40 |
| 150 | 13.09 | 35.65 | 26.90 | 3.13 |
| 200 | 11.38 | 35.40 | 27.04 | 3.11 |
| 250 | 10.15 | 35.23 | 27.12 | 3.10 |
| 300 | 9.39 | 35.15 | 27.19 | 3.11 |
| 400 | 7.68 | 35.02 | 27.36 | - |

STATION 51

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.5 | 0.3 | <0.5 | 0.3 | 0.5 |
| 9 | 1.3 | 0.2 | <0.5 | 0.0 | 0.9 |
| 15 | 0.8 | 0.3 | 0.0 | 0.0 | 1.0 |
| 39 | 1.6 | 0.5 | 0.5 | 2.0 | 1.3 |
| 79 | 0.7 | 0.7 | 0.5 | - | 1.6 |
| 119 | 2.2 | 2.1 | 19.0* | 0.3 | 1.7 |
| 160 | 3.0 | 1.5 | 6.5 | - | 6.3 |
| 242 | 2.5 | 2.0 | 5.5 | - | 0.2 |
| 326 | 2.4 | 2.0 | 14.0 | 1.9 | 1.2 |
| 416 | 1.9 | 1.6 | 4.5 | 1.4 | 0.5 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.5 | 0.3 | <0.5 | 0.3 | 0.5 |
| 10 | 1.3 | 0.2 | <0.5 | 0.0 | 0.9 |
| 20 | 1.0 | 0.4 | <0.5 | 0.4 | 1.1 |
| 30 | 1.3 | 0.5 | 0.5 | 1.3 | 1.2 |
| 50 | 1.4 | 0.6 | 0.5 | 1.8 | 1.4 |
| 75 | 0.8 | 0.7 | 0.5 | 1.2 | 1.6 |
| 100 | 1.5 | 1.5 | 1.5 | 0.7 | 1.7 |
| 150 | 2.8 | 1.7 | 3.5 | - | 5.2 |
| 200 | 2.8 | 1.8 | 6.0 | - | 3.4 |
| 250 | 2.5 | 2.0 | 6.5 | - | 0.3 |
| 300 | 2.5 | 2.0 | 11.5 | - | 0.9 |
| 400 | 2.0 | 1.7 | 6.0 | 1.5 | 0.6 |

STATION 52

DATE July 4, 1954 LAT. 32°35'N. LONG. 77°47'W. TIME 16
 DEPTH 342 WIND 8, 22 BAR. 18 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 01 CLOUDS: type 8, amt. 2 SEA: dir. 24, amt. 3
 SWELL: dir. 18, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.54 | 36.19 | 23.46 | 4.69 |
| 10 | 27.51 | 36.03 | 23.35 | 4.85 |
| 20 | 26.30 | 36.05 | 23.75 | 4.82 |
| 50 | 19.32 | 36.16 | 25.84 | 4.11 |
| 100 | 16.30 | 36.06 | 26.51 | 3.32 |
| 150 | 14.36 | 35.80 | 26.75 | 3.56 |
| 200 | 12.19 | 35.59 | 27.03 | 3.06 |
| 300 | 8.81 | 35.16 | 27.29 | 3.04 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.54 | 36.19 | 23.46 | 4.69 |
| 10 | 27.51 | 36.03 | 23.35 | 4.85 |
| 20 | 26.30 | 36.05 | 23.75 | 4.82 |
| 30 | 23.54 | 36.10 | 24.63 | 4.56 |
| 50 | 19.32 | 36.16 | 25.84 | 4.11 |
| 75 | 17.68 | 36.13 | 26.23 | 3.59 |
| 100 | 16.30 | 36.06 | 26.51 | 3.32 |
| 150 | 14.36 | 35.80 | 26.75 | 3.56 |
| 200 | 12.19 | 35.59 | 27.03 | 3.06 |
| 250 | 10.34 | 35.38 | 27.21 | 3.05 |
| 300 | 8.81 | 35.16 | 27.29 | 3.04 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.8 | 0.6 | 0.5 | 3.3 | 0.0 |
| 10 | - | 0.5 | <0.5 | 1.5 | 0.9 |
| 20 | - | 1.3 | 0.5 | - | 1.3 |
| 50 | 1.4 | 0.7 | 1.5 | - | 0.5 |
| 100 | 2.0 | 1.4 | 3.5 | - | 0.1 |
| 150 | 2.0 | 1.3 | 13.5 | 2.2 | 1.1 |
| 200 | 2.9 | 1.6 | 18.5 | 1.8 | 0.1 |
| 300 | 2.2 | 2.3 | 28.5 | 0.3 | 4.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.8 | 0.6 | 0.5 | 3.3 | 0.0 |
| 10 | - | 0.5 | <0.5 | 1.5 | 0.9 |
| 20 | - | 1.3 | 0.5 | - | 1.3 |
| 30 | - | 1.1 | 1.0 | - | 1.0 |
| 50 | 1.4 | 0.7 | 1.5 | - | 0.5 |
| 75 | 1.7 | 1.0 | 2.5 | - | 0.3 |
| 100 | 2.0 | 1.4 | 3.5 | - | 0.1 |
| 150 | 2.0 | 1.3 | 13.5 | 2.2 | 1.1 |
| 200 | 2.9 | 1.6 | 18.5 | 1.8 | 0.1 |
| 250 | 2.6 | 2.0 | 23.5 | 1.1 | 2.2 |
| 300 | 2.2 | 2.3 | 28.5 | 0.3 | 4.2 |

STATION 53

DATE July 4, 1954 LAT. 32°49'N. LONG. 78°04'W. TIME 20
 DEPTH 173 WIND 8, 24 BAR. 17 AIR TEMP: dry 28.9°C, wet 26.7°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 8, amt. 4 SEA: dir. 24, amt. 3
 SWELL: dir. 18, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.71 | 36.44 | 23.59 | 4.71 |
| 10 | 27.27 | 36.02 | 23.42 | 4.79 |
| 20 | 26.27 | 36.14 | 23.83 | 4.88 |
| 50 | 21.90 | 36.38 | 25.31 | 4.60 |
| 100 | 17.65 | 36.17 | 26.27 | 3.49 |
| 150 | 15.40 | 35.95 | 26.63 | 3.59 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.71 | 36.44 | 23.59 | 4.71 |
| 10 | 27.27 | 36.02 | 23.42 | 4.79 |
| 20 | 26.27 | 36.14 | 23.83 | 4.88 |
| 30 | 24.66 | 36.24 | 24.40 | 4.82 |
| 50 | 21.90 | 36.38 | 25.31 | 4.60 |
| 75 | 19.53 | 36.28 | 25.88 | 3.89 |
| 100 | 17.65 | 36.17 | 26.27 | 3.49 |
| 150 | 15.40 | 35.95 | 26.63 | 3.59 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 0.2 | 0.5 | 0.2 | 0.3 |
| 10 | 0.4 | 0.3 | - | 0.0 | 1.7 |
| 20 | 1.4 | 0.6 | 0.0 | 0.0 | 0.4 |
| 50 | 1.5 | 0.4 | 0.5 | - | 2.2 |
| 100 | 1.8 | 1.1 | 0.0 | 0.6 | 0.6 |
| 150 | 2.1 | 1.2 | 2.0 | - | 0.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 0.2 | 0.5 | 0.2 | 0.3 |
| 10 | 0.4 | 0.3 | <0.5 | 0.0 | 1.7 |
| 20 | 1.4 | 0.6 | 0.0 | 0.0 | 0.4 |
| 30 | 1.4 | 0.6 | <0.5 | 0.1 | 1.0 |
| 50 | 1.5 | 0.4 | 0.5 | 0.2 | 2.2 |
| 75 | 1.7 | 0.8 | <0.5 | 0.4 | 1.4 |
| 100 | 1.8 | 1.1 | 0.0 | 0.6 | 0.6 |
| 150 | 2.1 | 1.2 | 2.0 | - | 0.0 |

STATION 54

DATE July 4, 1954 LAT. 33°03'N. LONG. 78°21'W. TIME 23
 DEPTH 27 WIND 6, 22 BAR. 15 AIR TEMP: dry 25.0°C, wet 24.4°C
 HUMIDITY 96% WEATHER 63 CLOUDS: type 8, amt. 9 SEA: dir. 24, amt. 2
 SWELL: dir. 20, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.53 | 35.67 | 23.07 | 4.79 |
| 10 | 27.51 | 35.68 | 23.09 | 4.77 |
| 20 | 27.06 | 36.00 | 23.47 | 4.83 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.53 | 35.67 | 23.07 | 4.79 |
| 10 | 27.51 | 35.68 | 23.09 | 4.77 |
| 20 | 27.06 | 36.00 | 23.47 | 4.83 |

STATION 54

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 0.2 | 0.5 | 0.8 | 0.9 |
| 10 | 1.2 | 0.3 | 0.5 | 0.4 | 0.8 |
| 20 | 0.5 | 0.3 | 0.0 | 2.1 | - |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 0.2 | 0.5 | 0.8 | 0.9 |
| 10 | 1.2 | 0.3 | 0.5 | 0.4 | 0.8 |
| 20 | 0.5 | 0.3 | 0.0 | 2.1 | - |

STATION 55

DATE July 5, 1954 LAT. 33°18'N. LONG. 78°38'W. TIME 02
 DEPTH 18 WIND 11, 19 BAR. 15 AIR TEMP: dry 26.7°C, wet 25.0°C
 HUMIDITY 87% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 17, amt. 4
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.18 | 35.52 | 23.07 | 4.82 |
| 10 | 27.17 | 35.57 | 23.11 | 4.80 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.18 | 35.52 | 23.07 | 4.82 |
| 10 | 27.17 | 35.57 | 23.11 | 4.80 |

STATION 55

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.8 | 0.5 | 0.4 | 0.5 |
| 10 | 1.0 | 1.0 | 1.0 | 0.1 | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 0.8 | 0.5 | 0.4 | 0.5 |
| 10 | 1.0 | 1.0 | 1.0 | 0.1 | 0.4 |

STATION 56

DATE July 5, 1954 LAT. 33°32'N. LONG. 78°54'W. TIME 05
 DEPTH 9 WIND 6, 25 BAR. 15 AIR TEMP: dry 27.2°C, wet 25.6°C
 HUMIDITY 87% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 23, amt. 3
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.98 | - | - | 4.60 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.98 | - | - | 4.60 |

STATION 56

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.3 | 0.3 | 0.5 | 0.0 | 1.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.3 | 0.3 | 0.5 | 0.0 | 1.4 |

STATION 57

DATE July 5, 1954 LAT. 33°34'N. LONG. 78°24'W. TIME 08
 DEPTH 18 WIND 8, 25 BAR. 14 AIR TEMP: dry 26.1°C, wet 23.9°C
 HUMIDITY 83% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 25, amt. 4
 SWELL: dir. -, amt. - VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.66 | 35.10 | 22.60 | 4.74 |
| 10 | 27.68 | 35.12 | 22.61 | 4.79 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.66 | 35.10 | 22.60 | 4.74 |
| 10 | 27.68 | 35.12 | 22.61 | 4.79 |

STATION 57

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.4 | 0.0 | - | 0.0 |
| 10 | 1.3 | 0.4 | 0.0 | 2.4 | <0.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.4 | 0.0 | - | 0.0 |
| 10 | 1.3 | 0.4 | 0.0 | 2.4 | <0.1 |

STATION 58

DATE July 5, 1954 LAT. 33°36'N. LONG. 77°54'W. TIME 11
 DEPTH 16 WIND 9, 25 BAR. 14 AIR TEMP: dry 26.7°C, wet 23.9°C
 HUMIDITY 79% WEATHER 01 CLOUDS: type 8, amt. 4 SEA: dir. 25, amt. 4
 SWELL: dir. -, amt. - VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.29 | 35.17 | 22.77 | 4.75 |
| 10 | 27.19 | 35.12 | 22.77 | 4.79 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.29 | 35.17 | 22.77 | 4.75 |
| 10 | 27.19 | 35.12 | 22.77 | 4.79 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.2 | 0.6 | 0.0 | - | 0.7 |
| 10 | 0.6 | 0.6 | 0.0 | - | 0.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.2 | 0.6 | 0.0 | - | 0.7 |
| 10 | 0.6 | 0.6 | 0.0 | - | 0.6 |

STATION 59

DATE July 5, 1954 LAT. 33°22'N. LONG. 77°38'W. TIME 14
 DEPTH 24 WIND 9, 25 BAR. 14 AIR TEMP: dry 28.9°C, wet 26.1°C
 HUMIDITY 80% WEATHER - CLOUDS: type 4, amt. 2 SEA: dir. 25, amt. 3
 SWELL: dir. 22, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.80 | 35.93 | 23.50 | 4.91 |
| 10 | 26.80 | 35.89 | 23.47 | 4.86 |
| 20 | 24.37 | 36.09 | 24.38 | 4.99 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.80 | 35.93 | 23.50 | 4.91 |
| 10 | 26.80 | 35.89 | 23.47 | 4.86 |
| 20 | 24.37 | 36.09 | 24.38 | 4.99 |

STATION 59

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 3.4 | - | 0.5 | 1.7 | 1.4 |
| 10 | 0.5 | 0.3 | <0.5 | 0.7 | - |
| 20 | 0.6 | 0.6 | 1.5 | - | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 3.4 | - | 0.5 | 1.7 | 1.4 |
| 10 | 0.5 | 0.3 | <0.5 | 0.7 | 0.8 |
| 20 | 0.6 | 0.6 | 1.5 | - | 0.2 |

STATION 60

DATE July 5, 1954 LAT. 33°08'N. LONG. 77°20'W. TIME 18
 DEPTH 265 WIND 6, 24 BAR. 14 AIR TEMP: dry 29.4°C, wet 26.7°C
 HUMIDITY 80% WEATHER 03 CLOUDS: type 4, amt. 3 SEA: dir. 26, amt. 3
 SWELL: dir. 20, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.51 | 36.07 | 23.38 | 4.83 |
| 10 | 27.40 | 36.08 | 23.42 | 4.77 |
| 20 | 27.29 | 36.00 | 23.40 | 4.79 |
| 50 | 22.48 | 36.33 | 25.11 | 4.85 |
| 100 | 19.44 | 36.51 | 26.08 | 3.70 |
| 150 | 17.35 | 36.33 | 26.47 | 3.65 |
| 200 | 14.97 | 35.96 | 26.74 | - |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.51 | 36.07 | 23.38 | 4.83 |
| 10 | 27.40 | 36.08 | 23.42 | 4.77 |
| 20 | 27.29 | 36.00 | 23.40 | 4.79 |
| 30 | 25.44 | 36.13 | 24.08 | 4.81 |
| 50 | 22.48 | 36.33 | 25.11 | 4.85 |
| 75 | 20.84 | 36.47 | 25.67 | 4.14 |
| 100 | 19.44 | 36.51 | 26.08 | 3.70 |
| 150 | 17.35 | 36.33 | 26.47 | 3.65 |
| 200 | 14.97 | 35.96 | 26.74 | - |

STATION 60

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.2 | 0.5 | - | - |
| 10 | 1.3 | 0.6 | 2.5 | 0.0 | 0.7 |
| 20 | - | 0.3 | 1.0 | - | 1.3 |
| 50 | 1.5 | 0.2 | 1.0 | 1.1 | 0.2 |
| 100 | 2.0 | 1.1 | 1.0 | 0.1 | 1.6 |
| 150 | 1.4 | 1.2 | 7.5 | - | 1.4 |
| 200 | 1.9 | 1.8 | 2.5 | 2.1 | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.2 | 0.5 | - | - |
| 10 | 1.3 | 0.6 | 2.5 | 0.0 | 0.7 |
| 20 | 1.3 | 0.3 | 1.0 | - | 1.3 |
| 30 | 1.4 | 0.3 | 1.0 | - | 0.9 |
| 50 | 1.5 | 0.2 | 1.0 | 1.1 | 0.2 |
| 75 | 1.8 | 0.7 | 1.0 | 0.6 | 0.9 |
| 100 | 2.0 | 1.1 | 1.0 | 0.1 | 1.6 |
| 150 | 1.4 | 1.2 | 7.5 | 1.1 | 1.4 |
| 200 | 1.9 | 1.8 | 2.5 | 2.1 | 0.2 |

STATION 61

DATE July 5, 1954 LAT. 32°54'N. LONG. 77°03'W. TIME 21
 DEPTH 508 WIND 9, 18 BAR. 13 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 83% WEATHER 01 CLOUDS: type 5, amt. 1 SEA: dir. 19, amt. 3
 SWELL: dir. 23, amt. 3 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.19 | 36.06 | 23.15 | 4.64 |
| 10 | 28.19 | 35.97 | 23.08 | 4.69 |
| 20 | 27.37 | 35.88 | 23.28 | 4.76 |
| 50 | 23.80 | 36.33 | 24.73 | 4.75 |
| 100 | 18.99 | 36.44 | 26.14 | 3.86 |
| 150 | 15.39 | 35.97 | 26.65 | 3.19 |
| 200 | 13.66 | 35.73 | 26.84 | 3.36 |
| 300 | 10.72 | 35.37 | 27.13 | 3.06 |
| 400 | 8.89 | 35.14 | 27.27 | 3.11 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.19 | 36.06 | 23.15 | 4.64 |
| 10 | 28.19 | 35.97 | 23.08 | 4.69 |
| 20 | 27.37 | 35.88 | 23.28 | 4.76 |
| 30 | 26.12 | 36.06 | 23.82 | 4.76 |
| 50 | 23.80 | 36.33 | 24.73 | 4.75 |
| 75 | 21.24 | 36.39 | 25.50 | 4.28 |
| 100 | 18.99 | 36.44 | 26.14 | 3.86 |
| 150 | 15.39 | 35.97 | 26.65 | 3.19 |
| 200 | 13.66 | 35.73 | 26.84 | 3.36 |
| 250 | 12.05 | 35.53 | 27.01 | 3.17 |
| 300 | 10.72 | 35.37 | 27.13 | 3.06 |
| 400 | 8.89 | 35.14 | 27.27 | 3.11 |

STATION 61

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 1.0 | 0.5 | 0.4 | <0.1 |
| 10 | 0.4 | 0.4 | 0.0 | 0.3 | 0.2 |
| 20 | 1.0 | 0.1 | 0.5 | 0.6 | 1.7 |
| 50 | 1.5 | - | 0.0 | 0.0 | 0.6 |
| 100 | 1.4 | 0.8 | 4.5 | 1.3 | 0.0 |
| 150 | 1.4 | 1.4 | 2.0 | 0.0 | 1.9 |
| 200 | - | 2.4 | 1.0 | 0.4 | 0.4 |
| 300 | - | 2.0 | 17.0 | 0.5 | 1.5 |
| 400 | - | 2.3 | 24.0 | 12.9 | 1.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | 1.0 | 0.5 | 0.4 | <0.1 |
| 10 | 0.4 | 0.4 | 0.0 | 0.3 | 0.2 |
| 20 | 1.0 | 0.1 | 0.5 | 0.6 | 1.7 |
| 30 | 1.1 | 0.2 | <0.5 | 0.4 | 1.3 |
| 50 | 1.5 | 0.4 | 0.0 | 0.0 | 0.6 |
| 75 | 1.5 | 0.6 | 2.5 | 0.7 | 0.3 |
| 100 | 1.4 | 0.8 | 4.5 | 1.3 | 0.0 |
| 150 | 1.4 | 1.4 | 2.0 | 0.0 | 1.9 |
| 200 | - | 2.4 | 1.0 | 0.4 | 0.4 |
| 250 | - | 2.2 | 9.0 | 0.4 | 1.0 |
| 300 | - | 2.0 | 17.0 | 0.5 | 1.5 |
| 400 | - | 2.3 | 24.0 | 12.9 | 1.3 |

STATION 62

DATE July 6, 1954 LAT. 32°40'N. LONG. 76°46'W. TIME 01
 DEPTH 814 WIND 10, 26 BAR. 13 AIR TEMP: dry 27.2°C, wet 25.6°C
 HUMIDITY 87% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 26, amt. 3
 SWELL: dir. 23, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.88 | 36.04 | 23.24 | 4.74 |
| 8 | 27.90 | 36.00 | 23.20 | 4.75 |
| 13 | 27.90 | 35.93 | 23.15 | 4.75 |
| 35 | 26.30 | 36.08 | 23.77 | 4.86 |
| 70 | 21.78 | 36.26 | 25.26 | 4.62 |
| 105 | 19.05 | 36.22 | 25.96 | 4.06 |
| 140 | 16.85 | 36.11 | 26.42 | 3.42 |
| 210 | 14.95 | 36.35 | 27.04 | 3.33 |
| 280 | 12.73 | 35.64 | 26.96 | 3.22 |
| 355 | 11.21 | 35.45 | 27.11 | 3.18 |
| 495 | 8.02 | 35.05 | 27.33 | 3.05 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.88 | 36.04 | 23.24 | 4.74 |
| 10 | 27.90 | 35.97 | 23.18 | 4.75 |
| 20 | 27.49 | 35.98 | 23.32 | 4.81 |
| 30 | 26.75 | 36.05 | 23.61 | 4.85 |
| 50 | 24.14 | 36.18 | 24.51 | 4.80 |
| 75 | 21.36 | 36.26 | 25.37 | 4.54 |
| 100 | 19.41 | 36.23 | 25.87 | 4.14 |
| 150 | 16.60 | 36.20 | 26.55 | 3.41 |
| 200 | 15.24 | 36.32 | 26.95 | 3.34 |
| 250 | 13.59 | 35.88 | 26.97 | 3.26 |
| 300 | 12.34 | 35.59 | 27.00 | 3.21 |
| 400 | 10.23 | 35.33 | 27.19 | 3.15 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.2 | 0.3 | <0.5 | - | - |
| 8 | 1.2 | 0.5 | 1.5 | 0.0 | 2.4 |
| 13 | 0.7 | 0.2 | <0.5 | 0.0 | 0.4 |
| 35 | 1.5 | 0.2 | 0.0 | 1.8 | 1.5 |
| 70 | 1.4 | 0.5 | 1.5 | - | 0.9 |
| 105 | 1.7 | 0.8 | 2.5 | 0.0 | 0.8 |
| 140 | 2.0 | 1.1 | 6.5 | - | 0.3 |
| 210 | 2.3 | 1.4 | 10.5 | - | 0.6 |
| 280 | 2.5 | 1.9 | 9.0 | 0.0 | 1.1 |
| 355 | - | 1.8 | 10.0 | 2.2 | 0.8 |
| 495 | 2.2 | 2.2 | 10.0 | 1.6 | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.2 | 0.3 | <0.5 | - | - |
| 10 | 1.0 | 0.4 | 1.0 | 0.0 | 1.5 |
| 20 | 1.0 | 0.2 | <0.5 | 0.6 | 0.8 |
| 30 | 1.4 | 0.2 | 0.0 | 1.4 | 1.3 |
| 50 | 1.5 | 0.3 | 0.5 | 1.4 | 1.2 |
| 75 | 1.5 | 0.5 | 1.5 | 0.8 | 0.9 |
| 100 | 1.7 | 0.8 | 2.5 | 0.0 | 0.8 |
| 150 | 2.1 | 1.2 | 7.0 | - | 0.4 |
| 200 | 2.3 | 1.4 | 10.0 | - | 0.5 |
| 250 | 2.4 | 1.7 | 9.5 | - | 0.9 |
| 300 | 2.5 | 1.9 | 9.5 | 0.6 | 1.0 |
| 400 | 2.3 | 2.0 | 10.0 | 2.0 | 0.7 |
| 500 | 2.2 | 2.2 | 10.0 | 1.6 | 0.4 |

STATION 63

DATE July 6, 1954 LAT. 33°13'N. LONG. 76°24'W. TIME 06
 DEPTH 718 WIND 14, 22 BAR. 11 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 25, amt. 3
 SWELL: dir. 23, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.94 | 35.97 | 23.16 | - |
| 8 | 27.97 | 35.83 | 23.05 | 4.70 |
| 14 | 27.96 | 35.96 | 23.15 | 4.70 |
| 34 | 27.02 | 35.99 | 23.48 | 4.79 |
| 68 | 24.77 | 36.40 | 24.49 | 5.01 |
| 101 | 23.37 | 36.73 | 25.16 | 4.27 |
| 136 | 21.24 | 36.40 | 25.51 | 4.80 |
| 204 | 18.84 | 36.67 | 26.36 | 4.44 |
| 273 | 17.67 | 36.62 | 26.61 | 4.46 |
| 343 | 16.38 | 36.62 | 26.92 | 4.12 |
| 482 | 11.27 | 35.46 | 27.10 | 3.11 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.94 | 35.97 | 23.16 | - |
| 10 | 27.97 | 35.88 | 23.09 | 4.70 |
| 20 | 27.71 | 35.97 | 23.24 | 4.72 |
| 30 | 27.23 | 35.97 | 23.40 | 4.77 |
| 50 | 25.86 | 36.19 | 24.00 | 4.89 |
| 75 | 24.52 | 36.52 | 24.66 | 4.75 |
| 100 | 23.42 | 36.73 | 25.14 | 4.29 |
| 150 | 20.64 | 36.48 | 25.74 | 4.70 |
| 200 | 18.95 | 36.66 | 26.32 | 4.45 |
| 250 | 18.07 | 36.63 | 26.52 | 4.45 |
| 300 | 17.27 | 36.62 | 26.71 | 4.34 |
| 400 | 14.69 | 36.33 | 27.08 | 3.76 |

STATION 63

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.4 | 0.0 | - | 1.0 |
| 8 | 1.1 | 0.5 | 0.5 | - | 1.2 |
| 14 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 34 | 1.5 | 0.2 | 1.5 | - | 1.6 |
| 68 | 1.2 | 0.2 | 0.0 | - | 0.9 |
| 101 | 0.8 | 0.7 | 1.0 | - | 1.9 |
| 136 | 0.9 | 0.3 | <0.5 | - | 0.5 |
| 204 | 0.9 | - | 4.5 | 0.9 | 0.4 |
| 273 | 0.9 | 0.5 | 6.0 | 2.6 | 1.3 |
| 343 | 1.1 | 0.7 | 1.5 | - | - |
| 482 | 2.2 | 1.6 | 1.5 | 0.0 | 4.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.4 | 0.0 | - | 1.0 |
| 10 | 1.0 | 0.4 | 0.5 | 0.0 | 0.8 |
| 20 | 1.1 | 0.3 | 0.5 | - | 0.5 |
| 30 | 1.4 | 0.2 | 1.0 | - | 1.3 |
| 50 | 1.3 | 0.2 | 1.0 | - | 1.3 |
| 75 | 1.1 | 0.3 | <0.5 | - | 1.1 |
| 100 | 0.8 | 0.7 | 1.0 | - | 1.9 |
| 150 | 0.9 | 0.3 | 1.0 | - | 0.5 |
| 200 | 0.9 | 0.4 | 4.5 | 0.9 | 0.4 |
| 250 | 0.9 | 0.5 | 5.5 | 2.1 | 1.0 |
| 300 | 1.0 | 0.6 | 4.0 | - | 1.7 |
| 400 | 1.6 | 1.1 | 1.5 | - | 3.2 |

STATION 64

DATE July 6, 1954 LAT. 33°28'N. LONG. 76°39'W. TIME 10
 DEPTH 365 WIND 13, 24 BAR. 09 AIR TEMP: dry 27.2°C, wet 26.1°C
 HUMIDITY 91% WEATHER 03 CLOUDS: type 6, amt. 8 SEA: dir. 24, amt. 3
 SWELL: dir. 23, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.28 | 36.18 | 23.21 | 4.28 |
| 8 | 28.30 | 36.15 | 23.18 | 3.77 |
| 15 | 28.29 | 36.06 | 23.12 | 3.68 |
| 39 | 26.38 | 36.27 | 23.89 | 4.96 |
| 79 | 23.40 | 36.55 | 25.01 | 4.70 |
| 120 | 20.99 | 36.40 | 25.58 | 3.56 |
| 162 | 18.18 | 36.27 | 26.22 | 3.28 |
| 246 | 14.88 | 35.99 | 26.78 | 3.53 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.28 | 36.18 | 23.21 | 4.28 |
| 10 | 28.30 | 36.12 | 23.16 | 3.72 |
| 20 | 27.88 | 36.11 | 23.29 | 4.04 |
| 30 | 27.09 | 36.19 | 23.61 | 4.61 |
| 50 | 25.50 | 36.39 | 24.26 | 4.89 |
| 75 | 23.67 | 36.54 | 24.92 | 4.76 |
| 100 | 22.21 | 36.47 | 25.29 | 4.01 |
| 150 | 18.90 | 36.31 | 26.07 | 3.33 |
| 200 | 16.30 | 36.15 | 26.58 | 3.39 |

STATION 64

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 1.9 | <0.5 | 0.0 | 1.5 |
| 8 | 1.9 | - | 0.5 | 3.6 | 0.5 |
| 15 | 0.8 | 0.2 | 0.5 | 2.6 | 0.6 |
| 39 | 0.9 | 0.5 | 0.0 | 0.0 | 0.4 |
| 79 | 1.3 | 0.2 | 0.5 | 0.2 | 0.0 |
| 120 | 3.1 | 1.2 | 0.0 | - | 1.3 |
| 162 | 1.5 | 1.2 | 0.5 | 1.0 | 0.0 |
| 246 | 1.9 | 1.2 | 3.0 | - | 0.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 1.9 | <0.5 | 0.0 | 1.5 |
| 10 | 1.6 | 0.7 | 0.5 | 3.3 | 0.6 |
| 20 | 0.9 | 0.3 | 0.5 | 2.1 | 0.6 |
| 30 | 0.9 | 0.4 | <0.5 | 1.0 | 0.5 |
| 50 | 1.1 | 0.4 | <0.5 | 0.1 | 0.3 |
| 75 | 1.3 | 0.3 | 0.5 | 0.2 | 0.1 |
| 100 | 2.3 | 0.8 | 0.5 | 0.4 | 0.7 |
| 150 | 1.9 | 1.2 | 0.5 | 0.9 | 0.4 |
| 200 | 1.7 | 1.2 | 1.5 | - | 0.4 |
| 250 | 1.9 | 1.2 | 3.0 | - | 0.9 |

STATION 65

DATE July 7, 1954 LAT. 33°43'N. LONG. 76°56'W. TIME 19
 DEPTH 40 WIND 8, 18 BAR. 13 AIR TEMP: dry 28.3°C, wet 27.2°C
 HUMIDITY 92% WEATHER 03 CLOUDS: type 8, amt. 5 SEA: dir. 18, amt. 3
 SWELL: dir. 21, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.36 | 36.14 | 23.48 | 4.54 |
| 10 | 27.31 | 36.15 | 23.51 | 4.54 |
| 20 | 26.92 | 36.09 | 23.59 | 4.54 |
| 30 | 25.40 | 36.28 | 24.21 | 4.69 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.36 | 36.14 | 23.48 | 4.54 |
| 10 | 27.31 | 36.15 | 23.51 | 4.54 |
| 20 | 26.92 | 36.09 | 23.59 | 4.54 |
| 30 | 25.40 | 36.28 | 24.21 | 4.69 |

STATION 65

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.7 | 0.9 | 1.5 | 1.3 | 0.3 |
| 10 | 1.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| 20 | 0.8 | 0.2 | 5.5 | 0.0 | 0.0 |
| 30 | 1.3 | - | <0.5 | 1.2 | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.7 | 0.9 | 1.5 | 1.3 | 0.3 |
| 10 | 1.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| 20 | 0.8 | 0.2 | 5.5 | 0.0 | 0.0 |
| 30 | 1.3 | - | <0.5 | 1.2 | 0.4 |

STATION 66

DATE July 7, 1954 LAT. 33°57'N. LONG. 77°13'W. TIME 22
 DEPTH 25 WIND 10, 18 BAR. 12 AIR TEMP: dry 28.3°C, wet 27.2°C
 HUMIDITY 92% WEATHER 02 CLOUDS: type 8, amt. 4 SEA: dir. 18, amt. 3
 SWELL: dir. 21, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.16 | 36.02 | 23.46 | 4.62 |
| 10 | 27.15 | 35.94 | 23.40 | 4.54 |
| 20 | 25.90 | 36.20 | 23.99 | 4.70 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.16 | 36.02 | 23.46 | 4.62 |
| 10 | 27.15 | 35.94 | 23.40 | 4.54 |
| 20 | 25.90 | 36.20 | 23.99 | 4.70 |

STATION 66

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.8 | 0.8 | <0.5 | 0.5 | 0.0 |
| 10 | 0.8 | 0.2 | <0.5 | 0.0 | 0.9 |
| 20 | 0.7 | 0.3 | <0.5 | 0.0 | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.8 | 0.8 | <0.5 | 0.5 | 0.0 |
| 10 | 0.8 | 0.2 | <0.5 | 0.0 | 0.9 |
| 20 | 0.7 | 0.3 | <0.5 | 0.0 | 0.2 |

STATION 67

DATE July 8, 1954 LAT. 34°11'N. LONG. 77°30'W. TIME 01
 DEPTH 18 WIND 11, 22 BAR. 12 AIR TEMP: dry 27.5°C, wet 26.7°C
 HUMIDITY 96% WEATHER 01 CLOUDS: type 5, amt. 2 SEA: dir. 22, amt. 3
 SWELL: dir. 20, amt. 3 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.23 | 35.57 | 23.09 | 4.63 |
| 10 | 27.23 | 35.41 | 22.97 | 4.71 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.23 | 35.57 | 23.09 | 4.63 |
| 10 | 27.23 | 35.41 | 22.97 | 4.71 |

STATION 67

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.2 | 0.3 | 0.5 | 2.6 | 0.4 |
| 10 | 1.3 | 0.6 | 0.0 | - | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.2 | 0.3 | 0.5 | 2.6 | 0.4 |
| 10 | 1.3 | 0.6 | 0.0 | - | 0.4 |

STATION 68

DATE July 8, 1954 LAT. 34°21'N. LONG. 77°09'W. TIME 04
 DEPTH 20 WIND 14, 22 BAR. 13 AIR TEMP: dry 28.3°C, wet 27.2°C
 HUMIDITY 92% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 22, amt. 4
 SWELL: dir. 20, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.25 | 35.57 | 23.09 | 4.63 |
| 10 | 27.93 | 35.66 | 22.93 | 4.95 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.25 | 35.57 | 23.09 | 4.63 |
| 10 | 27.93 | 35.66 | 22.93 | 4.95 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.6 | 0.7 | 1.0 | 0.0 | 0.6 |
| 10 | 0.8 | 0.4 | 5.0 | - | 1.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.6 | 0.7 | 1.0 | 0.0 | 0.6 |
| 10 | 0.8 | 0.4 | 5.0 | - | 1.4 |

STATION 69

DATE July 10, 1954 LAT. 34°32'N. LONG. 76°49'W. TIME 11
 DEPTH 16 WIND 5, 02 BAR. 17 AIR TEMP: dry 25.0°C, wet 23.9°C
 HUMIDITY 91% WEATHER 01 CLOUDS: type 5, amt. 6 SEA: dir. 02, amt. 1
 SWELL: dir. 18, amt. 3 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.06 | 35.77 | 23.30 | 4.87 |
| 10 | 27.14 | 35.71 | 23.23 | 4.78 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.06 | 35.77 | 23.30 | 4.87 |
| 10 | 27.14 | 35.71 | 23.23 | 4.78 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.0 | 0.9 | 0.0 | 0.1 | 0.3 |
| 10 | 1.2 | 0.9 | 0.0 | - | 0.8 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.0 | 0.9 | 0.0 | 0.1 | 0.3 |
| 10 | 1.2 | 0.9 | 0.0 | - | 0.8 |

STATION 70

DATE July 10, 1954 LAT. 34°18'N. LONG. 76°32'W. TIME 14
 DEPTH 24 WIND 3, 12 BAR. 17 AIR TEMP: dry 25.0°C, wet 23.9°C
 HUMIDITY 91% WEATHER 63 CLOUDS: type 8, amt. 8 SEA: dir. 12, amt. 1
 SWELL: dir. 18, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.88 | 36.65 | 24.02 | 4.88 |
| 10 | 26.64 | 36.58 | 24.04 | 4.85 |
| 20 | 24.82 | 36.61 | 24.63 | 4.36 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.88 | 36.65 | 24.02 | 4.88 |
| 10 | 26.64 | 36.58 | 24.04 | 4.85 |
| 20 | 24.82 | 36.61 | 24.63 | 4.36 |

STATION 70

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.5 | 0.4 | 1.0 | 2.3 | 0.1 |
| 10 | 1.0 | 0.2 | <0.5 | 1.7 | 0.2 |
| 20 | 1.6 | 0.4 | 1.0 | 0.1 | 2.6 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.5 | 0.4 | 1.0 | 2.3 | 0.1 |
| 10 | 1.0 | 0.2 | <0.5 | 1.7 | 0.2 |
| 20 | 1.6 | 0.4 | 1.0 | 0.1 | 2.6 |

STATION 71

DATE July 10, 1954 LAT. 34°04' N. LONG. 76°14' W. TIME 17
 DEPTH 135 WIND 2, 13 BAR. 17 AIR TEMP: dry 23.9°C, wet 22.2°C
 HUMIDITY 87% WEATHER 61 CLOUDS: type -, amt. 9 SEA: dir. -, amt. -
 SWELL: dir. 18, amt. 3 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.88 | 36.53 | 23.61 | 4.71 |
| 10 | 28.01 | 36.42 | 23.48 | 4.79 |
| 20 | 27.77 | 36.42 | 23.56 | 4.79 |
| 50 | 25.73 | 36.48 | 24.25 | 4.71 |
| 100 | 21.76 | 36.53 | 25.47 | 4.38 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.88 | 36.53 | 23.61 | 4.71 |
| 10 | 28.01 | 36.42 | 23.48 | 4.79 |
| 20 | 27.77 | 36.42 | 23.56 | 4.79 |
| 30 | 27.12 | 36.44 | 23.78 | 4.77 |
| 50 | 25.73 | 36.48 | 24.25 | 4.71 |
| 75 | 23.83 | 36.51 | 24.85 | 4.58 |
| 100 | 21.76 | 36.53 | 25.47 | 4.38 |

STATION 71

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.3 | 0.5 | 0.1 | 0.0 |
| 10 | 1.3 | 0.2 | - | - | 0.9 |
| 20 | - | 0.5 | 0.5 | 2.7 | 0.1 |
| 50 | 0.8 | 0.2 | 0.5 | 0.0 | 0.1 |
| 100 | 0.6 | 0.6 | 0.5 | 2.6 | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.3 | 0.5 | 0.1 | 0.0 |
| 10 | 1.3 | 0.2 | 0.5 | 1.4 | 0.9 |
| 20 | 1.2 | 0.5 | 0.5 | 2.7 | 0.1 |
| 30 | 1.1 | 0.4 | 0.5 | 1.8 | 0.1 |
| 50 | 0.8 | 0.2 | 0.5 | 0.0 | 0.1 |
| 75 | 0.7 | 0.4 | 0.5 | 1.3 | 0.2 |
| 100 | 0.6 | 0.6 | 0.5 | 2.6 | 0.4 |

STATION 72

DATE July 10, 1954 LAT. 33°50' N. LONG. 75°59' W. TIME 21
 DEPTH 667 WIND 6, 14 BAR. 17 AIR TEMP: dry 25.0°C, wet 23.9°C
 HUMIDITY 91% WEATHER 61 CLOUDS: type -, amt. 8 SEA: dir. 14, amt. 1
 SWELL: dir. 18, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.18 | 36.26 | 23.30 | 4.60 |
| 10 | 28.20 | 36.11 | 23.18 | 4.69 |
| 20 | 28.22 | 36.17 | 23.22 | 4.70 |
| 48 | 25.72 | 36.26 | 24.09 | 5.03 |
| 97 | 22.57 | 36.69 | 25.36 | 3.96 |
| 146 | 19.35 | 36.47 | 26.07 | 3.62 |
| 195 | 17.89 | 36.28 | 26.30 | 3.65 |
| 293 | 15.48 | 36.10 | 26.73 | 3.19 |
| 389 | 11.89 | 35.54 | 27.05 | 3.57 |
| 583 | 7.94 | 35.10 | 27.38 | 3.70 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.18 | 36.26 | 23.30 | 4.60 |
| 10 | 28.20 | 36.11 | 23.18 | 4.69 |
| 20 | 28.22 | 36.17 | 23.22 | 4.70 |
| 30 | 27.27 | 36.19 | 23.55 | 4.90 |
| 50 | 25.59 | 36.29 | 24.15 | 4.97 |
| 75 | 23.99 | 36.58 | 24.86 | 4.35 |
| 100 | 22.32 | 36.68 | 25.42 | 3.93 |
| 150 | 19.22 | 36.45 | 26.09 | 3.63 |
| 200 | 17.80 | 36.28 | 26.32 | 3.61 |
| 250 | 16.69 | 36.23 | 26.55 | 3.29 |
| 300 | 15.18 | 36.05 | 26.76 | 3.22 |
| 400 | 11.55 | 35.49 | 27.07 | 3.60 |
| 500 | 9.09 | 35.17 | 27.26 | 3.64 |

STATION 72

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.2 | 0.2 | 0.5 | 0.0 | 0.6 |
| 10 | 0.9 | - | 0.0 | 0.2 | 0.0 |
| 20 | 0.7 | 0.4 | 0.0 | 0.0 | 0.3 |
| 48 | - | 1.2 | 0.5 | 1.5 | 0.7 |
| 97 | 1.4 | - | 0.5 | 1.9 | 0.5 |
| 146 | 1.0 | - | 6.5 | - | 0.0 |
| 195 | 5.4 | 0.8 | 10.0 | 0.4 | 1.0 |
| 293 | 1.2 | 1.2 | 13.5 | 1.4 | 0.3 |
| 389 | - | 1.7 | 11.0 | 1.3 | 0.3 |
| 583 | - | 1.4 | 5.5 | 0.0 | - |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.2 | 0.2 | 0.5 | 0.0 | 0.6 |
| 10 | 0.9 | 0.3 | 0.0 | 0.2 | 0.0 |
| 20 | 0.7 | 0.4 | 0.0 | 0.0 | 0.3 |
| 30 | 0.8 | 0.7 | <0.5 | 0.5 | 0.4 |
| 50 | - | 1.2 | 0.5 | 1.5 | 0.7 |
| 75 | 1.2 | 1.1 | 0.5 | 1.7 | 0.6 |
| 100 | 1.4 | 1.1 | 0.5 | 1.9 | 0.5 |
| 150 | 1.0 | 1.0 | 6.5 | 1.2 | 0.0 |
| 200 | 5.4 | 0.8 | 10.0 | 0.4 | 1.0 |
| 250 | 3.3 | 1.0 | 12.0 | 0.9 | 0.6 |
| 300 | 1.2 | 1.2 | 13.5 | 1.4 | 0.3 |
| 400 | - | 1.7 | 11.0 | 1.3 | 0.3 |
| 500 | - | 1.5 | 8.5 | 0.7 | - |

STATION 73

DATE July 11, 1954 LAT. 34°10'N LONG. 75°20'W TIME 02
 DEPTH 3017 WIND 8, 16 BAR. 17 AIR TEMP: dry 24.4°C, wet 22.8°C
 HUMIDITY 87% WEATHER 61 CLOUDS: type -, amt. - SEA: dir. 16, amt. 2
 SWELL: dir. 18, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.12 | 35.88 | 23.36 | 4.62 |
| 7 | 27.16 | 35.79 | 23.28 | 4.73 |
| 14 | 27.16 | 35.91 | 23.37 | 4.70 |
| 35 | 27.18 | 36.02 | 23.45 | 4.74 |
| 70 | 22.46 | 36.46 | 25.22 | 5.22 |
| 105 | 20.30 | 36.56 | 25.89 | 5.28 |
| 141 | 19.32 | 36.58 | 26.16 | 4.55 |
| 213 | 18.32 | 36.57 | 26.41 | 4.71 |
| 290 | 17.94 | 36.51 | 26.46 | 4.70 |
| 320 | 17.58 | 36.46 | 26.51 | 4.66 |
| 378 | 17.25 | 36.44 | 26.58 | 4.49 |
| 435 | 16.58 | 36.20* | 26.55 | 4.24 |
| 555 | 14.20 | 35.85 | 26.82 | 3.81 |
| 625 | - | 35.48* | - | 3.70 |
| 800 | - | 35.37* | - | 3.23 |
| 997 | 4.42 | 35.10 | 27.84 | 5.80 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.12 | 35.88 | 23.36 | 4.62 |
| 10 | 27.16 | 35.85 | 23.33 | 4.71 |
| 20 | 27.17 | 35.93 | 23.38 | 4.71 |
| 30 | 27.18 | 35.98 | 23.42 | 4.71 |
| 50 | 24.84 | 36.25 | 24.35 | 5.00 |
| 75 | 22.08 | 36.48 | 25.34 | 5.23 |
| 100 | 20.54 | 36.55 | 25.82 | 5.27 |
| 150 | 19.16 | 36.58 | 26.20 | 4.58 |
| 200 | 18.45 | 36.58 | 26.39 | 4.69 |
| 250 | 18.24 | 36.55 | 26.42 | 4.71 |
| 300 | 17.81 | 36.49 | 26.48 | 4.69 |
| 400 | 17.03 | 36.41 | 26.55 | 4.39 |
| 500 | 15.31 | 36.05 | 26.73 | 3.96 |
| 600 | 13.28 | 35.76 | 26.94 | 3.74 |
| 800 | 8.98 | 35.42 | 27.47 | 3.23 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 0.3 | <0.5 | 14.3 | 1.2 |
| 7 | 1.3 | 0.2 | 0.0 | 3.6 | 11.2 |
| 14 | 1.1 | 0.4 | 0.0 | 0.8 | 0.0 |
| 35 | 0.8 | 0.3 | 0.0 | 1.1 | 6.1 |
| 70 | 1.3 | 0.2 | 0.5 | 0.0 | 0.0 |
| 105 | 1.0 | 0.1 | 0.0 | 0.0 | <0.1 |
| 141 | 0.6 | - | 0.0 | 0.8 | 1.4 |
| 213 | 1.2 | 0.6 | 1.0 | 0.0 | 1.2 |
| 290 | 1.7 | 0.6 | 1.0 | 0.0 | 1.1 |
| 320 | 0.9 | 0.4 | 2.5 | 2.6 | 0.7 |
| 382 | 0.9 | 0.6 | 4.0 | 0.0 | 0.0 |
| 435 | 1.8 | - | 4.0 | 0.0 | <0.1 |
| 555 | 1.5 | 1.0 | 8.0 | 0.9 | 0.4 |
| 625 | 1.7 | 1.6 | 7.5 | 0.0 | 1.0 |
| 800 | 3.3 | 1.9 | 1.5 | 0.0 | 0.5 |
| 997 | 1.4 | 1.5 | 1.0 | 0.0 | 0.7 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 0.3 | <0.5 | 14.3 | 1.2 |
| 10 | 1.2 | 0.2 | 0.0 | 2.4 | 7.0 |
| 20 | 1.0 | 0.4 | 0.0 | 0.9 | 1.9 |
| 30 | 0.9 | 0.4 | 0.0 | 1.1 | 4.8 |
| 50 | 1.0 | 0.2 | <0.5 | 0.6 | 3.5 |
| 75 | 1.2 | 0.2 | 0.5 | 0.0 | 0.0 |
| 100 | 1.1 | 0.1 | 0.0 | 0.0 | <0.1 |
| 150 | 0.7 | 0.3 | <0.5 | 0.8 | 1.4 |
| 200 | 1.1 | 0.6 | 1.0 | 0.2 | 1.2 |
| 250 | 1.4 | 0.6 | 1.0 | 0.0 | 1.2 |
| 300 | 1.4 | 0.5 | 1.5 | 1.0 | 1.0 |
| 400 | 1.2 | 0.6 | 4.0 | 0.0 | 0.0 |
| 500 | 1.6 | 0.9 | 6.0 | 0.5 | 0.2 |
| 600 | 1.6 | 1.4 | 8.0 | 0.3 | 0.8 |
| 700 | 2.4 | 1.7 | 5.0 | 0.0 | 0.8 |
| 800 | 3.3 | 1.9 | 1.5 | 0.0 | 0.5 |
| 1000 | 1.4 | 1.5 | 1.0 | 0.0 | 0.7 |

STATION 74

DATE July 11, 1954 LAT. 34°24'N. LONG. 75°36'W. TIME 08
 DEPTH 2377 WIND 10, 12 BAR. 14 AIR TEMP: dry 26.1°C, wet 23.9°C
 HUMIDITY 83% WEATHER 00 CLOUDS: type -, amt. - SEA: dir. 12, amt. 2
 SWELL: dir. 18, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.70 | 36.09 | 23.33 | 4.70 |
| 10 | 27.72 | 36.20 | 23.41 | 4.71 |
| 20 | 27.75 | 36.32 | 23.49 | 4.72 |
| 49 | 25.65 | 36.46 | 24.26 | 4.96 |
| 98 | 22.78 | 36.44 | 25.11 | 4.28 |
| 146 | 20.50 | 36.62 | 25.88 | 3.80 |
| 195 | 18.74 | 36.58 | 26.31 | 4.03 |
| 294 | 17.02 | 36.20 | 26.45 | 3.95 |
| 367 | 13.98 | 35.31 | 26.83 | 2.70 |
| 393 | 13.72 | 35.81 | 26.89 | 3.65 |
| 458 | 12.05 | 35.49 | 26.98 | 3.17 |
| 492 | 10.75 | 35.37 | 27.13 | 3.27 |
| 540 | 7.06* | 35.28 | 27.65 | 4.20 |
| 615 | 6.06 | 35.08 | 27.63 | 4.72 |
| 711 | 4.60 | 35.09 | 27.81 | 5.92 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.70 | 36.09 | 23.33 | 4.70 |
| 10 | 27.72 | 36.20 | 23.41 | 4.71 |
| 20 | 27.75 | 36.32 | 23.49 | 4.72 |
| 30 | 26.99 | 36.38 | 23.78 | 4.86 |
| 50 | 25.59 | 36.46 | 24.28 | 4.94 |
| 75 | 24.06 | 36.44 | 24.73 | 4.58 |
| 100 | 22.67 | 36.45 | 25.15 | 4.25 |
| 150 | 20.32 | 36.62 | 25.93 | 3.83 |
| 200 | 18.67 | 36.56 | 26.30 | 4.03 |
| 250 | 18.13 | 36.39 | 26.32 | 3.99 |
| 300 | 16.64 | 36.15 | 26.50 | 3.63 |
| 400 | 13.59 | 35.77 | 26.89 | 3.56 |
| 500 | 10.30 | 35.36 | 27.20 | 3.46 |
| 600 | 6.44 | 35.11 | 27.60 | 4.59 |

STATION 74

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.9 | 0.4 | 0.0 | 0.4 | 1.7 |
| 10 | 1.0 | 0.4 | <0.5 | 0.6 | <0.1 |
| 20 | 1.0 | 0.4 | 0.5 | 0.8 | 0.0 |
| 49 | 0.9 | 0.4 | 0.5 | 1.7 | 0.4 |
| 98 | - | 0.7 | 1.0 | 0.9 | 0.7 |
| 146 | 0.9 | 1.0 | 1.0 | 0.3 | <0.1 |
| 195 | 0.8 | 0.6 | 5.5 | 0.0 | 0.7 |
| 294 | - | 1.1 | 2.0 | 0.0 | 0.0 |
| 367 | - | 1.9 | 16.0 | 0.1 | 0.3 |
| 393 | 1.3 | 1.1 | 13.5 | 0.6 | 0.4 |
| 458 | 1.5 | 1.2 | 10.0 | 1.6 | 1.4 |
| 492 | 1.5 | 1.4 | 1.5* | 0.0 | 0.0 |
| 540 | 3.1 | 1.2 | 24.0 | 2.3 | 1.4 |
| 615 | 1.8 | 0.7 | 4.0* | 1.4 | 0.8 |
| 711 | 0.7 | 0.7 | 10.5 | 0.6 | 0.2 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.9 | 0.4 | 0.0 | 0.4 | 1.7 |
| 10 | 1.0 | 0.4 | <0.5 | 0.6 | <0.1 |
| 20 | 1.0 | 0.4 | 0.5 | 0.8 | 0.0 |
| 30 | 1.0 | 0.4 | 0.5 | 1.1 | 0.1 |
| 50 | 0.9 | 0.4 | 0.5 | 1.7 | 0.4 |
| 75 | 0.9 | 0.5 | 0.5 | 1.3 | 0.5 |
| 100 | 0.9 | 0.7 | 1.0 | 0.9 | 0.7 |
| 150 | 0.9 | 1.0 | 1.0 | 0.3 | <0.1 |
| 200 | 0.8 | 0.6 | 5.5 | 0.0 | 0.7 |
| 250 | 0.9 | 0.9 | 3.5 | 0.0 | 0.3 |
| 300 | 1.1 | 1.1 | 2.0 | 0.0 | 0.0 |
| 400 | 1.3 | 1.1 | 13.5 | 0.6 | 0.4 |
| 500 | 1.5 | 1.4 | 17.5 | 0.0 | 0.0 |
| 600 | 2.1 | 0.8 | 19.5 | 1.6 | 0.9 |
| 700 | 0.8 | 0.7 | 11.5 | 0.7 | 0.3 |

STATION 76

DATE July 12, 1954 LAT. 34°53'N. LONG. 76°10'W. TIME 05
 DEPTH 20 WIND 3, 12 BAR. 17 AIR TEMP: dry 25.0°C, wet 23.9°C
 HUMIDITY 91% WEATHER 61 CLOUDS: type -, amt. - SEA: dir. 12, amt. 1
 SWELL: dir. 18, amt. 3 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 25.14 | 35.37 | 23.60 | 4.86 |
| 10 | 25.08 | 35.70 | 23.87 | 4.87 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 25.14 | 35.37 | 23.60 | 4.86 |
| 10 | 25.08 | 35.70 | 23.87 | 4.87 |

STATION 76

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.3 | 0.1 | 0.5 | 0.0 | 0.8 |
| 10 | 0.9 | 0.8 | 0.0 | 0.0 | 0.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.3 | 0.1 | 0.5 | 0.0 | 0.8 |
| 10 | 0.9 | 0.8 | 0.0 | 0.0 | 0.0 |

STATION 77

DATE July 12, 1954 LAT. 35°01'N. LONG. 75°45'W. TIME 02
 DEPTH 24 WIND 13, 03 BAR. 13 AIR TEMP: dry 23.9°C, wet 22.8°C
 HUMIDITY 91% WEATHER 61 CLOUDS: type -, amt. 9 SEA: dir. 02, amt. 2
 SWELL: dir. 17, amt. 3 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 25.02 | 35.65 | 23.85 | 4.91 |
| 10 | 24.96 | 35.99 | 24.12 | - |
| 20 | 24.59 | 36.18 | 24.38 | 4.91 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 25.02 | 35.65 | 23.85 | 4.91 |
| 10 | 24.96 | 35.99 | 24.12 | 4.91 |
| 20 | 24.59 | 36.18 | 24.38 | 4.91 |

STATION 77

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.6 | 0.0 | - | 1.0 |
| 10 | 0.6 | 0.2 | 0.0 | - | 0.3 |
| 20 | 0.5 | 0.6 | <0.5 | - | 0.0 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | - | 0.6 | 0.0 | - | 1.0 |
| 10 | 0.6 | 0.2 | 0.0 | - | 0.3 |
| 20 | 0.5 | 0.6 | <0.5 | - | 0.0 |

STATION 78

DATE July 11, 1954 LAT. 35°06'N. LONG. 75°20'W. TIME 23
 DEPTH 23 WIND 4, 36 BAR. 13 AIR TEMP: dry 23.9°C, wet 22.8°C
 HUMIDITY 91% WEATHER 61 CLOUDS: type 6, amt. 8 SEA: dir. 36, amt. 1
 SWELL: dir. 17, amt. 4 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.42 | 35.73 | 23.47 | 4.86 |
| 10 | 26.58 | 35.94 | 23.58 | 4.65 |
| 20 | 26.29 | 36.10 | 23.79 | 4.80 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.42 | 35.73 | 23.47 | 4.86 |
| 10 | 26.58 | 35.94 | 23.58 | 4.65 |
| 20 | 26.29 | 36.10 | 23.79 | 4.80 |

STATION 78

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.3 | 0.2 | <0.5 | 3.7 | <0.1 |
| 10 | 1.6 | 0.9 | 0.5 | 1.7 | 0.3 |
| 20 | - | 1.1 | <0.5 | 0.5 | 0.3 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.3 | 0.2 | <0.5 | 3.7 | <0.1 |
| 10 | 1.6 | 0.9 | 0.5 | 1.7 | 0.3 |
| 20 | - | 1.1 | <0.5 | 0.5 | 0.3 |

STATION 79

DATE July 11, 1954 LAT. 34°53'N. LONG. 75°04'W. TIME 19
 DEPTH 2743 WIND 7, 24 BAR. 15 AIR TEMP: dry 26.1°C, wet 23.9°C
 HUMIDITY 83% WEATHER 61 CLOUDS: type -, amt. - SEA: dir. 24, amt. 3
 SWELL: dir. 19, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.31 | 35.86 | 23.29 | 4.60 |
| 9 | 27.46 | 35.93 | 23.29 | 4.70 |
| 18 | 27.43 | 35.86 | 23.25 | 4.71 |
| 45 | 27.49 | 35.93 | 23.28 | 4.70 |
| 92 | 23.20 | 36.60 | 25.11 | 5.00 |
| 140 | 21.34 | 36.67 | 25.69 | 4.71 |
| 180 | 20.18 | 36.64 | 25.98 | 5.04 |
| 265 | 18.38* | 36.47 | 26.32 | 4.54 |
| 343 | 17.24 | 36.49 | 26.62 | 4.15 |
| 475 | - | 35.48 | - | 3.28 |
| 600 | 7.21 | 35.08 | 27.47 | 4.02 |
| 710 | 4.81 | 35.01 | 27.73 | 5.63 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.31 | 35.86 | 23.29 | 4.60 |
| 10 | 27.46 | 35.92 | 23.28 | 4.70 |
| 20 | 27.43 | 35.86 | 23.25 | 4.71 |
| 30 | 27.46 | 35.88 | 23.25 | 4.71 |
| 50 | 26.92 | 36.03 | 23.54 | 4.76 |
| 75 | 24.47 | 36.43 | 24.60 | 4.96 |
| 100 | 22.85 | 36.62 | 25.22 | 4.90 |
| 150 | 21.03 | 36.67 | 25.77 | 4.81 |
| 200 | 19.70 | 36.62 | 26.09 | 4.94 |
| 250 | 18.66 | 36.57 | 26.33 | 4.68 |
| 300 | 17.98 | 36.53 | 26.47 | 4.40 |
| 400 | 14.48 | 35.98 | 26.86 | 3.57 |
| 500 | 10.38 | 35.37 | 27.19 | 3.34 |
| 600 | 7.21 | 35.08 | 27.47 | 4.02 |

STATION 79

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 0.8 | 0.6 | 0.0 | 0.6 | 0.0 |
| 9 | 0.7 | 0.2 | 0.0 | - | 1.6 |
| 18 | 1.4 | 0.2 | 0.0 | 1.6 | 0.6 |
| 45 | - | 1.1 | <0.5 | 0.3 | 0.6 |
| 92 | 0.6 | 0.6 | 0.0 | 0.0 | 0.5 |
| 140 | 1.0 | 0.2 | 0.5 | - | 0.9 |
| 180 | 0.5 | 0.5 | <0.5 | 0.4 | 0.0 |
| 265 | 0.8 | - | 1.5 | 1.3 | 0.0 |
| 343 | 1.3 | 1.0 | - | - | 0.3 |
| 475 | 2.2 | 0.2 | 1.0 | 1.7 | 0.7 |
| 600 | 3.1 | 1.5 | 21.0 | 0.0 | 0.6 |
| 710 | 2.5 | 2.3 | 12.0 | 2.5 | 1.1 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 0.8 | 0.6 | 0.0 | 0.6 | 0.0 |
| 10 | 0.7 | 0.2 | 0.0 | 1.2 | 1.6 |
| 20 | 1.4 | 0.3 | 0.0 | 1.5 | 0.6 |
| 30 | 1.3 | 0.6 | <0.5 | 1.0 | 0.6 |
| 50 | 1.1 | 1.1 | <0.5 | 0.3 | 0.6 |
| 75 | 0.8 | 0.8 | <0.5 | 0.1 | 0.6 |
| 100 | 0.7 | 0.5 | <0.5 | 0.0 | 0.6 |
| 150 | 0.9 | 0.3 | 0.5 | 0.3 | 0.7 |
| 200 | 0.6 | 0.6 | 0.5 | 0.6 | 0.0 |
| 250 | 0.8 | 0.8 | 1.5 | 1.2 | 0.0 |
| 300 | 1.1 | 0.9 | 1.5 | 1.4 | 0.2 |
| 400 | 1.8 | 0.7 | 1.0 | 1.6 | 0.5 |
| 500 | 2.4 | 0.5 | 5.0 | 1.4 | 0.7 |
| 600 | 3.1 | 1.5 | 21.0 | 0.0 | 0.6 |
| 700 | 2.5 | 2.3 | 12.0 | 2.5 | 1.1 |

STATION 80

DATE July 11, 1954 LAT. 34°39'N. LONG. 74°48'W. TIME 14
 DEPTH 3200 WIND 12, 21 BAR. 15 AIR TEMP: dry 25.6 °C, wet 24.4 °C
 HUMIDITY 91% WEATHER 60 CLOUDS: type 8, amt. 8 SEA: dir. 20, amt. 4
 SWELL: dir. 19, amt. 3 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.57 | 35.89 | 23.23 | 4.60 |
| 10 | 27.59 | 36.02 | 23.32 | 4.62 |
| 19 | 27.60 | 35.97 | 23.28 | 4.62 |
| 48 | 26.01 | 36.33 | 24.05 | 4.62 |
| 96 | 22.70 | 36.64 | 25.28 | 4.45 |
| 145 | 20.99 | 36.69 | 25.80 | 4.70 |
| 194 | 19.18 | 36.59 | 26.21 | 4.24 |
| 293 | 18.07 | 36.51 | 26.43 | 4.78 |
| 393 | 17.55 | 36.49 | 26.54 | 4.73 |
| 493 | 15.98 | 36.17 | 26.67 | 4.12 |
| 515 | 15.34 | 36.09 | 26.75 | 4.03 |
| 678 | 10.93 | 35.98* | 27.57 | 3.02 |
| 846 | 8.02 | 35.09 | 27.36 | 3.70 |
| 1010 | 5.56 | 35.10 | 27.71 | 5.10 |
| 1243 | 4.35 | 34.99 | 27.76 | 5.90 |
| 1590 | 4.67* | 34.90 | 27.66 | 5.69 |

* Value questionable

STATION 80 (cont'd)

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.57 | 35.89 | 23.23 | 4.60 |
| 10 | 27.59 | 36.02 | 23.32 | 4.62 |
| 20 | 27.55 | 35.98 | 23.30 | 4.62 |
| 30 | 27.03 | 36.12 | 23.57 | 4.62 |
| 50 | 25.84 | 36.35 | 24.12 | 4.60 |
| 75 | 23.95 | 36.54 | 24.84 | 4.47 |
| 100 | 22.56 | 36.65 | 25.33 | 4.50 |
| 150 | 20.77 | 36.68 | 25.85 | 4.63 |
| 200 | 19.10 | 36.58 | 26.22 | 4.29 |
| 250 | 18.48 | 36.54 | 26.35 | 4.62 |
| 300 | 18.07 | 36.51 | 26.43 | 4.78 |
| 400 | 17.51 | 36.47 | 26.54 | 4.68 |
| 500 | 15.78 | 36.14 | 26.69 | 4.09 |
| 600 | 12.62 | 35.74 | 27.06 | 3.95 |
| 800 | 8.78 | 35.17 | 27.31 | 3.54 |
| 1000 | 5.67 | 35.10 | 27.69 | 5.03 |
| 1200 | 4.49 | 35.01 | 27.76 | 5.81 |
| 1500 | - | 34.91 | - | 5.74 |

STATION 80

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | - | 0.6 | 0.0 | 0.0 | 0.0 |
| 10 | 0.4 | 0.1 | 0.0 | 0.0 | 1.2 |
| 19 | 0.4 | 0.0 | 0.5 | 0.0 | 0.0 |
| 48 | 1.5 | 0.3 | 0.0 | 0.1 | 0.0 |
| 96 | 1.0 | 0.2 | 0.5 | 0.3 | 0.4 |
| 145 | 0.4 | 0.3 | 0.5 | 2.6 | 0.0 |
| 194 | 3.4 | 1.2 | 0.5 | 0.9 | 0.1 |
| 293 | 2.3 | 0.5 | 3.0 | 0.1 | 0.1 |
| 393 | 1.0 | 1.1 | 2.5 | 1.7 | 0.3 |
| 493 | 1.6 | 1.3 | 5.5 | 1.6 | 0.9 |
| 515 | - | 2.4 | 11.5 | 0.5 | 0.2 |
| 678 | - | 2.1 | 26.5 | 0.8 | 0.3 |
| 846 | - | 1.7 | 12.5 | 0.1 | 0.0 |
| 1010 | 2.2 | 1.6 | 1.5 | - | 0.0 |
| 1243 | 2.2 | 1.5 | 3.0 | - | 0.1 |
| 1590 | - | 2.3 | 19.0 | 1.2 | 0.0 |

STATION 80 (cont'd)

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | PO ₄ -P ($\mu\text{g at/l}$) | NO ₃ -NO ₂ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 0 | - | 0.6 | 0.0 | 0.0 | 0.0 |
| 10 | 0.4 | 0.1 | 0.0 | 0.0 | 1.2 |
| 20 | 0.4 | 0.0 | 0.5 | 0.0 | 0.0 |
| 30 | 0.8 | 0.1 | <0.5 | <0.1 | 0.0 |
| 50 | 1.5 | 0.3 | 0.0 | 0.1 | 0.0 |
| 75 | 1.3 | 0.3 | <0.5 | 0.2 | 0.2 |
| 100 | 1.0 | 0.2 | 0.5 | 0.3 | 0.4 |
| 150 | 0.4 | 0.3 | 0.5 | 2.6 | 0.0 |
| 200 | 3.4 | 1.2 | 0.5 | 0.9 | 0.1 |
| 250 | 2.9 | 0.9 | 1.5 | 0.5 | 0.1 |
| 300 | 2.3 | 0.5 | 3.0 | 0.1 | 0.1 |
| 400 | 1.0 | 1.1 | 2.5 | 1.7 | 0.3 |
| 500 | 1.6 | 1.3 | 5.5 | 1.6 | 0.9 |
| 600 | - | 2.2 | 19.5 | 0.7 | 0.3 |
| 700 | - | 2.0 | 24.5 | 0.7 | 0.3 |
| 800 | - | 1.8 | 16.5 | 0.3 | 0.1 |
| 1000 | 2.2 | 1.6 | 1.5 | - | 0.0 |
| 1200 | 2.2 | 1.5 | 3.0 | - | 0.1 |
| 1500 | - | 2.1 | 15.0 | 1.2 | 0.0 |

STATION Standard 1

DATE June 12, 1954 LAT. 26°21'N. LONG. 76°43'W. TIME 23
 DEPTH 4938 WIND 4, 19 BAR. 15 AIR TEMP: dry 28.3°C, wet 23.9°C
 HUMIDITY 62% WEATHER 03 CLOUDS: type 8, amt. 1 SEA: dir. 19, amt. 1
 SWELL: dir. 01, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.93 | 36.82 | 23.81 | 4.54 |
| 10 | 27.35 | 36.76 | 23.95 | 4.47 |
| 20 | 26.81 | 36.75 | 24.12 | 4.54 |
| 50 | 24.94 | 36.71 | 24.67 | 4.84 |
| 100 | 22.98 | 36.61* | 25.18 | 4.82 |
| 150 | 21.74 | 36.71 | 25.61 | 4.69 |
| 200 | 19.97 | 36.67 | 26.06 | 4.48 |
| 300 | 18.47 | 36.61 | 26.40 | 4.67 |
| 400 | 17.62 | 36.47 | 26.51 | 4.46 |
| 600 | 14.35 | 35.90 | 26.82 | 3.80 |
| 800 | 10.11 | 35.32 | 27.20 | 3.32 |
| 1000 | 6.22 | 34.99 | 27.54 | 4.43 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.93 | 36.82 | 23.81 | 4.54 |
| 10 | 27.35 | 36.76 | 23.95 | 4.47 |
| 20 | 26.81 | 36.75 | 24.12 | 4.54 |
| 30 | 26.13 | 36.74 | 24.33 | 4.67 |
| 50 | 24.94 | 36.71 | 24.67 | 4.84 |
| 75 | 23.87 | 36.71 | 24.99 | 4.84 |
| 100 | 22.98 | 36.71 | 25.26 | 4.82 |
| 150 | 21.74 | 36.71 | 25.61 | 4.69 |
| 200 | 19.97 | 36.67 | 26.06 | 4.48 |
| 250 | 19.14 | 36.65 | 26.26 | 4.58 |
| 300 | 18.47 | 36.61 | 26.40 | 4.67 |
| 400 | 17.62 | 36.47 | 26.51 | 4.46 |
| 500 | 16.11 | 36.19 | 26.65 | 4.11 |
| 600 | 14.35 | 35.90 | 26.82 | 3.80 |
| 800 | 10.11 | 35.32 | 27.20 | 3.32 |
| 1000 | 6.22 | 34.99 | 27.54 | 4.43 |

STATION Standard 1

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | PO ₄ -P ($\mu\text{g at/l}$) | NO ₃ -NO ₂ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 1 | 1.3 | 0.5 | <0.5 | 0.2 | 0.3 |
| 10 | 1.0 | 0.5 | 1.0 | 1.3 | 0.8 |
| 20 | 0.8 | - | <0.5 | 0.0 | 0.5 |
| 50 | 0.8 | 0.8 | <0.5 | 0.8 | 1.2 |
| 100 | 0.6 | - | 0.5 | 3.2 | 1.4 |
| 150 | 1.2 | 0.3 | 1.0 | 0.0 | 0.1 |
| 200 | 1.9 | 0.2 | 0.5 | 1.2 | 1.1 |
| 300 | - | 1.8 | 2.0 | 0.0 | 0.3 |
| 400 | - | - | 0.5 | 0.0 | 0.8 |
| 600 | 1.6 | 1.5 | 3.0 | 4.9 | 0.4 |
| 800 | 2.2 | 1.8 | 9.5 | - | 1.2 |
| 1000 | - | 2.3 | 5.0 | - | 0.7 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | PO ₄ -P ($\mu\text{g at/l}$) | NO ₃ -NO ₂ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 0 | 1.3 | 0.5 | <0.5 | 0.2 | 0.3 |
| 10 | 1.0 | 0.5 | 1.0 | 1.3 | 0.8 |
| 20 | 0.8 | 0.6 | <0.5 | 0.0 | 0.5 |
| 30 | 0.8 | 0.7 | <0.5 | 0.3 | 0.7 |
| 50 | 0.8 | 0.8 | <0.5 | 0.8 | 1.2 |
| 75 | 0.7 | 0.7 | <0.5 | 2.0 | 1.3 |
| 100 | 0.6 | 0.6 | 0.5 | 3.2 | 1.4 |
| 150 | 1.2 | 0.3 | 1.0 | 0.0 | 0.1 |
| 200 | 1.9 | 0.2 | 0.5 | 1.2 | 1.1 |
| 250 | 1.9 | 1.0 | 1.5 | 0.6 | 0.7 |
| 300 | 1.8 | 1.8 | 2.0 | 0.0 | 0.3 |
| 400 | 1.7 | 1.7 | 0.5 | 0.0 | 0.8 |
| 500 | 1.6 | 1.6 | 2.0 | 2.5 | 0.6 |
| 600 | 1.6 | 1.5 | 3.0 | 4.9 | 0.4 |
| 700 | 1.9 | 1.7 | 6.5 | - | 0.8 |
| 800 | 2.2 | 1.8 | 9.5 | - | 1.2 |
| 1000 | - | 2.3 | 5.0 | - | 0.7 |

STATION Standard 2

DATE June 13, 1954 LAT. 26°20' N. LONG. 76°44' W. TIME 02
 DEPTH 4846 WIND 4, 19 BAR. 17 AIR TEMP: dry 27.8°C, wet 25.6°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 5, amt. 2 SEA: dir. 19, amt. 1
 SWELL: dir. 01, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.57 | 36.58 | 23.74 | 4.54 |
| 10 | 27.48 | 36.60 | 23.79 | 4.59 |
| 20 | 27.12 | 36.62 | 23.92 | 4.63 |
| 50 | 24.65 | 36.58 | 24.66 | 4.93 |
| 100 | 23.10 | 36.62 | 25.15 | 4.87 |
| 150 | 21.51 | 36.64 | 25.62 | 4.62 |
| 200 | 20.13 | 36.70 | 26.04 | 4.54 |
| 300 | 18.55 | 36.55 | 26.34 | 4.54 |
| 400 | 17.88 | 36.47 | 26.44 | 4.54 |
| 600 | 14.98 | 36.04 | 26.80 | - |
| 800 | 10.82 | 35.41 | 27.15 | - |
| 1000 | 6.74 | 35.07 | 27.53 | 4.13 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.57 | 36.58 | 23.74 | 4.54 |
| 10 | 27.48 | 36.60 | 23.79 | 4.59 |
| 20 | 27.12 | 36.62 | 23.92 | 4.63 |
| 30 | 26.17 | 36.60 | 24.21 | 4.76 |
| 50 | 24.65 | 36.58 | 24.66 | 4.93 |
| 75 | 23.88 | 36.60 | 24.91 | 4.92 |
| 100 | 23.10 | 36.62 | 25.15 | 4.87 |
| 150 | 21.51 | 36.64 | 25.62 | 4.62 |
| 200 | 20.13 | 36.70 | 26.04 | 4.54 |
| 250 | 19.23 | 36.62 | 26.22 | 4.54 |
| 300 | 18.55 | 36.55 | 26.34 | 4.54 |
| 400 | 17.88 | 36.47 | 26.44 | 4.54 |
| 500 | 16.59 | 36.28 | 26.61 | - |
| 600 | 14.98 | 36.04 | 26.80 | - |
| 800 | 10.82 | 35.41 | 27.15 | - |
| 1000 | 6.74 | 35.07 | 27.53 | 4.13 |

STATION Standard 3

DATE June 13, 1954 LAT. 26°20'N. LONG. 76°45'W. TIME 05
 DEPTH 4755 WIND 4, 16 BAR. 17 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 84% WEATHER 02 CLOUDS: type -, amt. 6 SEA: dir. 16, amt. 1
 SWELL: dir. 01, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.50 | 36.62 | 23.80 | 4.61 |
| 10 | 27.38 | 36.64 | 23.85 | 4.67 |
| 20 | 26.44 | 36.51 | 24.05 | - |
| 50 | 24.62 | 36.58 | 24.67 | - |
| 100 | 22.88 | 36.64 | 25.23 | 4.92 |
| 150 | 21.72 | 36.70 | 25.61 | 4.75 |
| 200 | 20.09 | 36.65 | 26.01 | 4.60 |
| 300 | 18.46 | 36.55 | 26.36 | - |
| 400 | 17.81 | 36.49 | 26.48 | - |
| 600 | 14.43 | 35.91 | 26.82 | 4.70* |
| 777 | 10.43 | 35.38 | 27.19 | 3.32 |
| 974 | 6.48 | 35.08 | 27.57 | 4.31 |
| 1170 | 4.71 | 35.05 | 27.77 | 5.64 |
| 1468 | - | 35.06 | - | 6.12 |
| 1968 | 3.49 | 35.05 | 27.90 | 6.10 |
| 2468 | 3.14 | 34.96* | 27.86 | 6.26 |

* Value questionable

STATION Standard 3 (cont'd)

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.50 | 36.62 | 23.80 | 4.61 |
| 10 | 27.38 | 36.64 | 23.85 | 4.67 |
| 20 | 26.44 | 36.51 | 24.05 | 4.73 |
| 30 | 25.77 | 36.54 | 24.29 | 4.79 |
| 50 | 24.62 | 36.58 | 24.67 | 4.87 |
| 75 | 23.66 | 36.61 | 24.98 | 4.92 |
| 100 | 22.88 | 36.64 | 25.23 | 4.92 |
| 150 | 21.72 | 36.70 | 25.61 | 4.75 |
| 200 | 20.09 | 36.65 | 26.01 | 4.60 |
| 250 | 19.15 | 36.60 | 26.22 | - |
| 300 | 18.46 | 36.55 | 26.36 | - |
| 400 | 17.81 | 36.49 | 26.48 | - |
| 500 | 16.50 | 36.24 | 26.60 | - |
| 600 | 14.43 | 35.91 | 26.82 | - |
| 800 | 9.86 | 35.33 | 27.25 | 3.33 |
| 1000 | 6.12 | 35.07 | 27.61 | 4.58 |
| 1200 | 4.65 | 35.05 | 27.78 | 5.75 |
| 1500 | 3.98 | 35.06 | 27.86 | 6.11 |
| 2000 | 3.46 | - | - | 6.10 |

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | 0.3 | <0.5 | 0.3 | 1.2 |
| 10 | 0.5 | - | 0.5 | 3.8 | 0.3 |
| 20 | 1.1 | 0.3 | 0.0 | 3.6 | 1.3 |
| 50 | 0.6 | 0.5 | - | 0.9 | 0.2 |
| 100 | 0.9 | - | <0.5 | 5.9 | - |
| 150 | 2.2 | - | <0.5 | 2.6 | 1.5 |
| 200 | 0.9 | 0.5 | 1.5 | 0.0 | 0.9 |
| 300 | - | 1.1 | 2.5 | 0.0 | 0.6 |
| 400 | 1.3 | - | 0.5 | 0.0 | 1.2 |
| 600 | 2.4 | 0.8 | 0.5 | 0.9 | 1.5 |
| 777 | 2.0 | 1.1 | 4.5 | - | 1.2 |
| 974 | 4.1 | 1.5 | 4.5 | 1.0 | - |
| 1170 | 3.1 | 1.6 | 12.5 | - | 1.3 |
| 1468 | 2.5 | 1.8 | 2.0 | 0.3 | 0.6 |
| 1968 | 2.4 | 1.9 | 5.0 | 2.4 | 1.1 |
| 2468 | 2.5 | - | 18.5 | 1.2 | 0.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | PO ₄ -P ($\mu\text{g at/l}$) | NO ₃ -NO ₂ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|--|---------------------|--------------------|
| 0 | 1.1 | 0.3 | <0.5 | 0.3 | 1.2 |
| 10 | 0.5 | 0.3 | 0.5 | 3.8 | 0.3 |
| 20 | 1.1 | 0.3 | 0.0 | 3.6 | 1.3 |
| 30 | 0.9 | 0.4 | - | 2.7 | 0.9 |
| 50 | 0.6 | 0.5 | - | 0.9 | 0.2 |
| 75 | 0.8 | - | - | 3.4 | 0.6 |
| 100 | 0.9 | - | <0.5 | 5.9 | 0.9 |
| 150 | 2.2 | - | <0.5 | 2.6 | 1.5 |
| 200 | 0.9 | 0.5 | 1.5 | 0.0 | 0.9 |
| 250 | 1.0 | 0.8 | 2.0 | 0.0 | 0.8 |
| 300 | 1.1 | 1.1 | 2.5 | 0.0 | 0.6 |
| 400 | 1.3 | 1.0 | 0.5 | 0.0 | 1.2 |
| 500 | 1.9 | 0.9 | 0.5 | 0.5 | 1.4 |
| 600 | 2.4 | 0.8 | 0.5 | 0.9 | 1.5 |
| 700 | 2.2 | 1.0 | 3.0 | 0.9 | 1.4 |
| 800 | 2.3 | 1.1 | 4.5 | 1.0 | 1.2 |
| 1000 | 4.0 | 1.5 | 5.5 | 1.0 | 1.3 |
| 1200 | 3.1 | 1.6 | 12.5 | 0.7 | 1.3 |
| 1500 | 2.5 | 1.8 | 2.0 | 0.3 | 0.6 |
| 2000 | 2.4 | 1.9 | 5.0 | 2.4 | 1.1 |
| 2500 | 2.5 | - | 18.5 | 1.2 | 0.2 |

STATION Standard 4

DATE June 13, 1954 LAT. 26°20' N. LONG. 76°45' W. TIME 09
 DEPTH 4572 WIND 3, 15 BAR. 15 AIR TEMP: dry 27.2 °C, wet 24.4 °C
 HUMIDITY 80% WEATHER 01 CLOUDS: type 8, amt. 3 SEA: dir. 16, amt. 1
 SWELL: dir. 01, amt. 2 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.32 | 36.56 | 23.81 | 4.59 |
| 10 | 27.33 | 36.61 | 23.84 | 4.63 |
| 20 | 26.37 | 36.47 | 24.05 | 4.69 |
| 50 | 24.90 | 36.59 | 24.59 | 4.88 |
| 100 | 22.98 | 36.62 | 25.19 | 4.86 |
| 150 | 21.89 | 36.65 | 25.52 | 4.70 |
| 200 | 20.24 | 36.73 | 26.03 | 4.54 |
| 300 | 18.49 | 36.58 | 26.38 | 4.63 |
| 400 | 17.78 | 36.45 | 26.45 | 4.56 |
| 600 | 14.39 | 35.93 | 26.84 | 3.86 |
| 800 | 9.97 | 35.31 | 27.22 | 3.29 |
| 1000 | 6.25 | 35.06 | 27.59 | 4.47 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.32 | 36.56 | 23.81 | 4.59 |
| 10 | 27.33 | 36.61 | 23.84 | 4.63 |
| 20 | 26.37 | 36.47 | 24.05 | 4.69 |
| 30 | 25.85 | 36.52 | 24.25 | 4.77 |
| 50 | 24.90 | 36.59 | 24.59 | 4.88 |
| 75 | 23.84 | 36.61 | 24.93 | 4.88 |
| 100 | 22.98 | 36.62 | 25.19 | 4.86 |
| 150 | 21.89 | 36.65 | 25.52 | 4.70 |
| 200 | 20.24 | 36.73 | 26.03 | 4.54 |
| 250 | 19.24 | 36.68 | 26.26 | 4.61 |
| 300 | 18.49 | 36.58 | 26.38 | 4.63 |
| 400 | 17.78 | 36.45 | 26.45 | 4.56 |
| 500 | 16.21 | 36.20 | 26.64 | 4.27 |
| 600 | 14.39 | 35.93 | 26.84 | 3.86 |
| 800 | 9.97 | 35.31 | 27.22 | 3.29 |
| 1000 | 6.25 | 35.06 | 27.59 | 4.47 |

STATION Standard 5

DATE June 13, 1954 LAT. 26°21'N. LONG. 76°42'W. TIME 12
 DEPTH 4755 WIND 3, 17 BAR. 17 AIR TEMP: dry 27.2°C, wet 24.4°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 8, amt. 5 SEA: dir. 17, amt. 1
 SWELL: dir. 11, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.37 | 36.62 | 23.84 | 4.62 |
| 10 | 27.38 | 36.63 | 23.84 | 4.64 |
| 20 | 26.98 | 36.55 | 23.91 | 4.69 |
| 50 | 24.78 | 36.56 | 24.61 | 4.91 |
| 100 | 23.08 | 36.58 | 25.13 | 4.87 |
| 150 | 21.79 | 36.69 | 25.58 | 4.62 |
| 200 | 20.38 | 36.71 | 25.98 | 4.61 |
| 300 | 18.50 | 36.54 | 26.34 | 4.61 |
| 400 | 17.71 | 36.46 | 26.48 | 4.54 |
| 600 | 14.08 | 35.89 | 26.88 | 4.62* |
| 800 | 9.67 | 35.30 | 27.26 | 3.38 |
| 1000 | 6.08 | 35.03 | 27.59 | 4.51 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.37 | 36.62 | 23.84 | 4.62 |
| 10 | 27.38 | 36.63 | 23.84 | 4.64 |
| 20 | 26.98 | 36.55 | 23.91 | 4.69 |
| 30 | 26.15 | 36.55 | 24.18 | 4.78 |
| 50 | 24.78 | 36.56 | 24.61 | 4.91 |
| 75 | 23.88 | 36.56 | 24.88 | 4.92 |
| 100 | 23.08 | 36.58 | 25.13 | 4.87 |
| 150 | 21.79 | 36.69 | 25.58 | 4.62 |
| 200 | 20.38 | 36.71 | 25.98 | 4.61 |
| 250 | 19.30 | 36.61 | 26.19 | 4.61 |
| 300 | 18.50 | 36.54 | 26.34 | 4.61 |
| 400 | 17.71 | 36.46 | 26.48 | 4.54 |
| 500 | 15.99 | 36.18 | 26.67 | 4.32 |
| 600 | 14.08 | 35.89 | 26.88 | 3.95 |
| 800 | 9.67 | 35.30 | 27.26 | 3.38 |
| 1000 | 6.09 | 35.03 | 27.59 | 4.51 |

STATION Standard 5

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.4 | 1.3 | 1.0 | 0.0 | - |
| 10 | 3.5 | 0.9 | 0.5 | - | 1.1 |
| 20 | 2.3 | 0.5 | 0.0 | 3.2 | 1.4 |
| 50 | 2.2 | 0.3 | <0.5 | 0.0 | 0.2 |
| 100 | 1.0 | 1.0 | 0.0 | 0.6 | - |
| 150 | 3.0 | 0.1 | 1.0 | 0.0 | - |
| 200 | 1.9 | 0.5 | 0.5 | - | - |
| 300 | 2.0 | 0.9 | <0.5 | 0.3 | 1.0 |
| 400 | 2.1 | 1.8 | 0.5 | 0.0 | 1.3 |
| 600 | 1.9 | 2.1 | 3.5 | - | 0.7 |
| 800 | 3.6 | - | 7.0 | 0.0 | 2.6 |
| 1000 | 2.9 | 0.9 | 21.5 | 0.4 | 0.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.4 | 1.3 | 1.0 | 0.0 | - |
| 10 | 3.5 | 0.9 | 0.5 | - | 1.1 |
| 20 | 2.3 | 0.5 | 0.0 | 3.2 | 1.4 |
| 30 | 2.3 | 0.4 | <0.5 | - | 1.0 |
| 50 | 2.2 | 0.3 | <0.5 | 0.0 | 0.2 |
| 75 | 1.6 | 0.7 | <0.5 | 0.3 | - |
| 100 | 1.0 | 1.0 | 0.0 | 0.6 | - |
| 150 | 3.0 | 0.1 | 1.0 | 0.0 | - |
| 200 | 1.9 | 0.5 | 0.5 | 0.1 | - |
| 250 | 2.0 | 0.7 | <0.5 | 0.2 | - |
| 300 | 2.0 | 0.9 | <0.5 | 0.3 | 1.0 |
| 400 | 2.1 | 1.8 | 0.5 | 0.0 | 1.3 |
| 500 | 2.0 | 2.0 | 2.0 | - | 1.0 |
| 600 | 1.9 | 2.1 | 3.5 | - | 0.7 |
| 700 | 2.8 | - | 5.0 | - | 1.7 |
| 800 | 3.6 | - | 7.0 | 0.0 | 2.6 |
| 1000 | 2.9 | 0.9 | 21.5 | 0.4 | 0.9 |

STATION Standard 6

DATE June 13, 1954 LAT. 26°21'N. LONG. 76°41'W. TIME 15
 DEPTH 4572 WIND 2, 17 BAR. 19 AIR TEMP: dry 27.2°C, wet 24.4°C
 HUMIDITY 80% WEATHER 02 CLOUDS: type 2, amt. 1 SEA: dir. 17, amt. 1
 SWELL: dir. 11, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.69 | 36.55 | 23.68 | 4.59 |
| 10 | 27.38 | 36.60 | 23.82 | 4.62 |
| 20 | 26.47 | 36.55 | 24.08 | 4.70 |
| 50 | 24.87 | 36.69 | 24.68 | 4.94 |
| 100 | 23.06 | 36.64 | 25.18 | 4.89 |
| 150 | 21.87 | 36.72 | 25.58 | 4.64 |
| 200 | 20.23 | 36.71 | 26.02 | 4.61 |
| 300 | 18.47 | 36.53 | 26.34 | 4.61 |
| 400 | 17.75 | 36.42 | 26.44 | 4.55 |
| 600 | 14.03 | 35.90 | 26.89 | 3.86 |
| 800 | 9.21 | 35.21 | 27.27 | 3.41 |
| 1000 | 5.94 | 35.03 | 27.61 | 4.77 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.69 | 36.55 | 23.68 | 4.59 |
| 10 | 27.38 | 36.60 | 23.82 | 4.62 |
| 20 | 26.47 | 36.55 | 24.08 | 4.70 |
| 30 | 25.89 | 36.61 | 24.30 | 4.80 |
| 50 | 24.87 | 36.69 | 24.68 | 4.94 |
| 75 | 23.89 | 36.65 | 24.94 | 4.94 |
| 100 | 23.06 | 36.64 | 25.18 | 4.89 |
| 150 | 21.87 | 36.72 | 25.58 | 4.64 |
| 200 | 20.23 | 36.71 | 26.02 | 4.61 |
| 250 | 19.22 | 36.61 | 26.21 | 4.61 |
| 300 | 18.47 | 36.53 | 26.34 | 4.61 |
| 400 | 17.75 | 36.42 | 26.44 | 4.55 |
| 500 | 16.03 | 36.18 | 26.67 | 4.35 |
| 600 | 14.03 | 35.90 | 26.89 | 3.86 |
| 800 | 9.21 | 35.21 | 27.27 | 3.41 |
| 1000 | 5.94 | 35.03 | 27.61 | 4.77 |

STATION Standard 7

DATE June 13, 1954 LAT. 26°23'N. LONG. 76°46'W. TIME 18
 DEPTH 4572 WIND 2, 17 BAR. 19 AIR TEMP: dry 27.8°C, wet 25.0°C
 HUMIDITY 80% WEATHER 03 CLOUDS: type 5, amt. 3 SEA: dir. 17, amt. 1
 SWELL: dir. 11, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.00 | 36.53 | 23.57 | 4.63 |
| 10 | 27.30 | 36.48 | 23.76 | 4.62 |
| 20 | 26.99 | 36.52 | 23.89 | 4.71 |
| 50 | 24.99 | 36.56 | 24.54 | 4.93 |
| 100 | 23.15 | 36.64 | 25.15 | 4.89 |
| 150 | 21.91 | 36.62 | 25.49 | 4.89 |
| 200 | 20.34 | 36.71 | 25.99 | 4.54 |
| 300 | 18.40 | 36.55 | 26.38 | 4.62 |
| 400 | 17.69 | 36.44 | 26.47 | 4.52 |
| 600 | 13.93 | 35.84 | 26.87 | 3.85 |
| 800 | 8.97 | 35.21 | 27.31 | 3.36 |
| 1000 | 5.96 | 34.99 | 27.57 | 4.62 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.00 | 36.53 | 23.57 | 4.63 |
| 10 | 27.30 | 36.48 | 23.76 | 4.62 |
| 20 | 26.99 | 36.52 | 23.89 | 4.71 |
| 30 | 26.25 | 36.53 | 24.13 | 4.80 |
| 50 | 24.99 | 36.56 | 24.54 | 4.93 |
| 75 | 24.00 | 36.61 | 24.88 | 4.91 |
| 100 | 23.15 | 36.64 | 25.15 | 4.89 |
| 150 | 21.91 | 36.62 | 25.49 | 4.89 |
| 200 | 20.34 | 36.71 | 25.99 | 4.54 |
| 250 | 19.22 | 36.62 | 26.22 | 4.60 |
| 300 | 18.40 | 36.55 | 26.38 | 4.62 |
| 400 | 17.69 | 36.44 | 26.47 | 4.52 |
| 500 | 15.96 | 36.14 | 26.65 | 4.20 |
| 600 | 13.93 | 35.84 | 26.87 | 3.85 |
| 800 | 8.97 | 35.21 | 27.31 | 3.36 |
| 1000 | 5.96 | 34.99 | 27.57 | 4.62 |

STATION Standard 7

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.5 | 1.1 | 0.0 | 0.0 | 0.7 |
| 10 | 1.2 | - | 0.5 | 0.3 | 0.1 |
| 20 | 1.6 | 0.6 | 0.5 | 0.4 | 0.2 |
| 50 | 4.5 | 0.5 | <0.5 | 1.6 | 0.1 |
| 100 | 2.0 | 0.6 | 0.5 | 1.3 | 2.6 |
| 150 | 0.9 | - | <0.5 | 0.0 | 1.3 |
| 200 | 1.7 | 0.9 | 1.5 | 1.9 | 1.2 |
| 300 | 2.0 | 1.1 | 0.0 | 4.5 | 0.5 |
| 400 | 2.4 | 0.9 | 2.0 | - | 1.2 |
| 600 | 2.7 | 2.3 | 4.5 | 2.2 | 0.3 |
| 800 | 2.8 | 1.4 | 3.5 | 0.4 | 0.4 |
| 1000 | 3.0 | 1.6 | 20.5 | - | 1.9 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.5 | 1.1 | 0.0 | 0.0 | 0.7 |
| 10 | 1.2 | 0.9 | 0.5 | 0.3 | 0.1 |
| 20 | 1.6 | 0.6 | 0.5 | 0.4 | 0.2 |
| 30 | 2.6 | 0.6 | <0.5 | 0.8 | 0.2 |
| 50 | 4.5 | 0.5 | <0.5 | 1.6 | 0.1 |
| 75 | 3.3 | 0.5 | <0.5 | 1.5 | 1.4 |
| 100 | 2.0 | 0.6 | 0.5 | 1.3 | 2.6 |
| 150 | 0.9 | 0.8 | <0.5 | 0.0 | 1.3 |
| 200 | 1.7 | 0.9 | 1.5 | 1.9 | 1.2 |
| 250 | 1.9 | 1.0 | 1.0 | 3.2 | 0.9 |
| 300 | 2.0 | 1.1 | 0.0 | 4.5 | 0.5 |
| 400 | 2.4 | 0.9 | 2.0 | 3.8 | 1.2 |
| 500 | 2.6 | 1.6 | 3.5 | 3.0 | 0.8 |
| 600 | 2.7 | 2.3 | 4.5 | 2.2 | 0.3 |
| 700 | 2.7 | 1.9 | 4.0 | 1.3 | 0.4 |
| 800 | 2.8 | 1.4 | 3.5 | 0.4 | 0.4 |
| 1000 | 3.0 | 1.6 | 20.5 | - | 1.9 |

STATION Standard 8

DATE June 13, 1954 LAT. 26°23'N. LONG. 76°46'W. TIME 21
 DEPTH 4572 WIND 2, 13 BAR. 18 AIR TEMP: dry 27.8°C, wet 24.4°C
 HUMIDITY 76% WEATHER 03 CLOUDS: type 4, amt. 3 SEA: dir. 13, amt. 1
 SWELL: dir. 02, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.75 | 36.47 | 23.60 | 4.68 |
| 10 | 27.26 | 36.47 | 23.76 | 4.69 |
| 20 | 26.63 | 36.45 | 23.95 | 4.80 |
| 50 | 25.21 | 36.49 | 24.42 | 4.94 |
| 100 | 23.13 | 36.73 | 25.23 | 5.03 |
| 150 | 22.00 | 36.74 | 25.56 | - |
| 200 | 20.30 | 36.79 | 26.06 | 4.70 |
| 300 | 18.47 | 36.64 | 26.43 | 4.69 |
| 400 | 17.67 | 36.55 | 26.56 | 4.56 |
| 600 | 13.95 | 35.97 | 26.96 | 4.75* |
| 800 | 8.86 | 35.24 | 27.35 | 3.36 |
| 1000 | 5.79 | 35.13 | 27.70 | 4.80 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.75 | 36.47 | 23.60 | 4.68 |
| 10 | 27.26 | 36.47 | 23.76 | 4.69 |
| 20 | 26.63 | 36.45 | 23.95 | 4.80 |
| 30 | 26.14 | 36.45 | 24.10 | 4.85 |
| 50 | 25.21 | 36.49 | 24.42 | 4.94 |
| 75 | 24.05 | 36.64 | 24.89 | 5.01 |
| 100 | 23.13 | 36.73 | 25.23 | 5.03 |
| 150 | 22.00 | 36.74 | 25.56 | 4.87 |
| 200 | 20.30 | 36.79 | 26.06 | 4.70 |
| 250 | 19.26 | 36.71 | 26.28 | 4.70 |
| 300 | 18.47 | 36.64 | 26.43 | 4.69 |
| 400 | 17.67 | 36.55 | 26.56 | 4.56 |
| 500 | 15.98 | 36.28 | 26.75 | 4.31 |
| 600 | 13.95 | 35.97 | 26.96 | 3.95 |
| 800 | 8.86 | 35.24 | 27.35 | 3.36 |
| 1000 | 5.79 | 35.13 | 27.70 | 4.80 |

STATION Standard 9

DATE June 13, 1954 LAT. 26°24'N. LONG. 76°47'W. TIME 24
 DEPTH 4443 WIND 3, 09 BAR. 17 AIR TEMP: dry 27.2°C, wet 24.4°C
 HUMIDITY 80% WEATHER 02 CLOUDS: type 4, amt. 3 SEA: dir. 13, amt. 1
 SWELL: dir. 35, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.97 | 36.73 | 23.73 | 4.55 |
| 10 | 27.47 | 36.69 | 23.86 | 4.68 |
| 20 | 26.85 | 36.66 | 24.04 | 4.69 |
| 50 | 24.68 | 36.61 | 24.68 | 5.00 |
| 100 | 23.17 | 36.69 | 25.18 | 4.91 |
| 150 | 21.82 | 36.74 | 25.61 | 4.70 |
| 200 | 20.45 | 36.80 | 26.03 | 4.64 |
| 300 | 18.41 | 36.65 | 26.45 | 4.65 |
| 400 | 17.68 | 36.53 | 26.54 | 4.61 |
| 600 | 14.24 | 35.98 | 26.91 | 3.86 |
| 800 | 9.35 | 35.32 | 27.33 | 3.41 |
| 1000 | 6.08 | 35.12 | 27.66 | 4.54 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.97 | 36.73 | 23.73 | 4.55 |
| 10 | 27.47 | 36.69 | 23.86 | 4.68 |
| 20 | 26.85 | 36.66 | 24.04 | 4.69 |
| 30 | 26.02 | 36.64 | 24.28 | 4.82 |
| 50 | 24.68 | 36.61 | 24.68 | 5.00 |
| 75 | 23.91 | 36.65 | 24.94 | 4.97 |
| 100 | 23.17 | 36.69 | 25.18 | 4.91 |
| 150 | 21.82 | 36.74 | 25.61 | 4.70 |
| 200 | 20.45 | 36.80 | 26.03 | 4.64 |
| 250 | 19.27 | 36.72 | 26.28 | 4.65 |
| 300 | 18.41 | 36.65 | 26.45 | 4.65 |
| 400 | 17.68 | 36.53 | 26.54 | 4.61 |
| 500 | 16.14 | 36.27 | 26.71 | 4.27 |
| 600 | 14.24 | 35.98 | 26.91 | 3.86 |
| 800 | 9.35 | 35.32 | 27.33 | 3.41 |
| 1000 | 6.08 | 35.12 | 27.66 | 4.54 |

STATION Standard 10

DATE June 14, 1954 LAT. 26°24'N. LONG. 76°47'W. TIME 02
 DEPTH 4206 WIND 4, 11 BAR. 18 AIR TEMP: dry 27.2°C, wet 24.4°C
 HUMIDITY 80% WEATHER 02 CLOUDS: type 3, amt. 3 SEA: dir. 16, amt. 2
 SWELL: dir. 35, amt. 1 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.68 | 36.64 | 23.75 | 4.61 |
| 10 | 27.58 | 36.62 | 23.77 | 4.53 |
| 19 | 26.95 | 36.56 | 23.93 | 4.63 |
| 46 | 25.78 | 36.58 | 24.31 | 4.74 |
| 95 | 23.44 | 36.67* | 25.09 | 4.88 |
| 143 | 22.12 | 36.65 | 25.46 | 4.87 |
| 191 | 20.58 | 36.73 | 25.94 | 4.69 |
| 290 | 18.56 | 36.62 | 26.39 | 4.54 |
| 382 | 17.79 | 36.55 | 26.53 | 4.46 |
| 575 | 14.57 | 36.00 | 26.85 | 4.66* |
| 770 | 9.98 | 35.33 | 27.23 | 3.19 |
| 965 | 6.50 | 35.08 | 27.57 | 4.22 |

*Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.68 | 36.64 | 23.75 | 4.61 |
| 10 | 27.58 | 36.62 | 23.77 | 4.53 |
| 20 | 26.91 | 36.56 | 23.94 | 4.63 |
| 30 | 26.48 | 36.57 | 24.09 | 4.68 |
| 50 | 25.55 | 36.58 | 24.39 | 4.76 |
| 75 | 24.27 | 36.60 | 24.79 | 4.84 |
| 100 | 23.31 | 36.62 | 25.09 | 4.89 |
| 150 | 21.88 | 36.67 | 25.54 | 4.86 |
| 200 | 20.35 | 36.72 | 26.00 | 4.67 |
| 250 | 19.23 | 36.66 | 26.25 | 4.59 |
| 300 | 18.50 | 36.62 | 26.40 | 4.53 |
| 400 | 17.55 | 36.50 | 26.55 | 4.48 |
| 500 | 15.98 | 36.23 | 26.72 | 4.16 |
| 600 | 13.92 | 35.89 | 26.91 | 3.75 |
| 800 | 9.37 | 35.26 | 27.28 | 3.23 |

STATION Standard 11

DATE June 14, 1954 LAT. 26°20'N. LONG. 76°47'W. TIME 05
 DEPTH 4206 WIND 7, 21 BAR. 17 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 5, amt. 3 SEA: dir. 21, amt. 2
 SWELL: dir. 36, amt. 1 VIS. - WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.51 | 36.55 | 23.74 | 4.59 |
| 10 | 27.46 | 36.56 | 23.77 | 4.61 |
| 20 | 27.33 | 36.58 | 23.82 | 4.62 |
| 50 | 25.63 | 36.57 | 24.35 | 4.83 |
| 100 | 23.54 | 36.60 | 25.01 | 5.01 |
| 150 | 22.11* | 36.65 | 25.46 | 4.87 |
| 200 | 20.43 | 36.71 | 25.97 | 4.62 |
| 300 | 18.35 | 36.60 | 26.43 | 4.62 |
| 400 | 17.60 | 36.53 | 26.56 | 4.46 |
| 600 | 13.80 | 35.88 | 26.93 | 3.79 |
| 800 | 9.11 | 35.23 | 27.30 | 3.36 |
| 1000 | 5.84 | 35.12 | 27.69 | 4.73 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.51 | 36.55 | 23.74 | 4.59 |
| 10 | 27.46 | 36.56 | 23.77 | 4.61 |
| 20 | 27.33 | 36.58 | 23.82 | 4.62 |
| 30 | 26.73 | 36.57 | 24.01 | 4.67 |
| 50 | 25.63 | 36.57 | 24.35 | 4.83 |
| 75 | 24.50 | 36.58 | 24.71 | 4.96 |
| 100 | 23.54 | 36.60 | 25.01 | 5.01 |
| 150 | 21.90 | 36.65 | 25.52 | 4.87 |
| 200 | 20.43 | 36.71 | 25.97 | 4.62 |
| 250 | 19.22 | 36.65 | 26.24 | 4.62 |
| 300 | 18.35 | 36.60 | 26.43 | 4.62 |
| 400 | 17.60 | 36.53 | 26.56 | 4.46 |
| 500 | 15.81 | 36.21 | 26.74 | 4.18 |
| 600 | 13.80 | 35.88 | 26.93 | 3.79 |
| 800 | 9.11 | 35.23 | 27.30 | 3.36 |
| 1000 | 5.84 | 35.12 | 27.69 | 4.73 |

STATION Standard 12

DATE June 14, 1954 LAT. 26°20'N. LONG. 76°47'W. TIME 08
 DEPTH 4206 WIND 4, 21 BAR. 17 AIR TEMP: dry 25.0°C, wet 23.3°C
 HUMIDITY 87% WEATHER 02 CLOUDS: type -, amt. 2 SEA: dir. 21, amt. 1
 SWELL: dir. 35, amt. 1 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.49 | 36.45 | 23.67 | 4.62 |
| 10 | 27.50 | 36.49 | 23.70 | 4.62 |
| 20 | 27.33 | 36.64* | 23.87 | 4.65 |
| 50 | 25.66 | 36.58 | 24.35 | 4.87 |
| 100 | 23.40 | 36.69 | 25.12 | 5.04 |
| 150 | 21.96 | 36.62 | 25.48 | 4.87 |
| 200 | 20.59 | 36.69 | 25.91 | 4.74 |
| 300 | 18.47 | 36.60 | 26.40 | 4.62 |
| 400 | 17.59 | 36.62* | 26.63 | 4.46 |
| 600 | 13.38 | 35.88 | 27.01 | 3.74 |
| 800 | 8.88 | 35.28 | 27.38 | 3.45 |
| 1000 | 5.45 | 35.17 | 27.78 | 5.04 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.49 | 36.45 | 23.67 | 4.62 |
| 10 | 27.50 | 36.49 | 23.70 | 4.62 |
| 20 | 27.33 | 36.51 | 23.77 | 4.65 |
| 30 | 26.95 | 36.53 | 23.91 | 4.70 |
| 50 | 25.66 | 36.58 | 24.35 | 4.87 |
| 75 | 24.43 | 36.66 | 24.79 | 5.00 |
| 100 | 23.40 | 36.69 | 25.12 | 5.04 |
| 150 | 21.96 | 36.62 | 25.48 | 4.87 |
| 200 | 20.59 | 36.69 | 25.91 | 4.74 |
| 250 | 19.38 | 36.66 | 26.21 | 4.69 |
| 300 | 18.47 | 36.60 | 26.40 | 4.62 |
| 400 | 17.59 | 36.53 | 26.56 | 4.46 |
| 500 | 15.52 | 36.25 | 26.84 | 4.13 |
| 600 | 13.38 | 35.88 | 27.01 | 3.74 |
| 800 | 8.88 | 35.28 | 27.38 | 3.45 |
| 1000 | 5.45 | 35.17 | 27.78 | 5.04 |

STATION Standard 13

DATE June 14, 1954 LAT. 26°20'N. LONG. 76°40'W. TIME 11
 DEPTH 4938 WIND 2, 20 BAR. 17 AIR TEMP: dry 26.7°C, wet 23.9°C
 HUMIDITY 79% WEATHER 01 CLOUDS: type 5, amt. 3 SEA: dir. 21, amt. 1
 SWELL: dir. 35, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.53 | 36.69 | 23.84 | 4.62 |
| 10 | 27.51 | 36.71 | 23.86 | 4.63 |
| 20 | 26.96 | 36.70 | 24.03 | 4.73 |
| 50 | 25.11 | 36.70 | 24.61 | 4.99 |
| 100 | 23.36 | 36.82 | 25.23 | 4.99 |
| 150 | 21.39 | 36.75 | 25.74 | 4.83 |
| 200 | 20.25 | 36.77 | 26.06 | 4.65 |
| 300 | 18.44 | 36.64 | 26.43 | 4.56 |
| 400 | 17.49 | 36.53 | 26.59 | 4.48 |
| 600 | 14.04 | 35.93 | 26.91 | 3.86 |
| 800 | 9.36 | 35.34 | 27.34 | 3.37 |
| 1000 | 5.98 | 35.10 | 27.66 | 4.72 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.53 | 36.69 | 23.84 | 4.62 |
| 10 | 27.51 | 36.71 | 23.86 | 4.63 |
| 20 | 26.96 | 36.70 | 24.03 | 4.73 |
| 30 | 26.28 | 36.70 | 24.25 | 4.84 |
| 50 | 25.11 | 36.70 | 24.61 | 4.99 |
| 75 | 24.26 | 36.76 | 24.92 | 4.99 |
| 100 | 23.36 | 36.82 | 25.23 | 4.99 |
| 150 | 21.39 | 36.75 | 25.74 | 4.83 |
| 200 | 20.25 | 36.77 | 26.06 | 4.65 |
| 250 | 19.24 | 36.70 | 26.28 | 4.60 |
| 300 | 18.44 | 36.64 | 26.43 | 4.56 |
| 400 | 17.49 | 36.53 | 26.59 | 4.48 |
| 500 | 15.92 | 36.28 | 26.77 | 4.18 |
| 600 | 14.04 | 35.93 | 26.91 | 3.86 |
| 800 | 9.36 | 35.34 | 27.34 | 3.37 |
| 1000 | 5.98 | 35.10 | 27.66 | 4.72 |

STATION Standard 14

DATE June 14, 1954 LAT. 26°20'N. LONG. 76°41'W. TIME 14
 DEPTH 4755 WIND 0, 00 BAR. 19 AIR TEMP: dry 26.1°C, wet 23.3°C
 HUMIDITY 79% WEATHER 03 CLOUDS: type 8, amt. 6 SEA: dir. -, amt. -
 SWELL: dir. 30, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.48 | 36.71 | 23.87 | 4.63 |
| 10 | 27.45 | 36.70 | 23.87 | 4.70 |
| 20 | 27.39 | 36.69 | 23.89 | 4.69 |
| 50 | 25.58 | 36.68 | 24.45 | 4.91 |
| 100 | 23.36 | 36.78 | 25.20 | 5.00 |
| 150 | 21.61 | 36.78 | 25.70 | 4.83 |
| 200 | 20.35 | 36.76 | 26.03 | 4.72 |
| 300 | 18.37 | 36.68* | 26.48 | 4.63 |
| 400 | 17.64 | 36.47 | 26.50 | 4.50 |
| 600 | 13.92 | 35.88 | 26.90 | 3.82 |
| 800 | 9.16 | 35.22 | 27.28 | 3.38 |
| 1000 | 5.82 | 35.06 | 27.64 | 4.76 |

* Value questionable

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.48 | 36.71 | 23.87 | 4.63 |
| 10 | 27.45 | 36.70 | 23.87 | 4.70 |
| 20 | 27.39 | 36.69 | 23.89 | 4.69 |
| 30 | 26.75 | 36.68 | 24.08 | 4.74 |
| 50 | 25.58 | 36.68 | 24.45 | 4.91 |
| 75 | 24.41 | 36.74 | 24.86 | 4.97 |
| 100 | 23.36 | 36.78 | 25.20 | 5.00 |
| 150 | 21.61 | 36.78 | 25.70 | 4.83 |
| 200 | 20.35 | 36.76 | 26.03 | 4.72 |
| 250 | 19.20 | 36.69 | 26.28 | 4.68 |
| 300 | 18.37 | 36.60 | 26.42 | 4.63 |
| 400 | 17.64 | 36.47 | 26.50 | 4.50 |
| 500 | 15.91 | 36.18 | 26.69 | 4.22 |
| 600 | 13.92 | 35.88 | 26.90 | 3.82 |
| 800 | 9.16 | 35.22 | 27.28 | 3.38 |
| 1000 | 5.82 | 35.06 | 27.64 | 4.76 |

STATION Standard 15

DATE June 14, 1954 LAT. 26°20'N. LONG. 76°42'W. TIME 17
 DEPTH 4572 WIND 3, 14 BAR. 18 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 5, amt. 7 SEA: dir. 12, amt. 1
 SWELL: dir. 30, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.57 | 36.65 | 23.80 | 4.70 |
| 10 | 27.40 | 36.64 | 23.84 | 4.64 |
| 20 | 27.33 | 36.62 | 23.85 | 4.62 |
| 50 | 25.22 | 36.63 | 24.53 | 4.91 |
| 100 | 23.31 | 36.71 | 25.16 | 4.96 |
| 150 | 21.51 | 36.66 | 25.63 | 4.87 |
| 199 | 20.37 | 36.73 | 26.00 | 4.62 |
| 299 | 18.49 | 36.57 | 26.37 | 4.51 |
| 398 | 17.66 | 36.46 | 26.49 | 4.54 |
| 598 | 14.06 | 35.89 | 26.88 | 3.96 |
| 796 | 9.34 | 35.21 | 27.25 | 3.36 |
| 992 | 5.95 | 35.03 | 27.60 | 4.70 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.57 | 36.65 | 23.80 | 4.70 |
| 10 | 27.40 | 36.64 | 23.84 | 4.64 |
| 20 | 27.33 | 36.62 | 23.85 | 4.62 |
| 30 | 26.52 | 36.62 | 24.11 | 4.65 |
| 50 | 25.22 | 36.63 | 24.53 | 4.91 |
| 75 | 24.25 | 36.69 | 24.87 | 4.95 |
| 100 | 23.31 | 36.71 | 25.16 | 4.96 |
| 150 | 21.51 | 36.66 | 25.63 | 4.84 |
| 200 | 20.35 | 36.72 | 26.00 | 4.61 |
| 250 | 19.28 | 36.65 | 26.23 | 4.54 |
| 300 | 18.46 | 36.57 | 26.38 | 4.52 |
| 400 | 17.64 | 36.45 | 26.49 | 4.52 |
| 500 | 16.00 | 36.19 | 26.68 | 4.35 |
| 600 | 14.01 | 35.88 | 26.88 | 3.92 |
| 800 | 9.26 | 35.19 | 27.24 | 3.38 |

STATION Special 5

DATE June 11, 1954 LAT. 30°00' N. LONG. 77°00' W. TIME 01
 DEPTH 969 WIND 5, 19 BAR. 13 AIR TEMP: dry 26.7°C, wet 25.0°C
 HUMIDITY 87% WEATHER 01 CLOUDS: type 8, amt. 6 SEA: dir. 19, amt. 2
 SWELL: dir. 26, amt. 1 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.22 | 36.34 | 24.00 | 4.66 |
| 7 | 25.36 | 36.33 | 24.26 | 4.73 |
| 15 | 25.08 | 36.42 | 24.41 | - |
| 39 | 23.60 | 36.60 | 24.99 | 4.96 |
| 80 | 21.82 | 36.71 | 25.59 | 5.12 |
| 121 | 20.71 | 36.82 | 25.98 | - |
| 165 | 20.06 | 36.80 | 26.14 | - |
| 247 | 18.52 | 36.69 | 26.45 | - |
| 330 | 17.89 | 36.60 | 26.54 | 4.39 |
| 500 | 15.71 | 36.33 | 26.85 | 4.07 |
| 675 | 11.77 | 35.70 | 27.19 | 3.47 |
| 764 | 9.62 | 35.44 | 27.38 | 2.96 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.22 | 36.34 | 24.00 | 4.66 |
| 10 | 25.27 | 36.37 | 24.31 | 4.76 |
| 20 | 24.74 | 36.46 | 24.54 | 4.83 |
| 30 | 24.12 | 36.54 | 24.79 | 4.92 |
| 50 | 23.06 | 36.63 | 25.17 | 5.04 |
| 75 | 22.00 | 36.70 | 25.53 | 5.10 |
| 100 | 21.22 | 36.78 | 25.81 | - |
| 150 | 20.30 | 36.81 | 26.08 | - |
| 200 | 19.29 | 36.75 | 26.30 | - |
| 250 | 18.50 | 36.69 | 26.46 | - |
| 300 | 18.15 | 36.64 | 26.51 | - |
| 400 | 17.19 | 36.53 | 26.66 | 4.27 |
| 500 | 15.71 | 36.33 | 26.85 | 4.07 |
| 600 | 13.51 | 35.95 | 27.04 | 3.79 |

STATION Special 5

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.9 | 1.9 | 0.5 | 0.6 | 1.6 |
| 7 | 1.0 | 2.9* | 0.5 | 2.7 | 0.8 |
| 15 | 1.0 | 1.1 | <0.5 | 2.8 | 1.5 |
| 39 | 1.3 | 1.2 | 0.5 | 0.0 | - |
| 80 | 1.5 | 1.2 | <0.5 | 0.7 | 1.6 |
| 121 | 1.5 | 0.4 | 2.0 | 0.0 | 1.5 |
| 165 | 1.3 | 0.6 | 0.5 | 2.5 | 0.4 |
| 247 | 1.0 | 0.7 | 4.0 | 0.0 | 0.3 |
| 330 | 1.3 | 0.6 | 1.0 | 0.0 | 2.1 |
| 500 | 1.7 | 0.9 | 8.5 | 1.2 | 1.3 |
| 675 | 2.4 | 1.5 | 10.5 | 1.1 | 0.8 |
| 764 | 2.9 | 4.8* | 10.5 | 1.0 | 0.3 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.9 | 1.9 | 0.5 | 0.6 | 1.6 |
| 10 | 1.0 | - | <0.5 | 2.8 | 1.1 |
| 20 | 1.1 | 1.1 | <0.5 | 2.3 | 1.5 |
| 30 | 1.2 | 1.2 | <0.5 | 1.1 | 1.6 |
| 50 | 1.4 | 1.2 | 0.5 | 0.2 | 1.6 |
| 75 | 1.5 | 1.2 | <0.5 | 0.6 | 1.6 |
| 100 | 1.5 | 0.8 | 1.0 | 0.4 | 1.6 |
| 150 | 1.4 | 0.6 | 1.0 | 1.7 | 0.8 |
| 200 | 1.2 | 0.7 | 2.0 | 1.4 | 0.4 |
| 250 | 1.0 | 0.7 | 4.0 | 0.0 | 0.3 |
| 300 | 1.2 | 0.7 | 2.0 | 0.0 | 1.5 |
| 400 | 1.5 | 0.8 | 4.0 | 0.5 | 1.8 |
| 500 | 1.7 | 0.9 | 8.5 | 1.2 | 1.3 |
| 600 | 2.1 | 1.3 | 9.5 | 1.2 | 1.0 |
| 700 | 2.6 | 1.5 | 10.5 | 1.1 | 0.7 |

STATION Special 6

DATE June 11, 1954 LAT. 29°00' N. LONG. 77°00' W. TIME 11
 DEPTH 1079 WIND 3, 27 BAR. 12 AIR TEMP: dry 26.1°C, wet 25.0°C
 HUMIDITY 91% WEATHER 60 CLOUDS: type 3, amt. 7 SEA: dir. 27, amt. 1
 SWELL: dir. 23, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.45 | 36.24 | 23.85 | 4.43 |
| 9 | 26.48 | 36.35 | 23.92 | 4.60 |
| 19 | 25.72 | 36.37 | 24.17 | 4.72 |
| 47 | 24.53 | 36.64 | 24.74 | - |
| 95 | 22.61 | 36.75 | 25.39 | 4.94 |
| 142 | 21.45 | 36.86 | 25.80 | - |
| 190 | 19.95 | 36.85 | 26.20 | - |
| 287 | 16.47 | 36.41 | 26.74 | 3.99 |
| 384 | 13.92 | 36.01 | 27.00 | 3.80 |
| 579 | 10.63 | 35.52 | 27.27 | 3.44 |
| 775 | 7.46 | 35.21 | 27.54 | 4.26 |
| 972 | 4.90 | 35.16 | 27.84 | - |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.45 | 36.24 | 23.85 | 4.43 |
| 10 | 26.40 | 36.35 | 23.95 | 4.61 |
| 20 | 25.68 | 36.38 | 24.19 | 4.73 |
| 30 | 25.25 | 36.49 | 24.41 | 4.77 |
| 50 | 24.39 | 36.65 | 24.79 | 4.85 |
| 75 | 23.32 | 36.70 | 25.15 | 4.91 |
| 100 | 22.50 | 36.77 | 25.44 | - |
| 150 | 21.21 | 36.87 | 25.88 | - |
| 200 | 19.55 | 36.80 | 26.27 | - |
| 250 | 17.69 | 36.57 | 26.57 | - |
| 300 | 16.09 | 36.35 | 26.78 | 3.96 |
| 400 | 13.64 | 35.96 | 27.02 | 3.77 |
| 500 | 11.95 | 35.70 | 27.16 | 3.55 |
| 600 | 10.26 | 35.47 | 27.29 | 3.47 |
| 800 | 7.10 | 35.19 | 27.57 | - |

STATION Special 6

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.1 | - | 0.5 | - | 0.8 |
| 9 | 1.1 | 0.9 | 1.0 | 4.7 | - |
| 19 | 1.7 | 0.7 | 0.5 | 1.2 | 1.4 |
| 47 | 1.3 | 0.6 | 1.0 | - | 1.1 |
| 95 | 1.4 | - | 0.5 | 1.6 | 1.4 |
| 142 | 1.1 | 0.6 | 0.5 | 2.2 | 1.2 |
| 190 | 1.7 | 0.6 | 3.0 | 0.0 | 1.0 |
| 287 | 2.0 | 1.0 | 2.5 | 0.0 | 1.2 |
| 384 | 1.7 | 1.2 | 16.0 | - | 0.7 |
| 579 | 3.3 | 3.0 | 15.5 | 0.2 | 0.3 |
| 775 | - | 2.3 | 25.0 | 0.0 | 0.7 |
| 968 | 2.6 | 2.8 | 21.0 | 0.1 | 0.5 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.1 | - | 0.5 | - | 0.8 |
| 10 | 1.1 | 0.9 | 1.0 | 4.7 | 1.1 |
| 20 | 1.7 | 0.7 | 0.5 | 1.2 | 1.4 |
| 30 | 1.5 | 0.7 | 1.0 | 1.3 | 1.3 |
| 50 | 1.3 | 0.6 | 1.0 | 1.4 | 1.1 |
| 75 | 1.4 | 0.6 | 1.0 | 1.5 | 1.3 |
| 100 | 1.4 | 0.6 | 0.5 | 1.6 | 1.4 |
| 150 | 1.2 | 0.6 | 0.5 | 2.2 | 1.2 |
| 200 | 1.7 | 0.6 | 3.0 | 0.0 | 1.0 |
| 250 | 1.9 | 0.9 | 2.5 | 0.0 | 1.1 |
| 300 | 2.0 | 1.1 | 4.5 | 0.0 | 1.2 |
| 400 | 1.8 | 1.4 | 16.0 | 0.1 | 0.7 |
| 500 | 2.7 | 2.3 | 15.5 | 0.2 | 0.5 |
| 600 | 3.3 | 3.0 | 16.5 | 0.2 | 0.4 |
| 700 | 3.1 | 2.6 | 21.5 | 0.1 | 0.6 |
| 800 | 2.9 | 2.4 | 24.5 | 0.0 | 0.7 |

STATION Special 7

DATE June 11, 1954 LAT. 28°07'N. LONG. 76°32'W. TIME 20
 DEPTH 4937 WIND 4, 26 BAR. 11 AIR TEMP: dry 28.3°C, wet 25.0°C
 HUMIDITY 77% WEATHER 01 CLOUDS: type -, amt. 0 SEA: dir. 26, amt. 1
 SWELL: dir. 08, amt. 2 VIS. 8 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 26.75 | 36.36 | 23.84 | 4.62 |
| 10 | 26.65 | 36.38 | 23.89 | 4.63 |
| 20 | 25.91 | 36.42 | 24.15 | 4.70 |
| 50 | 24.65 | 36.70 | 24.75 | 4.91 |
| 100 | 22.98 | 36.74 | 25.28 | 4.92 |
| 150 | 21.97 | 36.72 | 25.55 | 4.88 |
| 200 | 20.09 | 36.72 | 26.07 | 5.02 |
| 300 | 18.57 | 36.71 | 26.46 | 4.76 |
| 400 | 18.06 | 36.67 | 26.55 | 4.70 |
| 600 | 15.62 | 36.26 | 26.82 | 4.12 |
| 800 | 11.48 | 35.62 | 27.19 | 3.61 |
| 1000 | 7.11 | 35.22 | 27.60 | 3.95 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 26.75 | 36.36 | 23.84 | 4.62 |
| 10 | 26.65 | 36.38 | 23.89 | 4.63 |
| 20 | 25.91 | 36.42 | 24.15 | 4.70 |
| 30 | 25.47 | 36.53 | 24.37 | 4.79 |
| 50 | 24.65 | 36.70 | 24.75 | 4.91 |
| 75 | 23.73 | 36.73 | 25.05 | 4.92 |
| 100 | 22.98 | 36.74 | 25.28 | 4.92 |
| 150 | 21.97 | 36.72 | 25.55 | 4.88 |
| 200 | 20.09 | 36.72 | 26.07 | 5.02 |
| 250 | 19.07 | 36.72 | 26.33 | 4.87 |
| 300 | 18.57 | 36.71 | 26.46 | 4.76 |
| 400 | 18.06 | 36.67 | 26.55 | 4.70 |
| 500 | 17.05 | 36.51 | 26.68 | 4.47 |
| 600 | 15.62 | 36.26 | 26.82 | 4.12 |
| 800 | 11.48 | 35.62 | 27.19 | 3.61 |
| 1000 | 7.11 | 35.22 | 27.60 | 3.95 |

STATION Special 7

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.9 | 1.3 | 0.0 | 0.2 | 0.1 |
| 10 | 1.1 | 0.3 | 0.0 | 1.4 | 0.4 |
| 20 | 1.7 | 0.9 | 0.0 | 13.4 | 0.7 |
| 50 | - | 1.6 | 0.0 | 0.1 | - |
| 100 | - | 1.3 | 1.0 | 3.4 | 0.0 |
| 150 | 1.2 | 0.6 | 0.5 | 0.0 | 1.1 |
| 200 | 1.1 | 0.2 | 0.0 | 0.0 | 3.9 |
| 300 | 1.3 | 0.8 | 1.5 | 0.0 | 1.0 |
| 400 | 2.1 | 2.1 | 3.0 | - | 0.4 |
| 600 | 2.2 | 1.0 | 7.5 | 11.9 | 1.1 |
| 800 | 2.3 | 2.2 | 3.5 | - | 0.1 |
| 1000 | 3.1 | 3.0 | 19.5 | 0.8 | 0.4 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.9 | 1.3 | 0.0 | 0.2 | 0.1 |
| 10 | 1.1 | 0.3 | 0.0 | 1.4 | 0.4 |
| 20 | 1.7 | 0.9 | 0.0 | 13.4 | 0.7 |
| 30 | - | 1.1 | 0.0 | - | - |
| 50 | - | 1.6 | 0.0 | 0.1 | - |
| 75 | - | 1.5 | 0.5 | 1.7 | - |
| 100 | - | 1.3 | 1.0 | 3.4 | 0.0 |
| 150 | 1.2 | 0.6 | 0.5 | 0.0 | 1.1 |
| 200 | 1.1 | 0.2 | 0.0 | 0.0 | 3.9 |
| 250 | 1.2 | 0.5 | 1.0 | 0.0 | 2.5 |
| 300 | 1.3 | 0.8 | 1.5 | 0.0 | 1.0 |
| 400 | 2.1 | 2.1 | 3.0 | - | 0.4 |
| 500 | 2.2 | 1.6 | 5.0 | - | 0.8 |
| 600 | 2.2 | 1.0 | 7.5 | 11.9 | 1.1 |
| 700 | 2.3 | 1.6 | 5.5 | - | 0.6 |
| 800 | 2.3 | 2.2 | 3.5 | - | 0.1 |
| 1000 | 3.1 | 3.0 | 19.5 | 0.8 | 0.4 |

STATION Special 8

DATE June 12, 1954 LAT. 28°00'N. LONG. 78°00'W. TIME 07
 DEPTH 1033 WIND 2, 28 BAR. 13 AIR TEMP: dry 27.2°C, wet 25.0°C
 HUMIDITY 84% WEATHER 03 CLOUDS: type 4, amt. 1 SEA: dir. -, amt. -
 SWELL: dir. 06, amt. 1 VIS. 7 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.50 | 36.31 | 23.56 | 4.89 |
| 10 | 27.29 | 36.33 | 23.65 | 4.95 |
| 20 | 26.81 | 36.25 | 23.74 | 4.69 |
| 50 | 25.22 | 36.47 | 24.40 | 4.57 |
| 100 | 23.44 | 36.78 | 25.17 | 4.69 |
| 150 | 21.79 | 36.76 | 25.63 | - |
| 200 | 20.09 | 36.82 | 26.14 | 4.54 |
| 300 | 18.36 | 36.64 | 26.45 | 4.61 |
| 400 | 17.50 | 36.57 | 26.61 | 4.40 |
| 600 | 13.67 | 35.91 | 26.98 | 4.61 |
| 800 | 8.86 | 35.34 | 27.43 | 3.33 |
| 1000 | 4.65 | 35.17 | 27.87 | 5.62 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|--------------|--------------|--------------|--------------------------|
| 0 | 27.50 | 36.31 | 23.56 | 4.89 |
| 10 | 27.29 | 36.33 | 23.65 | 4.95 |
| 20 | 26.81 | 36.25 | 23.74 | 4.69 |
| 30 | 26.24 | 36.33 | 23.98 | 4.63 |
| 50 | 25.22 | 36.47 | 24.40 | 4.57 |
| 75 | 24.31 | 36.67 | 24.83 | 4.65 |
| 100 | 23.44 | 36.78 | 25.17 | 4.69 |
| 150 | 21.79 | 36.76 | 25.63 | 4.59 |
| 200 | 20.09 | 36.82 | 26.14 | 4.54 |
| 250 | 19.00 | 36.72 | 26.35 | 4.57 |
| 300 | 18.36 | 36.64 | 26.45 | 4.61 |
| 400 | 17.50 | 36.57 | 26.61 | 4.40 |
| 500 | 15.71 | 36.23 | 26.78 | 4.49 |
| 600 | 13.67 | 35.91 | 26.98 | 4.61 |
| 800 | 8.86 | 35.34 | 27.43 | 3.33 |
| 1000 | 4.65 | 35.17 | 27.87 | 5.62 |

STATION Special 8

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 2.9 | 1.7 | 0.5 | 0.5 | 0.4 |
| 10 | 0.6 | 0.6 | 0.0 | 1.5 | 3.9 |
| 20 | 0.8 | 0.7 | 1.0 | - | 1.6 |
| 50 | - | 0.7 | <0.5 | - | 1.3 |
| 100 | 0.6 | - | <0.5 | 0.4 | 1.0 |
| 150 | 0.6 | - | 0.5 | 0.0 | 1.1 |
| 200 | 1.0 | - | <0.5 | 0.2 | 0.6 |
| 300 | 0.9 | 0.7 | 1.0 | 0.1 | 1.0 |
| 400 | - | 1.2 | 0.5 | 0.0 | 1.6 |
| 600 | 2.3 | 1.7 | 1.5 | 0.2 | 1.3 |
| 800 | 2.0 | - | 6.0 | 7.8 | 1.8 |
| 1000 | 2.2 | - | 2.0 | 0.0 | 1.2 |

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 2.9 | 1.7 | 0.5 | 0.5 | 0.4 |
| 10 | 0.6 | 0.6 | 0.0 | 1.5 | 3.9 |
| 20 | 0.8 | 0.7 | 1.0 | - | 1.6 |
| 30 | 0.8 | 0.7 | 1.0 | - | 1.5 |
| 50 | 0.7 | 0.7 | <0.5 | - | 1.3 |
| 75 | 0.7 | - | <0.5 | - | 1.2 |
| 100 | 0.6 | - | <0.5 | 0.4 | 1.0 |
| 150 | 0.6 | - | 0.5 | 0.0 | 1.1 |
| 200 | 1.0 | - | <0.5 | 0.2 | 0.6 |
| 250 | 1.0 | - | 0.5 | 0.2 | 0.8 |
| 300 | 0.9 | 0.7 | 1.0 | 0.1 | 1.0 |
| 400 | 1.4 | 1.2 | 0.5 | 0.0 | 1.6 |
| 500 | 1.9 | 1.5 | 1.0 | 0.1 | 1.5 |
| 600 | 2.3 | 1.7 | 1.5 | 0.2 | 1.3 |
| 700 | 2.2 | - | 3.5 | - | 1.6 |
| 800 | 2.0 | - | 6.0 | 7.8 | 1.8 |
| 1000 | 2.2 | - | 2.0 | 0.0 | 1.2 |

STATION Special 9

DATE June 24, 1954 LAT. 27°57'N. LONG. 79°00'W. TIME 08
 DEPTH 823 WIND 3, 16 BAR. 17 AIR TEMP: dry 26.7°C, wet 24.4°C
 HUMIDITY 83% WEATHER 02 CLOUDS: type -, amt. 7 SEA: dir. 16, amt. 1
 SWELL: dir. 02, amt. 1 VIS. 6 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 27.11 | 35.84 | 23.34 | 4.52 |
| 10 | 27.13 | 35.81 | 23.31 | - |
| 20 | 27.12 | 35.86 | 23.35 | 4.50 |
| 50 | 26.49 | 36.08 | 23.71 | 4.66 |
| 100 | 23.63 | 36.63 | 25.00 | 4.72 |
| 150 | 21.58 | 36.73 | 25.67 | 4.64 |
| 200 | 19.98 | 36.68 | 26.07 | 4.50 |
| 300 | 18.45 | 36.58 | 26.39 | 4.47 |
| 400 | 17.03 | 36.36 | 26.57 | 4.26 |
| 500 | 15.23 | 36.06 | 26.75 | 3.88 |
| 800 | 6.94 | 34.97 | 27.42 | 3.16 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 27.11 | 35.84 | 23.34 | 4.52 |
| 10 | 27.13 | 35.81 | 23.31 | 4.50 |
| 20 | 27.12 | 35.86 | 23.35 | 4.50 |
| 30 | 27.00 | 35.91 | 23.42 | 4.53 |
| 50 | 26.49 | 36.08 | 23.71 | 4.66 |
| 75 | 25.18 | 36.40 | 24.36 | 4.71 |
| 100 | 23.63 | 36.63 | 25.00 | 4.72 |
| 150 | 21.58 | 36.73 | 25.67 | 4.64 |
| 200 | 19.98 | 36.68 | 26.07 | 4.50 |
| 250 | 19.05 | 36.63 | 26.27 | 4.48 |
| 300 | 18.45 | 36.58 | 26.39 | 4.47 |
| 400 | 17.03 | 36.36 | 26.57 | 4.26 |
| 500 | 15.23 | 36.06 | 26.75 | 3.88 |
| 600 | 13.00 | 35.69 | 26.95 | 3.45 |
| 700 | 10.61 | 35.33 | 27.12 | 3.03 |
| 800 | 6.94 | 34.97 | 27.42 | 3.16 |

STATION Special 9

OBSERVED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 1 | 1.4 | 0.4 | <0.5 | 1.1 | 1.1 |
| 10 | 3.2 | 3.3* | 0.5 | 1.1 | 0.8 |
| 20 | 1.5 | 0.1 | 0.5 | 0.0 | 1.8 |
| 50 | 1.7 | 0.4 | <0.5 | 1.8 | 1.6 |
| 100 | 4.8 | 3.9 | 1.5 | 0.0 | 1.7 |
| 150 | 2.0 | 2.0 | 1.5 | 1.9 | 1.0 |
| 200 | 2.0 | 1.5 | - | 0.0 | 0.6 |
| 300 | 1.5 | 0.7 | 1.5 | 0.1 | 0.4 |
| 400 | 1.5 | 1.3 | 2.0 | 2.1 | 1.9 |
| 500 | 1.9 | 1.9 | 0.5 | 2.3 | 0.2 |
| 700 | 3.6 | 2.6 | 0.5 | 0.7 | 0.2 |
| 800 | - | 3.4 | 25.5 | 1.1 | 1.0 |

* Value questionable

INTERPOLATED

| DEPTH (m) | TOTAL P ($\mu\text{g at/l}$) | $\text{PO}_4\text{-P}$ ($\mu\text{g at/l}$) | $\text{NO}_3\text{-NO}_2$ ($\mu\text{g at/l}$) | ARABINOSE (mg/l) | TYROSINE (mg/l) |
|--------------|-----------------------------------|--|---|---------------------|--------------------|
| 0 | 1.4 | 0.4 | <0.5 | 1.1 | 1.1 |
| 10 | 3.2 | 0.3 | 0.5 | 1.1 | 0.8 |
| 20 | 1.5 | 0.1 | 0.5 | 0.0 | 1.8 |
| 30 | 1.6 | 0.2 | 0.5 | 0.6 | 1.7 |
| 50 | 1.7 | 0.4 | <0.5 | 1.8 | 1.6 |
| 75 | 3.3 | 2.2 | 1.0 | 0.9 | 1.7 |
| 100 | 4.8 | 3.9 | 1.5 | 0.0 | 1.7 |
| 150 | 2.0 | 2.0 | 1.5 | 1.9 | 1.0 |
| 200 | 2.0 | 1.5 | 1.5 | 0.0 | 0.6 |
| 250 | 1.8 | 1.1 | 1.5 | 0.1 | 0.5 |
| 300 | 1.5 | 0.7 | 1.5 | 0.1 | 0.4 |
| 400 | 1.5 | 1.3 | 2.0 | 2.1 | 1.9 |
| 500 | 1.9 | 1.9 | 0.5 | 2.3 | 0.2 |
| 600 | 2.6 | 2.3 | 0.5 | 1.5 | 0.2 |
| 700 | 3.6 | 2.6 | 0.5 | 0.7 | 0.2 |
| 800 | - | 3.4 | 25.5 | 1.1 | 1.0 |

STATION Tongue of the Ocean 1

DATE June 18, 1954 LAT. 23°40'N. LONG. 76°50'W. TIME 22
 DEPTH 1353 WIND 3, 12 BAR. 13 AIR TEMP: dry 28.3°C, wet 25.6°C
 HUMIDITY 80% WEATHER 03 CLOUDS: type 2, amt. 8 SEA: dir. 12, amt. 1
 SWELL: dir. -, amt. 1 VIS. 9 WATER TRANS. -

OBSERVED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 1 | 28.25 | 36.55 | 23.50 | 4.62 |
| 10 | 27.38 | 36.50 | 23.75 | 4.64 |
| 50 | 25.57 | 36.82 | 24.56 | 4.86 |
| 100 | 24.03 | 36.81 | 25.02 | 4.70 |
| 200 | 22.22 | 36.76 | 25.51 | 4.21 |
| 400 | 16.70 | 36.26 | 26.57 | 3.94 |
| 600 | 12.00 | 35.61 | 27.08 | 3.47 |
| 800 | 8.49 | 35.18 | 27.36 | 3.65 |
| 1000 | 5.40 | 35.03 | 27.67 | 5.13 |
| 1100 | 4.87 | 35.01 | 27.72 | 5.40 |
| 1200 | - | 34.99 | - | - |
| 1300 | 4.25 | 34.99 | 27.77 | 5.55 |

INTERPOLATED AND CALCULATED

| DEPTH (m) | T (°C) | S (‰) | σ_t | O ₂ (ml/l) |
|--------------|-----------|----------|------------|--------------------------|
| 0 | 28.25 | 36.55 | 23.50 | 4.62 |
| 10 | 27.38 | 36.50 | 23.75 | 4.64 |
| 20 | 26.88 | 36.61 | 23.99 | 4.72 |
| 30 | 26.41 | 36.70 | 24.21 | 4.79 |
| 50 | 25.57 | 36.82 | 24.56 | 4.86 |
| 75 | 24.75 | 36.82 | 24.81 | 4.79 |
| 100 | 24.03 | 36.81 | 25.02 | 4.70 |
| 150 | 23.20 | 36.80 | 25.26 | 4.43 |
| 200 | 22.22 | 36.76 | 25.51 | 4.21 |
| 250 | 20.97 | 36.68 | 25.80 | 4.16 |
| 300 | 19.68 | 36.58 | 26.07 | 4.10 |
| 400 | 16.70 | 36.26 | 26.57 | 3.94 |
| 500 | 14.20 | 35.91 | 26.86 | 3.62 |
| 600 | 12.00 | 35.61 | 27.08 | 3.47 |
| 800 | 8.49 | 35.18 | 27.36 | 3.65 |
| 1000 | 5.40 | 35.03 | 27.67 | 5.13 |
| 1200 | 4.50 | 34.99 | 27.75 | 5.50 |

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